

Yearbook 2023

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Dear readers,

The TU Dortmund University Yearbook annually provides a look back at the events that shaped university life in the previous year. Whether in research or teaching, on campus or in the field of sustainability, transfer or activities of the Ruhr University Alliance – gain an overview of the various areas of our university and find the most important facts and figures directly on the individual topics.

In terms of world politics, 2023 is probably be remembered as a year of crises. In view of the conflicts and wars that have escalated, we are all the more grateful that there is a peaceful and respectful coexistence of people from around 130 nations on our campus. According to the **student statistics**, there were more young people of international origin enrolled at TU Dortmund University than ever before in the winter semester of 2023/24 – namely exactly 5,347. This means that around 17.7 percent of our total of 30,300 students have a foreign passport. The number could continue to rise in the coming years through the expansion of our **English-language Master's degree programs**.

The **Diversity Month of May**, with its numerous events, also demonstrated how diverse TU Dortmund University is. In the Rectorate, we have strengthened the topic of diversity with the **new Vice President**, Prof. Petra Wiederkehr. In addition, a central advisory office for the protection against discrimination and sexualized violence, **SchuDS** for short, was set up.

Two colleagues are available here as contact persons and raise awareness in their daily work. We will all continue to resolutely oppose discrimination of any kind, whether on the grounds of origin, religion, gender, sexual orientation or physical or mental disability.

The year 2023 was eventful in research and teaching: ChatGPT has found its way into everyday study life, and TU Dortmund University was one of the first universities nationwide to provide a handout on dealing with AI language models in teaching. Our astrophysicists have made a breakthrough in their research using machine learning methods and have for the first time detected **neutrinos from our Milky** Way. The IGLU study on the declining reading comprehension of primary school children in Germany, which was conducted by the Center for Research on Education and School Development, also attracted widespread public interest. In the UA (University Alliance) Ruhr, we have further expanded joint top-level research in four Research Centers and one College and have filled 14 of the 50 professorships by the end of the year, including one **Humboldt Professorship** at TU Dortmund University. A participation process has been launched for the further development of our research strategy.

Since the winter semester of 2022/23, researchers have been promoting networking within TU Dortmund University at the new research center TU Dortmund University – Center for Data Science and Simulation, **DoDaS** for short. A new event format is intended to

intensify contacts with industry: we were already able to discuss the challenges of the circular economy and the hydrogen sector with company representatives at the first two **Future Dialogues**. As part of the *Initialzündung* (Initial Spark) lecture series, we welcomed two **Nobel laureates** to the campus in 2023. At the end of the year, the well-known science journalist **Dr. Mai Thi Nguyen-Kim** was also a guest at the *Die Wissensmacher* (The Knowledge Makers) lecture series.

With the relocation of one million books, preparations for the new construction of our university library also began on the campus in the summer. In the coming years, a new central service, learning and meeting place is created on the same site.

Learn more about the events in 2023 on the following pages.

Yours sincerely,

Prof. Manfred Bayer

Taumal Jayer

in July 2024

The Rectorate of TU Dortmund University: President Prof. Manfred Bayer (3rd from right) with Vice President Finance Prof. Gerhard Schembecker, Vice President Research Prof. Nele McElvany, Vice President Diversity Prof. Petra Wiederkehr, Vice President Academic Affairs Prof. Wiebke Möhring, and Vice President International Affairs Prof. Tessa Flatten (from left to right).



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January | Strategy and research council

New Committee Begins Its Work



The newly appointed Strategy and Research Council gathers for its first meeting at the beginning of the year. The body, which consists of highly experienced and internationally renowned TU Dortmund University scientists, advises the Rectorate - in particular the President and the Vice President Research - on research strategy issues. The professors appointed

to the Council bring in their many years of expertise in research and represent the breadth of disciplines at TU Dortmund University: Martin Faulstich, Michael ten Hompel, Jürgen Howaldt, Gudrun König, Thomas Rauschenbach, Jakob Rehof, Ute Ritterfeld, Gabriele Sadowski, A. Erman Tekkaya, Herbert Waldmann and Johannes Weyer.

2023 | Principles

Principles for Good Science and Best Care

Two papers summarize important foundations at TU Dortmund University: In autumn, the Rectorate adopted the new principles for good doctoral supervision, which include, for example, regular exchange and the promotion of scientific independence. In addition, the rules of good scientific practice are revised in December and adapted to the DFG's (German Research Foundation's) guidelines. In particular, structural aspects is now taken into account more strongly.

2023 | Funding opportunities

Support for Researchers in **Early Career Phases**

TU Dortmund University is launching new offers: Through the tu.hosts program, doctoral researchers can receive up to 4,000 euros in funding to invite top researchers from international institutions for lectures and events, thus strengthening their worldwide network. Advanced scientists who are already on the verge of becoming professorships after substantial third-party funding acquisitions will benefit from the new fuTUre support program.

November | Research strategy

Shaping Optimal Framework Conditions for Excellent Research Together

Center, the Rectorate presented the new TU Dortmund University Research Strategy 2023-2027 to the of the presented goals. university community in front of around 150 TU Dortis developed in order to create the best possible conon the university's strengths. For this purpose, central goals were defined and published in a "living" document together with potential measures and indicators that can be continuously adapted

"With the help of a structured and strategically focused process, we can further develop research at our university and make it more visible internationally," says Prof. Nele McElvany, Vice President Research. In a broad participation process that will run until June

In an information event in the International Meeting 2025, actors from research, teaching and administration as well as students can participate in the shaping

In three different workshop phases, the participating mund University members: The strategic framework TU Dortmund University members dedicate themselves to the six defined goals for six months each: ditions for excellent research performance, building The first half year focuses on the content-related goals of outstanding research, internationalization, and evaluation and monitoring. This is followed by a focus on the recruitment and promotion of scientists, research-oriented teaching, and research infrastructure in the second phase. The last phase focuses on the institutional goals of diversity, quality management, and transfer and science communication.



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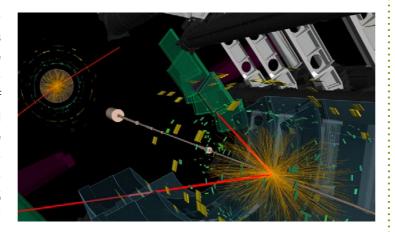
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March | BMBF project

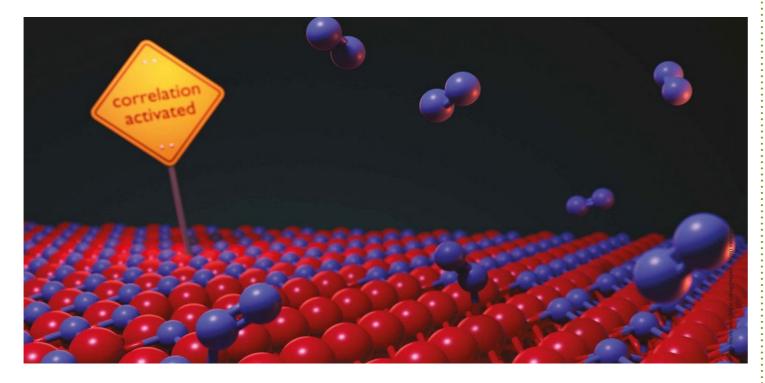
New Algorithms for Particle Physics

The Federal Government is funding an interdisciplinary network project in which the teams of physics professors Kevin Kröninger and Wolfgang Rhode from TU Dortmund University are involved. In the project "Artificial Intelligence for the Fast Simulation of Scientific Data", researchers are developing Al-based simulation methods. This is intended to enable the huge amounts of data from particle and astro-particle physics to be evaluated more quickly and efficiently in the future. Half a million euros of the 3.5 million euros in funding over three years will go to TU Dortmund University.



January | Publications in Advanced Materials

Physicists Investigate Magnetic Phenomena



The team led by Prof. Mirko Cinchetti has published two articles in the specialist journal Advanced Materials. The TU Dortmund University physicists are investigating magnetic phenomena on ultrafast timescales and want to specifically manipulate the magnetic and electronic properties of new materials with light. Their research forms the basis for numerous possible

applications - from information technology to spintronics. A publication deals with hybrid interfaces, which the group has investigated experimentally and with simulations with an international team. Another publication presents new findings on an antiferromagnetic Van der Waals semiconductor (FePS3).



June | Publication in Science

Neutrinos from the Milky Way Detected



An international consortium has been able to detect been predicted that neutrinos should be detectable neutrinos from our Milky Way for the first time using from the Milky Way. However, because the Milky Way the IceCube detector at the South Pole. The researchers present their results in the specialist journal Science. Prof. Wolfgang Rhode and his doctoral student The breakthrough is achieved through the application Mirco Hünnefeld from the Department of Physics are significantly involved in the publication. It had already mund University.

is a weak neutrino source, the neutrino signal had to be painstakingly extracted from the general noise. of machine learning methods developed at TU Dort-

September | Publication PRX Quantum

Behavior of Anti-ferromagnets Modeled

The team led by Prof. Götz S. Uhrig (left) has developed a model that can better predict the behavior of anti-ferromagnets in magnetic fields than was previously possible. This is of interest because the materials could be used for spin-based data storage. The group publishes the results in the specialist journal PRX Quantum. The publication is based on the Master's thesis of Katrin Bolsmann (center), and Dr. Asliddin Khudoyberdiev (right) from the Condensed Matter Theory division at the Department of Physics is also involved.



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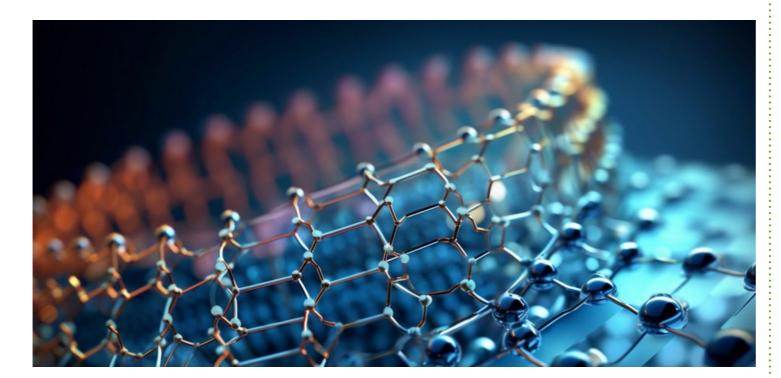
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December | Publication Nature Communications

Reactions in the Solid Body Controlled



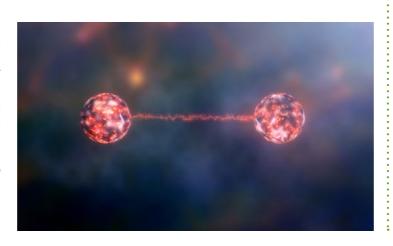
Physicists from TU Dortmund University, together with cooperation partners from Harvard, have succeeded for the first time in controlling chemical reactions in a complex semiconductor system. This is particularly important for future applications of nanomaterials. The team led by Prof. Marc Aßmann publishes its findings in the specialist journal *Nature Communications*.

The researchers illuminated a semiconductor crystal with tailored laser light to generate so-called Rydberg excitons. With this, they were able to demonstrate for the first time that the reaction of excitons with defects in the crystal can be specifically controlled – and thus interference fields can be neutralized in a targeted manner.

May | Funding by the VolkswagenStiftung

Molecular Design for Quantum Technologies

Photons serve as the basis for novel quantum technologies such as quantum computers or ultra-secure data lines. However, their information linkage is still very complex. Prof. Andreas Steffen from the Department of Chemistry and Chemical Biology wants to change this and, together with his team, produce entangled 2-photon sources through molecular design. With around 800,000 euros over four years, the *VolkswagenStiftung* (VolkswagenFoundation) is funding his project "Molecular Entangled 2-Photon-Sources" as a "High Risk – High Gain" project.





23 June | Department od Physics

50th Anniversary Celebration



The Department of Physics is catching up on its golden anniversary celebrations from the Corona year 2020. Former and active members recall the founding in 1970 and milestones of development: including (from left to right) Prof. Metin Tolan, President Prof. Manfred Bayer, the new honorary doctor Prof. Helmut Dosch with his wife, Prof. Joachim Treusch – one of the first

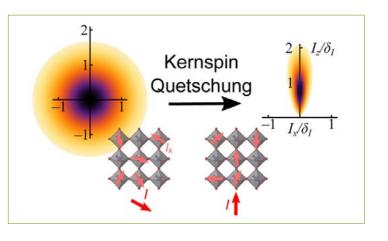
professors of the department – and Dean Prof. Kevin Kröninger. Since its foundation, physics has strived for high internationalization: Over time, research collaborations have been established with CERN in Geneva, the MAGIC telescopes on La Palma or IceCube at the South Pole. From October onwards, the Master's degree programs are also to be offered in English.



November | Publication in Nature Communications

Dark Nuclear Spin State Demonstrated

Quantum mechanical states of many particles are more robust to disturbances than single-particle states. Over 20 years ago, a special multi-particle state was already theoretically predicted: The "dark nuclear spin state" is created by irradiation with laser light, but becomes immune to illumination and thus dark after its formation. Together with an international team, the group led by Prof. Manfred Bayer has succeeded in experimentally demonstrating this state – and publishing the findings in *Nature Communications*.



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June | Horizon Europe program

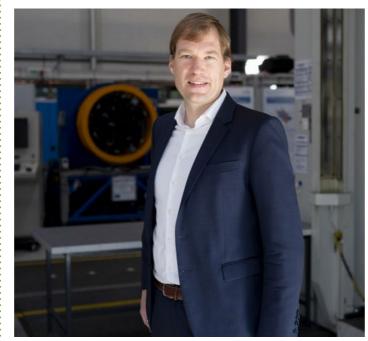
EU Funds Project on Self-healing Batteries



With around 5.8 million euros over four years, the EU is funding the "HealingBat" project. Prof. Stefan Palzer from the Department of Electrical Engineering and Information Technology is coordinating the project, in which ten partners from six European countries want to jointly develop a new generation of batteries that can repair themselves.

May | Research award

Dr. Till Clausmeyer Receives the Karl Kolle Award 2023



With an honorary medal and funding of 10,000 euros, the Working Group on Forming Technology awards Dr. Till Clausmeyer from the Department of Mechanical Engineering: The Senior Engineer at the Institute for Forming Technology and Lightweight Construction receives the Karl Kolle Award 2023 for his many years of research in the field of forming technology.

May | Circular economy

Making the Automotive Industry More Sustainable



The aim of the "DIONA" project, which is being funded by the German government with 3.3 million euros over three years, is to create low-threshold access to a circular value chain in the automotive industry. It is headed by Prof. Boris Otto and his team from the Chair of Industrial Information Management at the Department of Mechanical Engineering under the title "Dig-

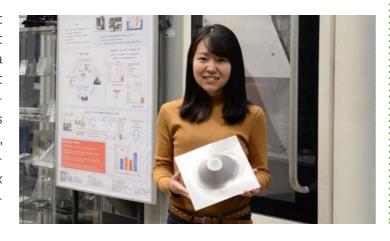
ital Ecosystem for a Sustainable Circular Economy in the Automotive Industry". DIONA is overseeing twelve joint projects that are developing innovative system solutions with companies for more sustainable and circular production and use of vehicles. The TU Dortmund University team supports the projects with a Digital Hub.



July | Incremental forming

Humboldt Fellow from Japan Researches at IUL

Dr. Shiori Gondo from Japan is conducting research at the Institute for Forming Technology and Lightweight Construction (IUL), headed by Prof. A. Erman Tekkaya at the Department of Mechanical Engineering, as part of an Alexander von Humboldt fellowship. The fellowship enables highly qualified international postdocs to conduct research stays in Germany. In her project, Gondo is researching incremental forming, a method for producing metal components with complex shapes. She is investigating how damage occurs during this process and how it can be contained.



October | DFG research group

Basic Research for More Efficient Heat Pumps

The *DFG* (German Research Foundation) has decided to establish the new research group "Archimedes" at TU Chemnitz and will fund it with around four million euros from 2024 onwards. Prof. Andreas Brümmer from the Department of Mechanical Engineering is the co-speaker of the new group. In the project, scientists from seven universities will for the first time develop an easy-to-use calculation model for oil-refrigerant mixtures that are used in refrigeration and air conditioning technology. The basic research is intended to contribute to the development of more efficient heat pumps.



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February | NMR Spectroscopy

ERC Grant for Prof. Rasmus Linser



The European Research Council (ERC) is funding the methods to improve biomolecular NMR spectroscopy research of Prof. Rasmus Linser from the Department of Chemistry and Chemical Biology with around two million euros over five years. From around 2,200 applications, the biophysicist's research project is selected for one of the coveted ERC Consolidator Grants: In his "bypassNMR" project, he and his team are developing

in order to be able to research large and complex proteins in the future: NMR stands for Nuclear Magnetic Resonance. The ERC supports outstanding researchers with innovative and promising ideas with the Consolidator Grant.

2023 | Two publications in Nature Communications

Porous Glasses and Breathing Liquids Explored

Prof. Sebastian Henke from the Department of Chemistry and Chemical Biology publishes two papers in Nature Communications. The first article deals with the measurement of the porosity of MOF glasses, i.e. glasses made of metal-organic framework compounds. The results are of interest for applications of such glasses in membranes for gas separation. The second publication presents new synthetic liquids with an extraordinary gas saturation behavior that could be used in gas purification.



April | Two publications in Nature Communications

On the Role of the Environment in : the Origin of Life

The team of Prof. Hannes Mutschler from the Department of Chemistry and Chemical Biology is investigating how external environmental influences could have determined the temporal timing of reproduction in early forms of life. A publication shows that the spread of self-replicating RNA molecules in simple "protocells" is made possible by freeze-thaw cycles. A second article presents an experimental approach for the protein-free copying of genetic sequences.

June | Publication in Nature

Chemists Develop New Approach to Cancer Therapy

The cancer gene MYC drives the uncontrolled growth of many human cancers. In an international team, Prof. Herbert Waldmann from the Department of Chemistry and Chemical Biology was able to develop substances inspired by nature that cut the RNA of MYC and thus deactivate the cancer gene. This approach to RNA degradation could also help in the development of new therapies for other diseases. The findings are published in Nature.



December | Publication in Nature Communications

Mechanism of Cell Migration Deciphered



A research group led by Dr. Leif Dehmelt (right) and Suchet Nanda (left) from the Department of Che- help to better understand the metastasis of cancer. mistry and Chemical Biology publishes surprising results on cell migration in the specialist journal *Nature* Communications. The team was able to show that the of Duisburg-Essen, cooperation partners from Umeå coupling of two signaling molecules from the group of Rho GTPases controls whether cells move in a tar-

geted or uncontrolled manner. These findings could In addition to Dr. Leif Dehmelt from TU Dortmund University and Prof. Perihan Nalbant from the University University in Sweden were also involved in the re-

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March | Statement

Further Development of Environmental Statistics

The Deutsche Arbeitsgemeinschaft Statistik (German Working Association Statistics), headed by Prof. Katja Ickstadt from TU Dortmund University, calls for an urgently needed further development of environmental statistics in a statement. Reliable data and efficient statistical methods are to be used to accelerate environmental policy decisions: The interrelationships of the climate crisis are global, complex and difficult to predict. Public debates and political actors therefore need more than ever before reliable facts and methods.



September | EU project LAND4CLIMATE

Research for a Climate-resilient Europe

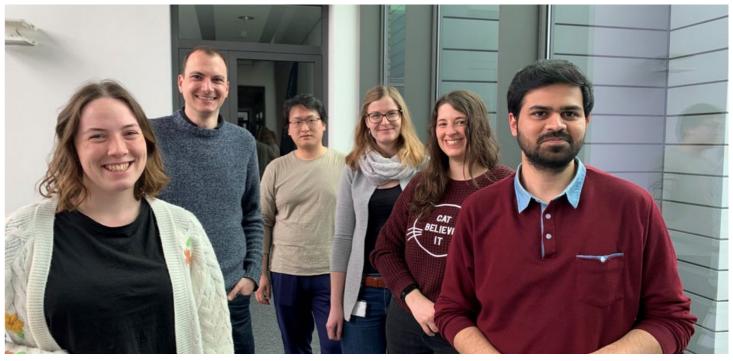


The LAND4CLIMATE research project investigates how Europe can systematically become more climate-resilient through nature-based solutions. Led by TU Dortmund University, the international consortium is working to use private land and areas for climate adaptation measures and thus reduce climate risks. In Germany, TU Dortmund University is primarily con-

ducting research in the Euskirchen district. Prof. Stefan Greiving, Head of the Institute for Spatial Planning, and Prof. Thomas Hartmann from the Department of Land Policy, Land Management and Municipal Surveying are primarily responsible for LAND4CLIMATE. The project with 16 partners from six European countries is funded by the EU with 13 million euros.

August | Publication in Nature Chemical Biology

New Insights in Proteins Gained



The Emmy Noether junior research group of Dr. Malte of the ubiquitin system, which is known to mark oth-Gersch (2nd from left) at the Department of Chemistry and Chemical Biology has developed a chemical toolbox that provides insights into the function of the special protein Fubi. The scientists publish their work in the specialist journal Nature Chemical Biology. The results show the molecular entanglement

er proteins for degradation, with the previously less well-researched Fubi system. Together with the newly developed chemical-biological toolbox, this can also expand our understanding of Fubi as a protein modification in cellular processes.

October | Study with MS patients

How Exercise Affects the Immune System

The team of Prof. Philipp Zimmer from the Department of Sports and Sports Science is investigating how intensive exercise affects the immune system and well-being of people with multiple sclerosis (MS). For a study, the team is looking for people with relapsing-remitting MS between the ages of 18 and 50 who will complete a 12-week intensive interval training program on a bicycle ergometer. Previous studies have shown that exercise can alleviate MS symptoms and improve quality of life.



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August | Change of perspective

New Insights into the Explainability of Al



A study by Prof. Christian Janiesch from the Department of Computer Science challenges a common assumption in AI research: "The more powerful the method, the harder it is to explain." Using tests with medical image diagnostics, he and his colleagues were able to show that doctors found individual Al analyses to be partly better and partly worse than

previously assumed on the basis of mathematical and programmatic considerations. The new socio-technical approach made it possible to consider the explainability of Artificial Intelligence from a real-world practice perspective. The paper is published in the International Journal of Information Management.

Summer semester | Emmy Noether Group

Understanding Artificial Intelligence Philosophically

A new Emmy Noether Group in philosophy of science is researching how artificial intelligence influences research. Headed by Junior Prof. Florian Boge from the Department of Humanities and Theology, the group is also collaborating with particle physics and the Lamarr Institute for Machine Learning and Artificial Intelligence. The research project entitled "Scientific Understanding and Deep Neural Networks" will receive around 700,000 euros from the Deutsche Forschungsgemeinschaft (German Research Foundation) over three years.



March | State funding

Dr. Daniel Horn Receives Funding as Al Starter

The NRW Ministry of Culture and Science is funding Dr. Daniel Horn from the Department of Statistics with around 175,000 euros. The goal of his project "Efficient Multi-objective Hyper-Parameter Tuning of Machine Learning Methods" is to improve the training of AI models: Daniel Horn wants to be able to optimize them not only with regard to one criterion such as being as error-free or as fast as possible – but also to reconcile several and actually contradictory requirements.



April | Study

ChatGPT Shows Progressive Attitudes



vestigate whether the chatbot ChatGPT is politically biased. They have also taken a closer look at its "character traits". The results show a tendency towards progressive political attitudes in the chatbot's responses. The study involved Jérôme Rutinowski from the Department of Mechanical Engineering and Prof.

Dortmund researchers have used various tests to in- Markus Pauly from the Department of Statistics, as well as researchers from the Research Center Trustworthy Data Science and Security at the University Alliance Ruhr and the Lamarr Institute for Machine Learning and Artificial Intelligence. The study is published in the journal Human Behavior and Emerging Technologies.

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Winter semester | Video series

What Makes Artificial Intelligence Trustworthy

In the video series "Paths to an Al We Can Trust," TU Dortmund University researchers explain quality characteristics for Artificial Intelligence in an understandable way. They emphasize how certain factors such as fairness, robustness, transparency or reliability can help to strengthen trust in applications. They also want to contribute to a more objective discussion of the risks associated with intelligent systems. The videos can be found on YouTube, social media channels and an own website.



November | Project InVirtuo 4.0

Knowledge Gain in Virtual Spaces



With the joint project "InVirtuo 4.0", researchers from Bonn and Dortmund want to establish experimental research in virtual environments as a new interdisciplinary research profile. For many virtual experiments, subjects slip into an avatar - a virtual copy of themselves, which they then perceive through VR

ment of Computer Science at TU Dortmund University contributes his avatar expertise to the project. The funding decision for three million euros over three years is presented to the consortium of computer science, media studies, ethics, neuroscience, behavioral research and psychiatry by NRW Minister glasses. Prof. Mario Botsch (left) from the Depart- of Culture and Science Ina Brandes (2nd from left).

November | Project k-Radiomics

Optimizing the Evaluation of MRT Images



Scientists from the Medical Faculty of the University funded by the Bruno and Helene Jöster Foundation of Duisburg-Essen and physicists from TU Dortmund University are launching the joint research project "k-Artificial Intelligence and machine learning to better evaluate MRT images in the future and thus better characterize tumors and tissue. The project is being

with around 2.6 million euros over five years. The Dortmund group led by Prof. Kevin Kröninger is responsible Radiomics". The team is developing new methods of for special machine learning methods in the project: so-called generative neural networks that can process the complex raw data of MRTs.

19 July | Campus visit

Summer of Artificial Intelligence

On the last stop of his tour of the German AI competence centers, Mario Brandenburg, Parliamentary State Secretary at the Federal Ministry of Education and Research, visits the Lamarr Institute for Machine Learning and Artificial Intelligence in Dortmund. Together with the State Secretary in the NRW Ministry of Culture and Science, Gonca Türkeli-Dehnert, he gains an overview of a wide range of research and education projects as well as innovative AI applications for business and society.



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14 April | DoDaS

Interdisciplinary Research Center Opens



In the natural, engineering, and social sciences, dealing with large amounts of data is part of everyday life. Scientists from various faculties and departments at TU Dortmund University, where (simulation) data is their strengths and further develop them together: in the new research center "TU Dortmund University -

Center for Data Science and Simulation", or DoDaS for short. Researchers from mathematics, statistics, computer science, and the natural and engineering sciences are particularly involved. The management team generated and analyzed, are joining forces to bundle Prof. Katja Ickstadt (center), Dr. Alexander Munteanu (4th from right) and Prof. Stefan Turek (2nd from right) – celebrate the opening with around 100 guests.

18 December | TU Dortmund Young Academy

Research Award for Dr. Giulio Mattioli

At the Academic Annual Ceremony, the Rectorate honors Dr. Giulio Mattioli (center) from the Department of Spatial Planning with the Research Award of the TU Dortmund University Young Academy. He receives the award for an interdisciplinary and critical examination of the political economy of car dependency. In it, he illuminated the factors behind the increasing car ownership and use. The award jury emphasized the far-reaching reception of his work as well as its social, political and scientific relevance.



September | 400 experts

Statistics Week at the Campus

The annual conference of the Deutsche Statistische Gesellschaft (German Statistics Society) takes place at TU Dortmund University as the "Statistics Week 2023" on the occasion of the 50th anniversary of the Department of Statistics. The conference brings together experts from statistics, computer science, economics and the social sciences to exchange ideas on current research questions and the promotion of young researchers. Around 400 participants meet on campus, including representatives of the Federal Statistical Office and the statistical offices at municipal and state level.



9 September | Department anniversary

50 Years of Statistics at TU Dortmund University



Statistics. Statistics is celebrating its golden anniversary with a gala in the Goldsaal of the Westfalenhallen discipline uses statistical methods, the department has been strongly networked interdisciplinarily in

The Section of Statistics was opened at Dortmund both research and teaching since its beginnings. It University in 1973 – the birth of today's Department of has enriched research with major projects on statistical foundations, including two DFG graduate colleges and two special research areas. To this day, the Dortwith around 300 guests. Since almost every scientific mund department is the only independent faculty of statistics in the German-speaking world.

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April | BMBF funding

Designing MINT Teaching Digitally

Digital devices have long been purchased in many schools. But how can these be made usable for successful learning and how can teachers be trained accordingly? This is being researched by the competence network lernen: digital (learning: digitally), which is funded by the federal government with 200 million euros. Researchers from the Institute for the Development and Research of Mathematics Education are decisively involved in two projects in the MINT area as well as in a transfer center: Prof. Stephan Hußmann, Prof. Susanne Prediger and Prof. Christoph Selter.





16 May | IGLU study

Primary School Children Read Significantly Worse



Prof. Nele McElvany from the Center for Research on Education and School Development presents the latest results from the Progress in International Reading Literacy Study (PIRLS) in Berlin: In the past twenty years, the average reading competence of fourth-graders in Germany has fallen significantly. Around a quarter falls short of the level that would be necessary for

learning. Educational justice has not improved since the start of the study in 2001. IGLU tests reading competence in fourth grade in a 5-year cycle. In Germany, a total of 4,611 students took part in 2021. Internationally, around 400,000 students from 65 countries and regions participated.

15 June | IFS anniversary

Educational Science Made in Dortmund



The Center for Research on Education and School Deformer and active members look back on the development at the ceremony and exchange ideas on rewelcomes around 150 guests, including her predecessors Prof. Hans-Günter Rolff (2nd from right) and Prof. the performance of students.

Wilfried Bos (center). The IFS was founded in 1973 as velopment (IFS) is celebrating its golden anniversary: the first research institute of its kind at a University of Education (PH) in Germany. In 1980 it became part of the university and now belongs to the Department of search questions. Director Prof. Nele McElvany (left) Educational Sciences and Psychology. To this day, it has attracted great attention through its findings on

November | Study

How Lonely Young People in NRW Feel

Loneliness is widespread among young people in NRW and has probably intensified due to the Corona pandemic. This is the result of a study by researchers from the Ruhr University Alliance, which was carried out on behalf of the NRW State Chancellery and led by psychologist Prof. Maike Luhmann from Ruhr University Bochum. Prof. Ricarda Steinmayr from the Institute of Psychology at TU Dortmund University was also involved in the study: The data from the GLÜCK Studie (HAPPINESS Study), for which she is the spokesperson, were incorporated into the current study.



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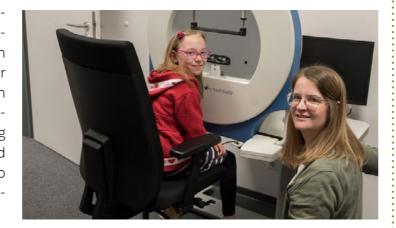
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Spring | Vision clinic for children

How Learning and Vision are Related

Scientists from the Subject Area Vision, Visual Impairments & Blindness of the Department of Rehabilitation Sciences, are investigating children's vision in a new Sehambulanz für Kinder (seki) (Vision Clinic for Children). In the first half of the year, eleven children are taking part in a study that examines the connection between learning difficulties and vision. Among them is nine-year-old Emilia (left), who is being tested by Carina Schücker (right). For families, the seki also offers individual counseling as part of an open consultation hour.



January | Research report

Challenges of Childcare in NRW



The research association between the *Deutsches Jugendinstitut e.V.* (German Youth Institute) in Munich and TU Dortmund University publishes a comprehensive report on childcare in North Rhine-Westphalia for the first time. The approximately 130-page work provides basic key figures on the childcare system in NRW and is based on state administrative data as well

as data from child and youth welfare statistics. The report shows that existing problems have continued to worsen in NRW despite the massive expansion of childcare in recent years: not enough places, too few qualified staff, inflexible care offers and not enough time for management tasks.

11 July | Ministerial visit

Technologies for the Future of Work

Hubertus Heil (left), Federal Minister for Labor and Social Affairs, visits the Chair of Material Handling and Warehousing of Prof. Michael ten Hompel (r.) and the Fraunhofer Institute for Material Flow and Logistics IML together with journalists. The focus is on technologies that will shape the cooperation between humans and Artificial Intelligence in the working world of the future: For example, the minister is controlling a bio-intelligent drone swarm at TU Dortmund University, which consists of 20 drones and imitates the behavior of a flock of birds.



September | Scientific cooperation

International Conference on Vocational Education in Bangkok



Prof. Thomas Schröder organizes the "Thai-German TVET Conference on Research Cooperation in Southeast Asia", together with partners. The holder of the UNESCO Chair for Vocational Education and Training at TU Dortmund University speaks in Bangkok about trends in technical and vocational education and training as well as current research on this topic.

August | Workshop

Lamarr Institute Brings Artificial Intelligence to Schools



High school students from a grammar school in Essen deal with Artificial Intelligence for two days. The Lamarr Institute for Machine Learning and Artificial Intelligence is conducting a workshop for the "AI4Schools" initiative, which provides insights into research on deep learning, neural networks, and machine learning.

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February | Funding by the VolkswagenStiftung

How Wealth is Inherited in Germany

Prof. Christian Neuhäuser from the Department of Humanities and Theology is involved in an interdisciplinary research project with scientists from the Free University of Berlin, which the *VolkswagenStiftung* (VolkswagenFoundation) is funding for four years with around 800,000 euros. In the project "The Deserving Rich", the team is analyzing using the example of Germany what justifications there are in general for wealth and specifically for its inheritance, and what narratives and paradigms have shaped the design of the inheritance tax system.





January | Project "SUBDENSE"

Investigating Densification in Suburbs



In the research project SUBDENSE, scientists at four universities and research institutes in Great Britain, Germany and France are dealing with suburban densification. The team is investigating how different land policy strategies and the interests and action logics of landowners and local actors influence each other. The project is funded with 1.2 million euros by interna-

tional research communities, of which 320,000 euros go to TU Dortmund University. SUBDENSE is based at the Department of Spatial Planning and runs for three years; the project is headed by Thomas Hartmann, Professor of Land Policy and Land Management.

February | Funding by the VolkswagenStiftung

Sociologists Research Rich Families



Prof. Nicole Burzan from the Department of Social Sciences is investigating wealth as a dynamic field of social relations together with Prof. Berthold Vogel from Göttingen. The *VolkswagenStiftung* (Volkswagen-Foundation) is funding the project "Wealth as a Social Relationship: Intergenerational Perspectives on the Familial (Re)Production of Wealth" with around

550,000 euros over three years. The focus is on the social network of family members with each other. The scientists will conduct qualitative family interviews and find out how wealth has arisen in the family and how it is further secured or is to be secured – for example through succession in family businesses.

May | Publication

On the Benefits and Harms of Entrepreneurial Investments

Junior Prof. Simon Hensellek from the Department of Business and Economics has investigated with colleagues from the University of Münster what effects entrepreneurial investments have on product safety. The team publishes the work in the specialist journal Entrepreneurship Theory and Practice. The results show that above all moderately sized investments in start-ups or strategic alliances can lead to an increased probability of a product recall.

Summer semester 2023 | Scholarships

Doctoral College in Social Sciences Starts

The doctoral college "New Challenges in Aging Societies" is starting at the Department of Social Sciences with the Center for Higher Education and the Department of Spatial Planning. The Hans Böckler Foundation will support twelve doctoral students with scholarships totaling around 600,000 euros over three years as part of the college. The young scientists are to research the challenges of demographic change in times of multiple crises.

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June | EU project CoMMPASS

Reporting in Sub-Saharan Africa



A project with universities and institutes from Portugal, Uganda, Malawi and Burkina Faso is starting under "Communicating Migration and Mobility - E-Learning Programs and Newsroom Applications for Sub-Saharan Africa", or CoMMPASS for short. The consortium, which the EU is funding with 800,000 euros in the ERASMUS

program, is meeting in Kampala, Uganda for the project kick-off. In terms of content, the project, which is headed the consortium leadership of TU Dortmund University: by Prof. Susanne Fengler from the Institute of Journalism, is about how media in countries of origin and transit in Sub-Saharan Africa report on mobility and migration. Among other things, the researchers are developing an online course for journalism education at universities.



January | Cooperation project COPE

Online Course on EU Cohesion Policy

Under the direction of Prof. Susanne Fengler (front), the Institute of Journalism is developing an online course on EU cohesion policy together with other universities and journalism institutes. The material is to be made available to all universities in the EU that train journalists in the respective national language. The project is funded by the European Commission with one million euros and is entitled "Covering Cohesion Policy in Europe – Training MOOC for European Journalism Students" (COPE).



July | Long-term study

How Journalism is Perceived

A representative survey by the Institute of Journalism with the opinion research institute forsa shows: Journalism is primarily located away from one's own party affiliation. Supporters of the CDU and AfD are more likely to have the image of a "green journalism", while SPD and Green supporters feel the opposite. The survey is part of the long-term study "Journalism and Democracy", in which the team around Prof. Michael Steinbrecher and forsa are investigating what expectations social groups have of journalism.



February | EU project GADMO

New Fact-checking Website Published



er Russian propaganda about the war in Ukraine or false claims about Corona – the fact-checkers of the Austria Press Agency (APA) offer current articles on Institute of Journalism.

A fact-checking platform helps citizens to recognize circulating false information on gadmo.eu. This is how false claims and disinformation more easily. Wheth- the largest freely accessible archive of German-language fact checks is created. The website is created as part of the EU project "German-Austrian Digital German Press Agency (dpa), the research network Media Observatory (GADMO)", which is headed by CORRECTIV, the Agence France-Presse (AFP) and the Prof. Christina Elmer and Stephan Mündges from the Research | Statistics

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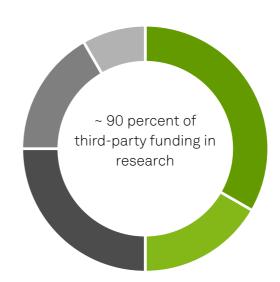


Outstanding Research

TU Dortmund University is a university strong in research. In total, there are 1,050 third-party funded projects.

Five Strong Profile Areas

TU Dortmund University's five scientific Profile Areas represent outstanding research fields. The competitive acquisition of third-party funding and prestigious international publications attest to their strength. These research priorities account for about 90 percent of funding



Data, Models and Simulations to Shape our Future

- From Elementary Particles to New Products along Value-added Network
- Innovations for Sustainability and Health
- Data, Models and Simulations to Shape our Future
- Educational and Labor Worlds of Tomorrow
- Society and Transformational Processes in the 21st Century

From Elementary Particles to New Products along Value-added Networks

The Profile Area brings together research on matter at different scales – from elementary particles to finished materials. Outstanding research activities by scientists at TU Dortmund University are dedicated to the study of matter in its various properties and different states of aggregation, using customized technologies and methods. Likewise, researchers in materials science and production engineering are driving innovations in the processing, shaping and future-oriented production of materials.

Innovations for Sustainability and Health Scientists at TU Dortmund University find solutions for sustainability and health in outstanding third-party funded and large collaborative projects. Interdisciplinary research supports the seminal topic of health through the development of active substances and drug delivery forms, radiotherapeutic innovations and advances in medical technology. New technologies in the natural sciences and engineering, energy management research and solutions for resource-conserving,

emission-reduced construction methods provide groundbreaking innovations for a sustainable future.

Researchers at TU Dortmund University are shaping our data-based future. Their outstanding research activities are characterized by the vision of not only developing and using digital technologies and data-driven research, but also driving them forward in a demand-oriented, safe and ethically responsible manner. In flagship projects, the course is set for the future use of machine learning and artificial intelligence in interaction with modern simulation techniques. The efficient and sustainable use of digital data in different sciences and groundbreaking technologies is what motivates researchers in interdisciplinary collaborative projects.

Educational and Labor Worlds of Tomorrow Investigating, shaping and further developing the educational and labor worlds of tomorrow is the focus of various high-profile research projects at TU Dortmund University. Our scientists cover the entire spectrum in their research – from studies on learning ability and cognitive development, to surveys on teaching and learning situations, or to interdisciplinary observations of changing work context.

Society and Transformational Processes in the 21st Century
Researchers at TU Dortmund University provide well-founded analyses and innovative solutions for the social and societal challenges of the 21st century in outstanding third-party funded projects. Research priorities range from fundamental questions about the structure, cohesion and transformation of societies to the conditions of social coexistence: Solidarity, age, sustainability and urbanity are just a few of the seminal topics to which scientists at TU Dortmund University

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devote their research.

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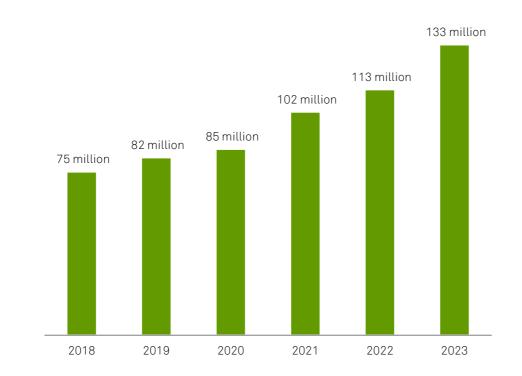
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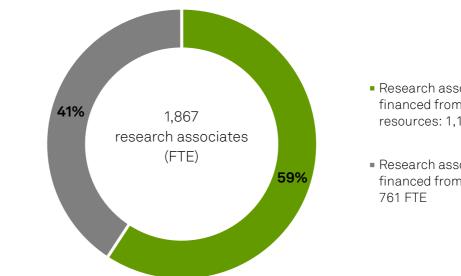
Third-Party Funds for Research

In 2023, TU Dortmund University secured third-party funds of around EUR 133 million, of which around four fifths are public money



Growing Third-Party Revenues

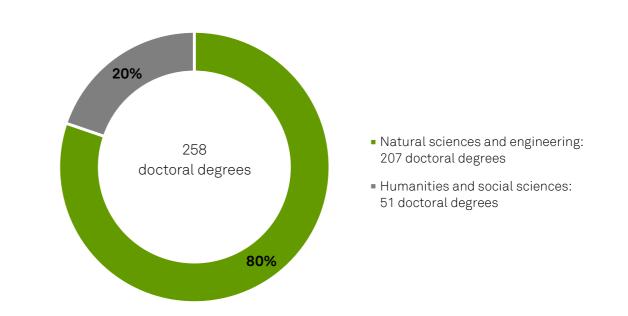
TU Dortmund University's third-party revenues have continuously increased in the past years.



- Research associate positions financed from budgetary resources: 1,106 FTE
- Research associate positions financed from third-party funds:

Hundreds of Jobs from Third-Party Funds

Around 40 percent of all research associate positions at TU Dortmund University are financed from third-party funds. This shows that the acquisition of third-party funds not only facilitates excellent research but also creates jobs in the region. (FTE = Full-Time Equivalents)



Early Career Researchers

Many scientists undertake a doctoral degree at TU Dortmund University. In the 2023 calendar year, 258 people completed their doctoral degrees, of which 90 women and 168 men.



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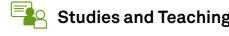
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December | Statistics

More First-year Students Than in the Previous Year



5,108 people are starting their studies at TU Dortmund University for the winter semester 2023/24 – that is 1.5 percent more than in the previous year. Even 8.9 percent more "Erstis" (first-year students) are starting their teacher training courses - exactly 1,358 people. In total, the university now has 30,277 students and, in line with the national trend, is below the pre-

vious year's value, but still at a high level. With 5,347 registrations, the proportion of international students is 17.7 percent, an increase of 1.7 percentage points. The English-language Master's programs, which TU Dortmund University offers partly in cooperation with University Alliance Ruhr, have grown to 15 courses and specializations for the winter semester.

Winter semester 2023/24 | ETIT

New Degree Programs for Sustainable Energy Systems

Providing a clean, safe and economical energy supply is one of the major social challenges of our time. The Department of Electrical Engineering and Information Technology (ETIT) is teaching the necessary skills with two new courses that it is setting up for the winter semester 2023/2024: the German-language Bachelor degree program "Sustainable Energy Systems" and the consecutive, English-language Master degree program "Sustainable Energy Systems".

April | Quality management

System Accreditation Successfully Prepared

TU Dortmund University Is allowed to accredit its degree programs itself in the future: With its seal, the Accreditation Council certifies TU Dortmund University that it has established a functioning quality management system to be able to evaluate and certify its own courses itself. To do this, the courses must go through the university's own quality management system. The seal is valid for eight years and allows more freedom in the further development o studies and teaching.

9 October | Kick-off

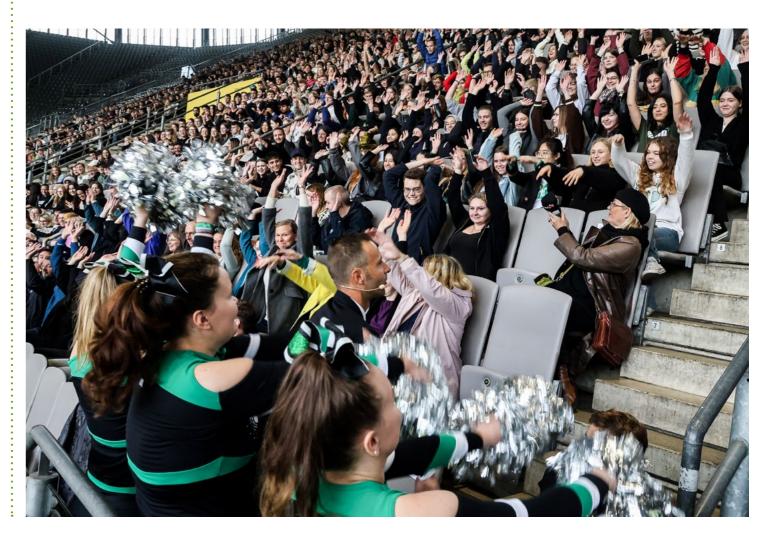
Kick-off for the New Academic Year at TU **Dortmund University in the Signal Iduna Park**

welcomes a large part of the around 5,100 new firstyear students to the Borussia Dortmund (BVB) stadium with a varied program and a joint La Ola wave. Together with the city, the theater, the opera, the AStA (General Students' Committee), the student union and BVB, the university is ringing in the new academic

TU Dortmund University President Prof. Manfred Bayer warmly welcomes the "Erstis" (first-year students): "I wish you all the best, much success in your studies and that you find great friendships that will last a lifetime." Lord Mayor Thomas Westphal also welcomes the freshmen to Dortmund with warm words. The AStA (General Student Committee) chairpersons Sarah Toepfer and Raphael Martin are happy to see

At the start of the semester, TU Dortmund University their new fellow students gathered in person. Christoph Edeler, Head of University Sports, moderates the event. The cello guartet of the Philharmonic Orchestra accompanies the welcome ceremony for the firstyear students with music and Mandla Mndebele from the opera sings the football anthem "You'll never walk alone", which sounds in the stadium before every BVB home game.

> Johannes Zedel from the Student Services Organization and surprise guest Marcel Schmelzer, a former Borussia Dortmund player, draw three first-year students together in a raffle. Traditionally, Prof. Manfred Bayer gives the symbolic starting signal for the semester and kicks a football signed by the BVB squad up into the stands, which a lucky winner catches from the air to applause.



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January | Germany scholarship

Students Meet Their Sponsors



Private donors and companies are supporting 228 TU Dortmund University students within the framework of the Germany Scholarship. After the Corona break, the scholarship recipients can once again meet their sponsors personally at the scholarship ceremony. The scholarship holders receive at least 300 euros per month for two semesters or more – 150 euros from the federal government and 150 euros from the donors.

At the ceremony in the Westfälischer Industrieklub (Westfalian Industry Association), two awards were also presented to committed TU Dortmund University students: The Martin Schmeißer Medal for outstanding theses with international relevance was awarded to chemical engineering student Luisa Evering, and the Soroptimist Advancement Award went to mechanical engineering student Annika Wisniewski.

August | Psychological counseling

Joint Action Days "(We) Care for You!"

Study doubts, exam anxiety or private worries - there can be some challenges during studies. The psychological counseling centers of TU Dortmund University and the University of Applied Sciences and Arts Dortmund as well as the Student Services Organization therefore offer action days with free workshops and lectures. (From left to right) Inga Heinz-Fischer from the Student Services Organization, Melanie Buschmann from the TU Dortmund University and Sandra Hans from the University of Applied Sciences and Arts Dortmund are also involved.



May | Industrial Engineering and Business Administration and Economics

Top Places in the CHE University Ranking



In the ranking of the Center University Development (CHE), the TU Dortmund University Bachelor's degree CHE compared around 40 German universities that offer the program. The Dortmund program is the only one to be among the top group in all three pre-selected main categories - general study situation, sup-

port at the beginning of studies and contact to professional practice. The Bachelor's degree program in program in Industrial Engineering is ranked first. The Business and Economics is also among the best in three categories. The Department of Business and Economics also impresses in terms of young talent promotion: No other university scores better in terms of the number of doctorates per professor.

Winter semester 2023/24 | Against teacher shortage

Peer Mentoring Supports Teacher Trainees

Peer mentoring in teacher training is entering its second round after a trial run in the summer semester In the program, teacher training students from higher semesters help freshmen with the transition to everyday university life and with questions about teacher training and their future profession. The mentoring program is one of several measures with which the Dortmunder Kompetenzzentrum für Lehrkräftebildung und Lehr-/Lernforschung (Dortmund Competence Center for Teacher Education and Teaching/ Learning Research) wants to make a contribution to combating the teacher shortage in schools.



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October | Gifted talent promotion

SchülerUni Celebrates 20th Anniversary

Attending lectures, studying for exams and writing term papers: For 20 years, the *SchülerUni* (Pupil's University) has given gifted pupils the opportunity to try themselves out as students alongside school and to earn credits. A total of 2,600 people have benefited from this so far. In the winter semester 2023/24, 72 pupils again take part. They can now choose from 24 subjects, as all 17 departments are involved. Ten successful participants (picture) receive their certificates at the anniversary celebration.



July | Vacation program

Try Out Studying at the SchnupperUni



At the end of the summer holidays, the departments once again open their lecture halls and laboratories for interested pupils from grade 10 onwards. They can experience everyday university life – from lectures and workshops to laboratory tours – and find out what is really behind study courses. The *SchnupperUni* (Trial Course University) helps them to find their way

around and to consider what they want to do after leaving school. Pupils can choose from over 80 events and "try out" different study courses. The program also includes lectures on cross-curricular topics such as studying abroad, application and enrollment, and financing studies.

February | E-Learning

Kick-off for "Zero Semester"



At the invitation of the Vice President Academic Affairs, Prof. Wiebke Möhring, TU Dortmund University members come together for the kick-off of the joint project begleitendes Virtuelles nulltes Semester an Hochschulen in NRW (beVinuS.NRW) (Accompanying Virtual Zero Semester at Universities in NRW). The project aims to refresh school knowledge for studies: TU Dortmund

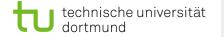
University, the Bergische Universität Wuppertal and the RWTH Aachen are developing a program of digitally supported, study-accompanying self-learning phases. The universities have already compiled which existing offers can be bundled. Online self-assessments have been offered since the winter semester 2023/24. All offers to close knowledge gaps are to be ready by 2025.

January | Orientation

Get a Taste of Studying at University Days

Being a student on trial, attending lectures and visiting laboratories – pupils can do all of this at the *Dortmund Hochschultage* (Dortmund University Days). After a two-year break due to the coronavirus, they are once again taking place entirely on site. TU Dortmund University is participating with 135 events. At lectures and workshops, young people can find out about degree courses at TU Dortmund University and career opportunities. They also have the opportunity to seek advice during consultation hours and talk to students.





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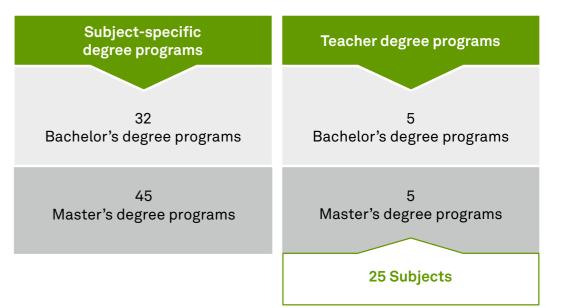
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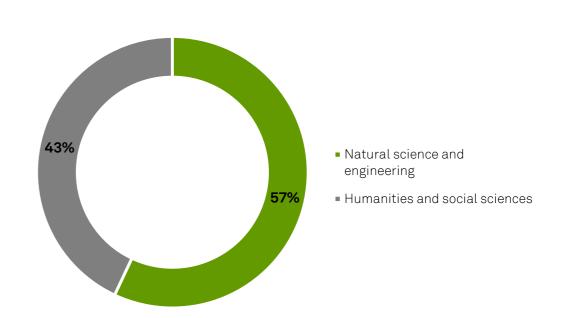
The Degree Programs

Subject-specific degree programs	Bachelor's degree	Master's degree
Advanced Methods in Particle Physics		EN
Ageing Societies		DE
Applied Computer Science	DE	DE
Applied Literary and Cultural Studies	DE & EN	DE & EN
Applied Linguistics	DE & EN	DE & EN
Architecture and Urban Design	DE	DE
Automation and Robotics		EN
Civil Engineering	DE	DE
Biochemical Engineering	DE	DE
Chemistry	DE	DE/EN
Chemical Engineering	DE	DE
Chemical Biology	DE	DE/EN
Data Science	DE	EN
Econometrics		EN
Economics and Journalism		DE
Electrical Engineering and Information Technology	DE	DE
Empirical Multilingualism		DE
Educational Sciences	DE	DE
Real Estate and Construction Management		DE
Computer Science	DE	DE
Industrial Mathematics		EN
Information and Communication Engineering	DE	
Journalism	DE	DE
Cultural Analysis and Cultural Intermediation	52	DE
Logistics	DE	DE
Manufacturing Technology	D2	EN
Mechanical Engineering	DE	DE
Mathematics	DE	DE
Mechanics of Sustainable Materials and Structures	DL	EN
Medical Physics	DE	DE
Music Journalism	DE	DE
	DE	
Philosophy and Political Science	DE	DE
Physics	DE	EN
Process Systems Engineering	DE	EN DE (EN
Spatial Planning	DE	DE/EN
Rehabilitation Pedagogy	DE	D.F.
Rehabilitation Sciences		DE
Religion, Ethics and Politics	D.E.	EN
Sociology	DE	DE
SPRING – Spatial Planning for Regions in Growing Economies	55	EN
Statistics	DE	DE
Sustainable Energy Systems	DE	EN
Technomathematics	DE	DE
Industrial Engineering	DE	DE
Business Mathematics	DE	DE
Economic Policy Journalism	DE	
Business Administration and Economics	DE	DE
Science Journalism	DE	DE
Total	32	45
Teacher training		
Elementary schools	DE	DE
German Secondary Schools (Haupt-, Real und Gesamtschulen)	DE	DE
Grammar Schools (Gymnasien) and Comprehensive Schools (Gesamt-	DE	DE
schulen) Vocational Schools	DE	
	DE	DE DE
Special Education		



Broad Choice of Degree Programs

There are around 80 degree programs at TU Dortmund University. Bachelor's and Master's degree programs are offered for all five types of schools in the teaching degree program, where in total, there are around 25 different subjects to choose from. In addition, there are six subjects in the area of special educational needs.



Wide Spectrum of Subjects: More than Just Technology

Around 60 percent of students are enrolled on natural science and engineering degree programs, around 40 percent on degree programs in the humanities and social sciences. A fourth of them are studying for a teaching degree.

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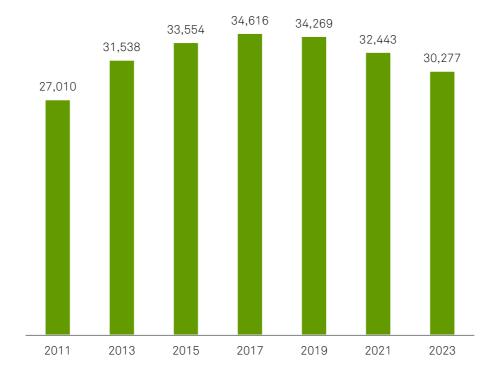
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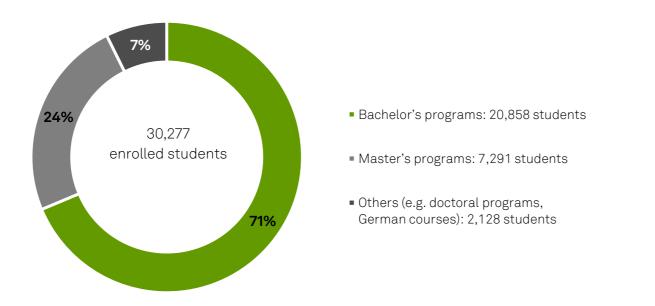
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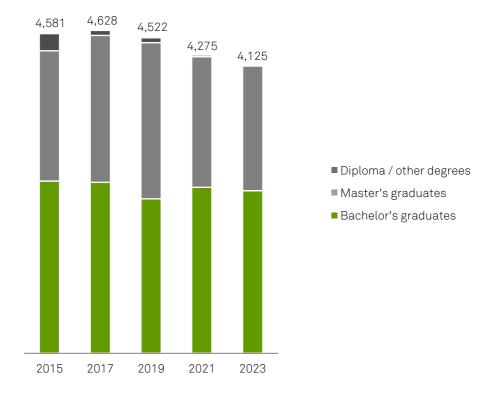


TU Dortmund University has got more than 30,300 students in the 2023/24 winter semester, including about 5,100 new enrolments. The number of students is at a high level, as the decline in the birth rate is being compensated for by factors such as an increasing propensity to study and immigration.



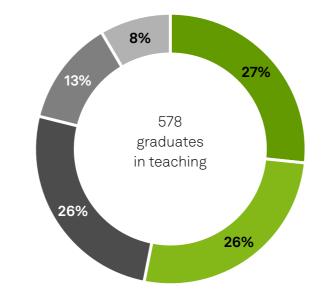
Bachelor-Master: Studies in Two Stages

In 2023, over two thirds of all students at TU Dortmund University are enrolled in Bachelor's programs and one fourth in Master's programs. The remaining seven percent are enrolled as doctoral candidates or taking German courses.



Training of Highly Qualified Professionals

In the 2023 exam year, a total of more than 4,100 students graduated from TU Dortmund University, including more than 2,300 Bachelor's and about 1,800 Master's graduates.



- Teacher training for grammar schools (Gymnasien): 154 graduates
- Teacher training for special education: 153 graduates
- Teacher training for elementary schools: 149 graduates
- Teacher training for vocational schools:73 graduates
- Teacher training for German secondary schools (Haupt-, Real- und Gesamtschulen): 49 graduates

Teachers for All Five Types of School

In the 2023 exam year, around 580 students at TU Dortmund University completed their Master's degree in teaching. The university trains teachers for all five types of school and thus helps alleviate the shortage of teachers in Germany.

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June | Program OERContent.nrw

State of NRW Funds Digital Learning Concepts



In the OERContent.nrw funding program, twelve cross-university projects for digital teaching and learning formats are again being supported with a total of around seven million euros. Three projects under the consortium leadership of TU Dortmund University are successful in this round of applications and will be implemented within two years. The fund-

ing amount is around 1.6 million euros – half a million of which goes to TU Dortmund University. The content of the three TU projects focuses on interactive learning videos, playful learning and digital casework. The new e-learning resources are to be made available free of charge to all teachers and students at universities in North Rhine-Westphalia.

October | XR Science Award

Making Structures Tangible with Virtual Reality

A team led by Prof. Christian Hartz from the Department of Architecture and Civil Engineering has received the XR Science Award from the German Institute for Virtual Realities in the Best Practice category for the joint project "iBuild AR – immersive construction worlds," which is funded by the Foundation for Innovation in University Teaching as part of "Freiraum 2022." Using digital models, students can make underlying structures visible: The structures become three-dimensionally tangible with Virtual and Augmented Reality.



May | Artificial Intelligence

Handout "Dealing with ChatGPT in Teaching"

Since the launch of ChatGPT in autumn 2022, Artificial Intelligence and its effects on teaching have been intensively discussed. TU Dortmund University is one of the first universities in Germany to provide a handout on "Dealing with ChatGPT in Teaching" in order to offer teachers guidance on legal aspects and didactic possibilities. Tools such as ChatGPT are to be meaningfully integrated into teaching at TU Dortmund and students are to be supported in acquiring competencies.

14 November | Workshops

Al Tools are the Focus at the "Day of Digital Teaching"

The "Day of Digital Teaching 2023" at TU Dortmund University revolves around the topic of "AI tools in teaching". In digital or hybrid workshops, participants deal with topics such as ChatGPT, teacher training in times of AI and barrier-free, collaborative learning. Andreas Wittke from the Technical University of Lübeck also takes stock and gives a keynote speech on the topic of "One year of ChatGPT, what has changed?" in the Rudolf Chaudoire Pavilion.

October | Funding for free space

Breaking New Ground in Teaching



In the thematically open *Freiraum* (Free Space) program, teachers can develop new ideas and try them out in practice. In the 2023 round of applications, the *Stiftung Innovation in der Hochschullehre* (Foundation Innovation in University Teaching) selects ten applications from TU Dortmund University. Of the total funding of almost 50 million euros for 174 pro-

jects, around three million euros go to TU Dortmund University, which is thus the university with the most successful projects nationwide in 2023. The concepts include, among other things, exit games, digital laboratories and educational spaces as well as augmented or mixed reality. The funding period begins in April 2024 and runs for two years for almost all TU projects.

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January | Program "NRWege ins Studium"

Funding to Support Refugees

The International Office receives funding of around 411,000 euros from the North Rhine-Westphalian Ministry of Science for 2023 in the NRWege ins Studium – Unterstützung von Studierenden mit Fluchterfahrung an Hochschulen in Nordrhein-Westfalen (North Rhine-Westphalian Paths into Studying - Support for Students with Refugee Experience at Universities in North Rhine-Westphalia) funding program. TU Dortmund University uses the money to offer language courses or study-accompanying scholarships and supports the Clearing Center for Refugees.



Summer semester | International Summer Program

Students from Partner Universities as Guests

17 students from the USA, China, Great Britain and Brazil participate in the International Summer Program (ISP). For 20 years, the program has enabled international students to take courses in the focus areas of "Entrepreneurship", "Engineering" or "German & European Studies" during the summer semester. In addition, the students take a German and a regional studies course. In return for the ISP, Dortmund students can study free of charge at the participating partner universities abroad.



March | 11th International Spring Academy

Teams Design Plans for the Harbor



How can the area around Dortmund Harbor be further developed in terms of urban building? This is the question that around 40 architecture students from TU Dortmund University, TU Eindhoven, FH Potsdam, the University of Naples Federico II, and the Berlin University of Technology are working on at the 11th International Spring Academy. The ten-day workshop,

led by adjunct Prof. Olaf Schmidt and adjunct Prof. Michael Schwarz, offers students the opportunity to exchange ideas with other aspiring architects and to establish long-term international contacts. The inter-university teams present their final designs for a redesign of the harbor area in the Baukunstarchiv

February | Project RESI

International Conference at the University of Mosul



Within the framework of the interdisciplinary project "Renew Education and Science in Iraq" (RESI), around 900 students from Iraq, Germany, Austria, Poland, and the Netherlands discuss how reconstruction in Mosul can succeed at a conference. The universities of Mosul, Graz, and Dortmund have been cooperating on the project since 2016.

September | Award Abdallah Abdelmonaem **Receives DAAD Award 2023**



TU Dortmund honors mechanical engineering Master student Abdallah Abdelmonaem with the Award of the Deutscher Akademischer Austauschdienst (DAAD) (German Academic Exchange Service) for his outstanding academic achievements and his social commitment: He supports international students as a mentor and is involved in housing and homeless work.

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November | Education program

Via the Study Bridge to Germany

At the second alumni meeting at TU Dortmund University, former participants of the *Studienbrücke* (Study Bridge) come together to exchange ideas and participate in workshops on career opportunities in science as well as on start-ups and transfer. Since 2014, the education program has enabled international students interested in studying to directly enter a Bachelor's degree program at a German partner university. The UA Ruhr, the Goethe-Institut and the DAAD prepare them for their studies in their home countries – mainly in Eastern Europe and Asia.





25 October | Attracting skilled workers

Career Fair with Record Participation



The International Career Fair is taking place on campus for the 12th time. Companies from Dortmund and the region present themselves to international TU Dortmund University students in order to attract skilled workers. There are two records to announce in 2023: 27 companies are represented and 430 interested parties take part in the matchmaking with

the recruiters. For this purpose, the *Talentefinder* (Talent Finder) app is being used for the first time, which "matches" interested students with potential employers. The app enables companies and students to make digital contact in advance, get to know each other and arrange a face-to-face appointment for the fair. Spontaneous visits are also possible.



February | Winter School

Students from Ukraine as Guests



As part of a winter school, students and scientists from Germany and Ukraine exchange ideas on current global problems. Under the leadership of Dr. Phillip Knobloch, Prof. Ruprecht Mattig and Prof. Johannes Drerup from the Institute of General Educational Sciences and Vocational Education at TU Dortmund University as well as two scientists from the western

Ukrainian Ternopil, ten Ukrainian students discuss with ten TU students different approaches to Global Citizenship Education. They refer to topics such as the war in Ukraine, the climate crisis, migration and flight, poverty, as well as post- and neocolonialism.

August | Mentoring program

"Tandem2Job" Helps in the Career Launch in Germany

To support international students as they embark on their professional careers, the International Office has launched "Tandem2Job." In 2023, the program enters its third round. For six months, students are mentored by experienced professionals from the region, as well as international TU Dortmund University graduates who have firsthand experience of what it takes to successfully enter the German job market.

Winter semester 2023/24 | Launch

Three New English-language Master's Degree Programs

The English-language Master's program offerings, which TU Dortmund University offers in part in cooperation with University Alliance Ruhr, have grown to 15 programs and specializations. New are the English-language specialization "Industrial Mathematics" in the Techno-mathematics degree program and the Master's degree program "Sustainable Energy Systems" in the Department of Electrical Engineering and Information Technology. In addition, the "Master of Physics" has been changed to English.

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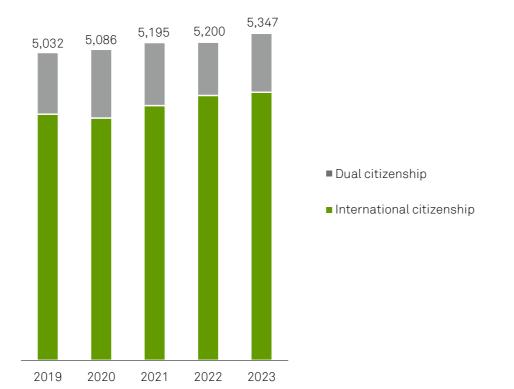
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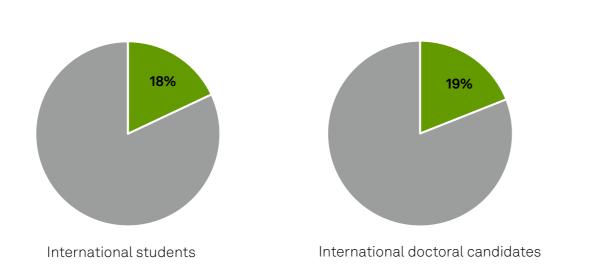
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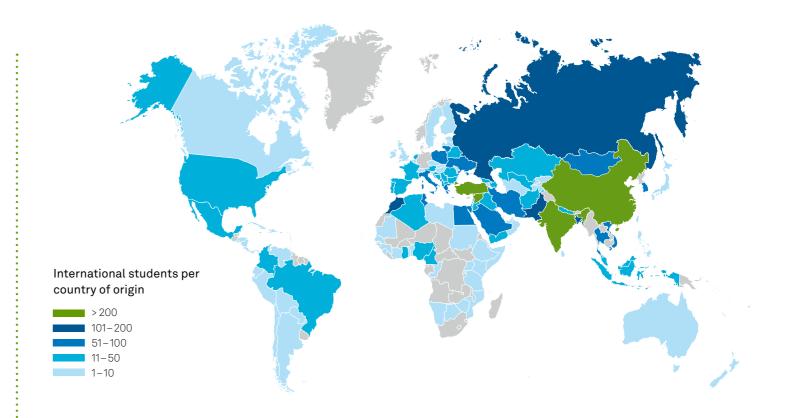
Attractive Place to Study for International Students

TU Dortmund University is popular among international students. More than 5,300 students who hold an international citizenship or a dual citizenship are studying at TU Dortmund University.



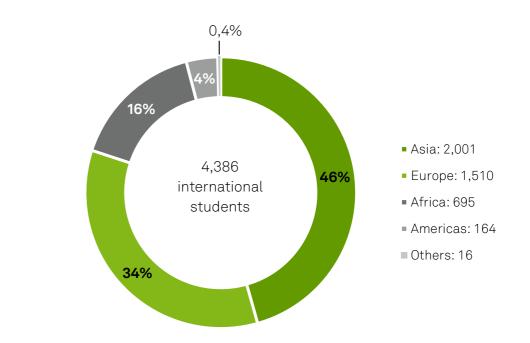
Students and Doctoral Candidates Come to Dortmund

Of the students at TU Dortmund University, around 18 percent hold an international passport. Among early career researchers, the share of people who hold an international passport is around 19 percent.



Students from All Continents

The students at TU Dortmund University come from around 130 different countries. Of those who acquired their university entrance qualification abroad, most come from India, followed by Turkey and China. Among the international students who acquired their university entrance qualification in Germany, around 32 percent hold a Turkish passport.



Just under half of all students who do not hold German citizenship come from Asia. Europe is also strongly represented. From Australia and Oceania, on the other hand, there are only four.

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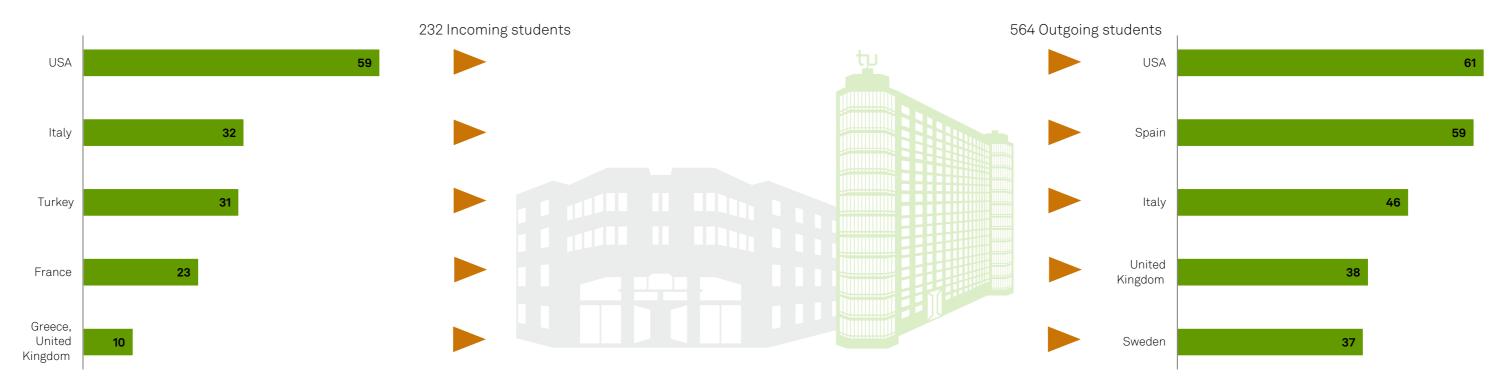
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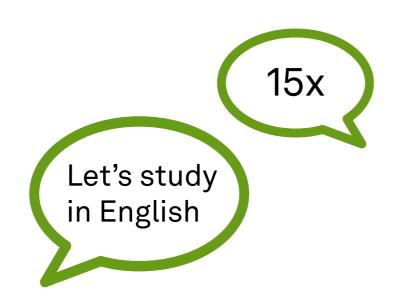


Incoming Students Come to Dortmund for an Exchange Semester

In the 2022/23 academic year, around 230 students came from abroad to TU Dortmund University for an exchange semester, an international internship or a short-term program. The majority of these students came from the USA, Italy and Turkey.

Outgoing Students go Abroad for an Exchange Semester

More than 500 students from TU Dortmund University were able to gain international experience in the 2022/23 academic year during an exchange semester, an international internship or a short-term program. The three most popular destinations were the USA, Spain and Italy.



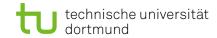
Studying in English

As of winter semester 2023/24, there are fifteen English-language Master's degree programs at TU Dortmund University. Since 2020, around ten new degree programs have been created.



University Partnerships throughout the World

TU Dortmund University has concluded around 420 cooperation agreements worldwide, including partnerships at university level, department collaborations and student exchange programs as well as around 290 Erasmus+ university partnerships. In addition, students may stay at around 280 universities in the ISEP network. The liaison offices of the University Alliance Ruhr are present on two continents.



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24 October | Strong start

Ruhr Area Universities Celebrate the Launch of the Research Alliance Ruhr

With around 100 guests from politics and science, TU Dortmund University, Ruhr University Bochum, and the University of Duisburg-Essen celebrate the official launch of the Research Alliance Ruhr, in which the three partners of University Alliance Ruhr bundle their international top research. At the ceremony, the university executives, founding directors and newly appointed professors present the opportunities offered by the Research Alliance Ruhr and the interdisciplinary research questions it addresses.

In her speech, NRW Minister of Science Ina Brandes (2nd from right) emphasizes the innovation potential of the Ruhr region as the densest university landscape in Europe and as a research location: "Here, solutions to the major challenges of the future are being thought up, developed and implemented. The

Research Alliance Ruhr stands for top research 'made in NRW'. It will make an important contribution to finding solutions to the pressing questions of the future and securing the prosperity of people."

Founded in 2021 on the initiative of the Ruhr Conference, 50 research professorships and four research centers are being created here, dealing with the topics of health and the environment, sustainable chemistry, new energy systems and data security. In addition, the College for Social Sciences and Humanities promotes open international exchange on a wide range of topics. The first 14 professorships have already been filled with internationally leading researchers. The state government is funding the start-up phase from 2022 to 2025 with a total of 123 million euros.



Convening for the launch of the Research Alliance Ruhr (from right to left): Prof. Martin Paul, President of Ruhr University Bochum, Prof. Barbara Albert, President of the University of Duisburg-Essen, NRW Minister of Science Ina Brandes, TU Dortmund University President Prof. Manfred Bayer, Thomas Kufen, Lord Mayor of the City of Essen, Thomas Eiskirch, Lord Mayor of the City of Bochum, and Josef Hovenjürgen, Parliamentary State Secretary in the NRW Ministry for Home Affairs, Municipal Affairs, Construction and Digitization.



11 May | High-ranking research award

Humboldt Professorship Awarded to Prof. Narevicius

At a ceremony in Berlin, the Alexander von Humboldt Foundation presents the highest endowed international research prize in Germany to Prof. Edvardas Narevicius (right) from the Department of Physics at TU Dortmund University. He is a pioneer in the experimental investigation of quantum effects near absolute zero. His professorship "Ultracold Reactions" is assigned to the Research Center "Chemical Sciences and Sustainability" of the Research Alliance Ruhr. Narevicius is also an associate member of the Cluster of Excellence RESOLV.



April | Statistics and AI

Mathematician Appointed to Research Professorship



Prof. Nadja Klein takes up the professorship "Uncertainty Quantification and Statistical Learning", which is located at the Department of Statistics at TU Dortmund University and the Research Center "Trustworthy Data Science and Security" of the Research Alliance. The mathematician develops methods at the interface of statistics and machine learning.





The College for Social Sciences and Humanities is seeking international scholars for its new fellowship program who would like to conduct research in an interdisciplinary environment with University Alliance Ruhr partners for one semester. Up to 20 Senior Fellowships will be awarded annually by the College to researchers in the humanities and social sciences.

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June | Guest program

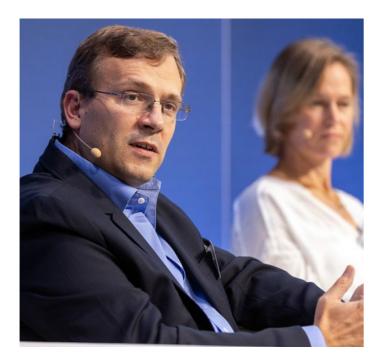
Junior Researchers Explore the UA Ruhr

As part of the two-week "Research Explorer Ruhr" program, the University Alliance Ruhr welcomes international postdocs and doctoral candidates to the Ruhr region. Nine of them are visiting TU Dortmund. They work with the groups of the professors they were invited by and get to know both the three universities and the region as a research location and living space. They can also make contacts for future stays and find out about funding opportunities.



October | All Hands Meeting

Scientific Exchange on Artificial Intelligence



Prof. Emmanuel Müller from the Department of Computer Science talks about trustworthy Artificial Intelligence at a meeting of the German AI competence centers. In Berlin, he represents both the Lamarr Institute for Machine Learning and Artificial Intelligence and the Research Center "Trustworthy Data Science and Security" of the University Alliance Ruhr.

December | MERCUR funding

Start-up Funding for Longterm Research Co-operations



The Mercator Research Center Ruhr (MERCUR) is again funding new cooperative research projects within the University Alliance Ruhr with around half a million euros. Researchers from TU Dortmund University are involved in two projects: "Synthetic Nucleic Acid Systems" and "Regional Structural Change and Labor Markets". The aim is to establish long-term co-operations.

September | Transfer

Together for More Start-ups in the Ruhr Area



The Presidents of the University Alliance Ruhr univer- nies in its network. With its programs, the hub has sities sign a "Memorandum of Understanding" with The aim of the cooperation is to further strengthen together founders, investors, scientists and compaially.

already supported over 50 start-ups in the fields of representatives of the RAG Foundation and BRY- energy, health, livable cities and hydrogen. Now, UA CK, a start-up and innovation hub based in Essen. Ruhr students can also take advantage of the activities and events that are designed to inspire them to start-up activities in the Ruhr region. BRYCK brings start their own businesses and think entrepreneur-

November | Continued funding

DFG Graduates College Researches Inequality

The Deutsche Forschungsgemeinschaft (DFG) (German Research Foundation) is providing around 3.8 million euros in funding for the joint University Alliance Ruhr Graduate College "Regional Inequality and Economic Policy" for a further four and a half years. Researchers and doctoral candidates in the college are working together to investigate how regional inequalities in areas such as income, education and health affect each other and what economic policy measures are associated with them. Four professors from the Department of Business and Economics at TU Dortmund University are involved in the project.





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October | Magna Charta Universitatum 2020

Jointly, (from left to right) RUB President Prof. Martin Paul, UDE President Prof. Barbara Albert and TU Dortmund University President Prof. Manfred Bayer sign the "Magna Charta Universitatum 2020 (MCU)". The manifesto, which was first written in 1988 and bundles the universal values and principles of universities, was renewed in 2020. With their signatures, the three University Alliance Ruhr universities commit themselves to the values that connect more than 950 universities on all continents across epochs and countries.



September | Teaching Scholarship Ruhr

Program for More Educational Justice



Two foundations, the University Alliance Ruhr and the state of North Rhine-Westphalia want to specifically attract teacher training students to work in schools in challenging situations in the Ruhr region. The partners have developed a scholarship program for this purpose, through which students from different teacher training courses are to be funded with 300 euros per month and at the same time systematically prepared

for work in schools in challenging situations. In order to seal their alliance, (from left to right) Dr. Markus Warnke from the Wübben Foundation Education, TU Dortmund University Vice President Prof. Wiebke Möhring, NRW Education Minister Dorothee Feller, Bärbel Bergerhoff-Wodopia from the RAG Foundation, UDE President Prof. Barbara Albert, and RUB President Prof. Martin Paul sign a "Letter of Intent".



Worldwide Fundamental Principles of Universities New Degree Programs on Energy Transition



In order to attract skilled workers for the energy transition in North Rhine-Westphalia, the University Alliance Ruhr is involved in the development of four further education Master's degree programs for international students. TU Dortmund University, Ruhr University Bochum, and the University of Duisburg-Essen are working together with the Düsseldorf University of Applied Sciences on this project. The English-lan-

guage courses are aimed at international Bachelor's graduates and alumni of the four universities. They are to be developed at the EUREF Campus Düsseldorf and focus on sustainable solutions for energy systems, construction and mobility as well as technologies for using renewable energy. Enrollment is expected to be possible for the first time in the winter semester of 2025/26.

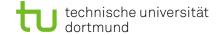


February | Joint cluster of excellence

RESOLV New Year's Reception in Dortmund

The members of "RESOLV - Ruhr explores solvation". the Cluster of Excellence at TU Dortmund University and Ruhr University Bochum, look back at the successes of the year 2022 at the New Year's reception: For example, the European Research Council granted TU Professor Prof. Rasmus Linser and RUB Professor Viktoria Däschlein-Gessner an ERC Consolidator Grant each. In addition, RESOLV enabled six scientists from Ukraine to continue their research in Ger-





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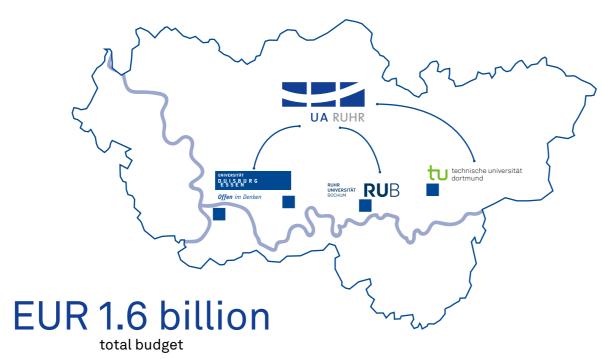
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universities

TU Dortmund University Ruhr-Universität Bochum (RUB) University of Duisburg-Essen

110,000 students on over 500 degree programs

1,300 professors



EUR 440 million third-party funds

16,000 graduates per year

334

cooperative research projects funded by MERCUR since 2010

Better Together - University Alliance Ruhr

TU Dortmund University has been working closely and strategically with Ruhr-Universität Bochum (RUB) and the University of Duisburg-Essen within the University Alliance Ruhr (UA Ruhr) since 2007 – true to the motto "better together".

Research Alliance Ruhr

The University Alliance Ruhr bundles its international, pioneering, cutting-edge research under the umbrella of the Research Alliance Ruhr in four research centers and a college. For the start-up phase, the state is providing a total of EUR 123 million until 2025.



Research Center Chemical Sciences and Sustainability

The Research Center Chemical Sciences and Sustainability aims to understand chemical reactions, processes and products at the molecular level. These insights will open up technological applications in chemistry, building materials and pharmaceuticals that are innovative, environmentally friendly and economically competitive. It is essential to regard solvent molecules as active participants and not as an inert matrix in order to optimize processes in solvents such as water.



Research Center One Health Ruhr – from Molecules to Systems

The Research Center One Health – from Molecules to Systems investigates the fundamental mechanisms of health and disease, starting from the molecular level right through to higher-level systems. The ecosystem serves as a context for also considering the complex interrelationships between environmental health, animal health and human health, in keeping with the "One Health" concept. After all, humans can only stay healthy in an intact environment.



Research Center Trustworthy Data Science and Security

The Research Center Trustworthy Data Science and Security addresses the trustworthiness of intelligent systems in safety-critical applications. A unique, human-centered research approach covers the entire interdisciplinary research of trustworthy data analytics, explainable machine learning, and privacy-aware algorithms.



Research Center Future Energy Materials and Systems

The Research Center Future Energy Materials and Systems aims to develop new materials that are urgently needed for energy carrier generation, energy conversion, storage, and transport in a targeted, rapid and sustainable manner. The goal is to understand fundamental properties and relevant processes in the generation and use of complex materials in order to develop building blocks for a sustainable energy system. At the same time, the research center is looking into regenerative processes to replace energy-intensive ways of materials production and processing.



College for Social Sciences and Humanities

As an Institute for Advanced Study, the College for Social Sciences and Humanities promotes excellence in research in social sciences and humanities and advances international cooperation of the University Alliance Ruhr. The research college provides opportunities for developing and implementing innovative research projects and conceives as its mission to facilitate interdisciplinary dialogue and collaboration. The fundamental cornerstones of the college are research professorships, research groups, and an international senior fellowship program.



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May | European Digital Innovation Hub Dortmund

Digital Transformation in Companies



The "European Digital Innovation Hub Dortmund" (EDIH-DO) project is being launched to expand digital skills in small and medium-sized companies in the region. In the project, companies gain access to technical expertise as well as research halls and test fields. The European Union is funding the Innovation Hub with two million euros over three years. The hub will

also become part of the network of European Digital Innovation Hubs, which the city of Dortmund and the Unna district joined in 2022. The Center for Entrepreneurship and Transfer (CET), TU concept GmbH, and the Fraunhofer Institute for Material Flow and Logistics are also involved in EDIH-DO.

June | Drug Delivery Innovation Center

New Laboratories for Pharmaceutical Technology

INVITE GmbH – a partnership between TU Dortmund University, Heinrich Heine University Düsseldorf, and Bayer AG – is opening the extension of the "Drug Delivery Innovation Center" (DDIC) in Leverkusen. Scientists and industry representatives work together in the DDIC on advanced manufacturing processes and dosage forms for modern medicines. The aim is to accelerate the transfer of basic research into application. In the new laboratories, the scientists are researching highly potent active ingredients.



March | Digital production technologies

Center Networks Science and Industry



With partners from the city and industry, four departments at TU Dortmund University are opening a competence center for digital production technologies. The new center offers small and medium-sized companies in the region direct knowledge transfer from science, joint research and development, and numerous training courses. The departments of Me-

chanical Engineering, Business and Economics, Biochemical and Chemical Engineering, and Electrical Engineering and Information Technology contribute their scientific expertise in the various subject areas and help companies to increase their innovation potential. CET supports with seminars and networking events.



October | Transatlantic co-operation

Universities Support Regional Development

A delegation from Dortmund visits Lehigh University in Pennsylvania, USA, for a joint conference, which has been a partner of TU Dortmund University since 1999. In their conference, the scientists from the partner universities jointly address the question of how universities can contribute to positive economic regional development. In addition, Vice President International Affairs Prof. Tessa Flatten (right) signs a joint "Memorandum of Understanding" to expand the partnership.



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June | Business simulation game

TU Students Win Westenergie Manager Cup

For the second time, the Chair of Corporate Accounting and Controlling under Prof. Andreas Hoffian (left) organizes the "Westenergie Manager Cup" business simulation game together with Westenergie. Students from TU Dortmund University, FH Dortmund, and the International School of Management take on the roles of board members of a listed company and make a wide range of decisions, for example in the areas of sales, purchasing and marketing. The first prize is won by a team from the Department of Chemistry and Chemical Biology.



17 May | New event series

In Dialog with Companies from the Region



The "Future Dialogue" series of the Center for Entrepreneurship and Transfer kicks off with a lecture on the circular economy. The format enables local companies to shed light on current future issues from their perspective and to engage in a content-related exchange with students, scientists and employees of TU Dortmund University. At the Future Dialogue, com-

panies can also present themselves to future skilled workers. To mark the launch of the event series, Dr. Ansgar Fendel, Managing Director of REMONDIS Assets & Services GmbH & Co. KG, gives a lecture on how the circular economy can be used to transform into a sustainable and climate-neutral economy.

20 November | Future dialog

Exchange on "Green" Hydrogen



At the second Zukunftsdialog (Future Dialog), Dr. ing to forecasts, the global demand for hydrogen is Carsten Schmitt and Piriyanth Sakthithasan from thyssenkrupp nucera discuss innovations and challenges in the hydrogen sector with TU Dortmund Unisis technology for the production of "green" hydrogen, which is produced with renewable energies. Accord-

expected to increase sevenfold by 2025 compared to 2021. They also talk about the challenges of the sector: These include not only the production but also versity members. They present the alkaline electroly- the storage and transport of hydrogen, as well as the extensive safety precautions that must be taken for

Summer semester | tu.CREATE x Miele Challenge

Students Develop Sustainable Project Ideas

25 TU Dortmund University students from different disciplines work together in a joint program of TU concept GmbH and the household appliance manufacturer Miele to develop sustainable project ideas over eight weeks. During the "tu.CREATE x Miele Challenge", mentors from Miele as well as five coaches from the Center for Entrepreneurship and Transfer and TU concept GmbH support the small groups. The ideas developed cover a wide range of topics, from an app solution for optimal power consumption to sustainable construction.



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October | Structural change

Report "Bio-economy Startup Pulse" Published



A team led by Prof. Steffen Strese and Prof. Tessa Flatten has for the first time systematically investigated the role of bio-economy startups in structural change in the Rhine region – and published a report. Bio-economy encompasses all industries that sustainably produce, process or use biological resources.

25 September | Successful market launch

TU Spin-off Receives NRW Innovation Award



NRW Economics Minister Mona Neubaur (left) presents the NRW Innovation Award in the "innovation-2market" category to Dr.-Ing. Sascha Feldhorst (right) for a successful market launch. Feldhorst is co-founder of MotionMiners GmbH: The growing start-up analyzes movement sequences for improved ergonomics and optimized work processes.

November | TU Start-up Award

Founding Teams Convince Jury and Audience

Seven teams present their ideas from various sectors, ranging from real estate to food, at the CET's TU Start-up Award. The three winning teams are all from Dortmund: First prize went to "Valoon," which is developing software for construction project management. Second place went to the team from "Dr. Q" with their virtual calculation engineer. The start-up "Sochili," which sells chili sauces and donates a portion of the proceeds to provide electricity for farmers, received third place, as well as the audience award.



October | TU Start-up Weekend

23 Founding Ideas in One Weekend

At the TU Dortmund University Start-up Weekend of the CET, 23 different founding ideas are developed in three days. 45 participants in nine teams work on their own problem definitions. The teams receive feedback on initial solution approaches, prototypes and target group interviews as well as coaching in storytelling and stage presence from mentors from various fields and areas of experience. Finally, they develop pitches for a friendly competition in front of a jury.

Winter | FemaleFounders@CET

Support for Women Interested in Founding

The Center for Entrepreneurship & Transfer (CET) is now offering a new program called FemaleFounders@CET to specifically support women in academia who are interested in founding their own businesses. The goal of the ten-month program is to further increase the proportion of women among startups at the CET, which is currently around 21.7 percent, in line with the national average. To achieve this goal, the CET was able to secure funding of 99,000 euros from the Federal Ministry of Economics and Climate Protection's new "EXIST-Women" funding line.

6 September | UNIPRENEURS Award

Outstanding Commitment to Start-ups



Federal Education Minister Bettina Stark-Watzinger (right) presents the UNIPRENEURS Award to Prof. Tessa Flatten (center) of the Department of Business and Economics. The award from the Federal Ministries of Science and Economics honors 20 professors who make significant contributions to the transfer of innovations into the economy. Prof. Flatten researches

entrepreneurship, particularly entrepreneurial marketing and founder personality. Since 2021, she has headed the Institute for Technology, Innovation, and Entrepreneurship together with Prof. Steffen Strese. She shares her knowledge and experience with students and startups, including as a CET mentor.



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full-time positions at CET for transfer and career advice as well as support for start-ups



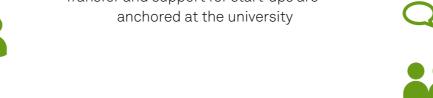


1,800 qm

of floor space for CET as the central contact point, including MakerSpace and DataSpace

Third Mission

Transfer and support for start-ups are anchored at the university





249

qualification workshops in 2023 with 1,833 participants

supervised teams in 2023, including 7 new start-ups

108



transfer options with qualification offers such as the cettec, cetup and cetucate programs



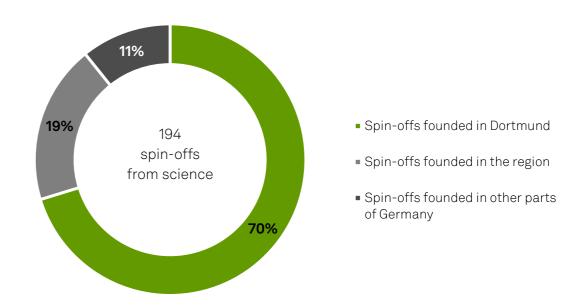
are possible via the two subsidiaries TU concept GmbH and TU Capital GmbH & Co. KG



external network partners work with CET in transfer and career advice as well as support for start-ups

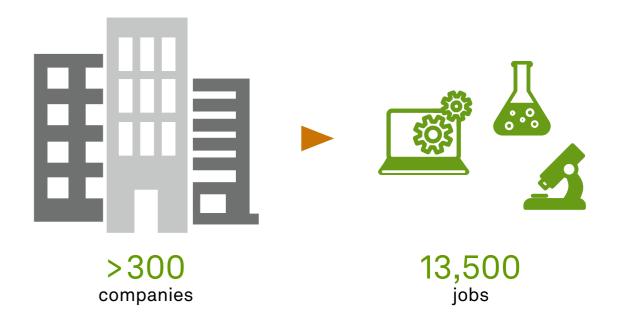
Outstanding Support for Start-Ups

The Center for Entrepreneurship & Transfer (CET) of TU Dortmund University, which has been funded since 2019 by the State of North Rhine-Westphalia as an Excellence Start-up Center, supports start-ups and aspiring entrepreneurs with various programs, workshops and equity investments



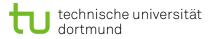
TU Dortmund University's Heart Beats for Start-Ups

TU Dortmund University promotes spin-offs from science – and does so very successfully: Since 2007, more than 190 spin-offs from TU Dortmund University have been founded, around 70 percent of them in Dortmund.



Largest Technology Park as Neighbor

Germany's largest technology park is located right next to the campus and is a mark of successful technology and knowledge transfer at TU Dortmund University. Over 300 companies have settled here and created around 13,500 jobs for highly qualified employees. TechnologieZentrumDortmund (TZDO) was founded almost 40 years ago and is the heart of the technology park.



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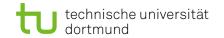
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August | Interim phase

Central Library Moves to Replacement Locations until New Building Opens

On 7 August, the Central Library closes its doors and is emptied in preparation for demolition and reconstruction. Most of the books are moved to a storage facility in Dortmund-Dorstfeld, and the staff will move to offices on Sebrathweg. This marks the start of the interim phase until the new building opens in 2028/29.

During this time, the central location of the University Library on campus is the Emil-Figge Library. The opening hours are extended until 10 PM. Books from other locations and the storage facility can be pre-ordered and picked up there the next business day.

On 21 August, the interim location at Sebrathweg 7 in the Technology Park opens. It houses 60,000 books in the natural, engineering, and economic sciences, and 20,000 volumes of humanities and social science journals.

Replacement is provided for the 1,300 study spaces previously available in the Central Library: A co-learning space on Campus North (310 spaces) is opened in the spring. Since August, the gallery in the cafeteria building can be used in the evenings and on weekends (450 spaces). Study groups can also book spaces in the International Meeting Center. At the Sebrathweg 7 library, there are around 240 individual and group spaces; another co-learning space is created on Campus South. In January 2024, a study location in the so-called "Telekom Building" at Westentor opens in the city center, offering 160 spaces.



October | Chemistry

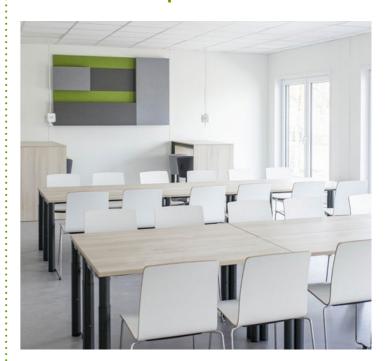
Practical Building at Otto-Hahn-Straße Opens



The new building at Otto-Hahn-Straße 6a offers members of the Department of Chemistry and Chemical Biology a modern and well-equipped research and learning environment. On around 3,300 square meters, there are two large practical areas, research labs, offices, and 300 student workspaces.

April | Campus Nord

Co-learning Space Offers New Student Workplaces



A new co-learning space opens on Campus North at Joseph-von-Fraunhofer-Str. 18 – right next to the seminar building. With 212 individual, 46 group, and 52 lounge workspaces, it provides students with places for various learning situations. Additionally, a tea kitchen, 72 lockers, and two snack machines are available.

February | BabyLab opens

Researching Language Development in Toddlers

Psycholinguist Prof. Barbara Mertins (second from right) and her team open a BabyLab to study the language development of babies and toddlers. The reactions of the young participants to different audio samples will be evaluated. The results aim to provide new insights into how children learn languages and understand the world. An initial study examines the impact of parental mobile phone use, hypothesizing that the more parents look at their phones, the less interest children show in language.



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28 October | Varied program

Guests Experience the Largest Open House Day



With more than 120 events, TU Dortmund University offers visitors exciting insights into research, study, and administration on the largest open house day to date. Visitors can take guided tours of one of Germany's most modern high-voltage laboratories and the former Central Library, which is now empty and set to be rebuilt. They can also watch robots play football

and enjoy short concerts by music ensembles. The popular lecture series "Between Rolls and Borussia" kicks off the winter semester with a talk on the physics of beer, and student advising provides information about TU Dortmund University's study programs.

29 June | Summer festival

Exuberant Atmosphere on Campus

In summery temperatures, students, staff, and their families and friends celebrate the summer festival. The university's facilities, departments, and student organizations offer a colorful program: Students make ice cream with liquid nitrogen, university sports invite attendees to try out different sports, and guests can get creative with DIY activities. International students offer food from their home countries, while the Student Services Organization provides sausages and panini. Bands on stage ensure a festive mood.



16 November | Department of Business and Economics

Celebrating the 50th Anniversary

With a ceremonial event at DASA, the Department of Business and Economics celebrates its 50th anniversary with guests from business, the city, and academia. Founded in 1973 as the Department of Economics and Social Sciences at the newly established University of Dortmund, it began teaching with only 54 students. Today, the department offers the university's second-largest Bachelor's degree program, with nearly 400 new students each year. The 21 professors and five junior professors cover a wide range of research areas.



Winter semester 2022/23 | Support services

Department of Physics Establishes Graduate School



The Department of Physics aims to provide exemplary support for early-career researchers during their PhDs and establishes the "Dortmund Graduate School of Physics." All PhD students automatically become members and benefit from advisory and support services. The first doctoral candidate in the new program is Joshua Althüser (center).

June | GdF

Wide-ranging Support from the *Freundegesellschaft*



At its annual meeting, the Gesellschaft der Freunde der TU Dortmund (GdF) (Society of Friends of TU Dortmund University) reviews the past year. As a non-profit association, it supports the university in various ways, benefiting projects like the student racing team "Get racing," which presents its new racing car at the meeting.

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2 February | Initial spark

Prof. Benjamin List Talks about Organo-catalysis

In front of around 700 guests, Prof. Benjamin List, Director at the Max Planck Institute for Coal Research in Mülheim an der Ruhr, speaks in the lecture series "Initial Spark" about "Catalysis for a Better World." In 2021, he received the Nobel Prize in Chemistry for his development of asymmetric organo-catalysis: He was the first to successfully use organic molecules for catalysis. Previously, expensive and potentially toxic metals or metal-containing enzymes were required. Prof. List is also a research leader in the excellence cluster "Ruhr Explores Solvation."



20 November | The Wissensmacher

Mai Thi Nguyen-Kim Fills the Audimax



As part of the lecture series Die *Wissensmacher* (The Knowledge Makers) by the Institute of Journalism, Dr. Mai Thi Nguyen-Kim visited TU Dortmund University. The chemist and science journalist spoke about her career and answered questions from the audience. She hosted "Quarks" and "Terra X" and now has her own show, "MaiThink X," on ZDFneo. With her for-

mats, she aims to contribute to depoliticizing current debates, which is not always easy, she says: "Television expects short and crisp answers, which science doesn't always have." She encourages the audience to actively communicate science themselves. The discussion was moderated by Prof. Holger Wormer and student Carlotta Wagner (right).

29 November | Initial spark

Prof. Genzel Presents Astrophysics Insights

Around 1,000 guests join Prof. Reinhard Genzel, Director at the Max Planck Institute for Extraterrestrial Physics in Garching near Munich, in the "Initial Spark" lecture series for an expedition through his life's work as an astrophysicist: In 1985, he discovered a massive object at the center of our galaxy. After nearly four decades of research and thanks to modern telescope images, he was able to confirm his suspicion and prove that it is a black hole. For this, he received the Nobel Prize in Physics in 2020.



February | Responsibility

Guiding Principle for Good Science Communication Published



The new guiding principle aims to provide scientists with a framework for responsible communication with society. They were developed by the Science Journalism Division under the direction of Prof. Holger Wormer in cooperation with the Office of University Communications.

April | Science communication

Marcus Anhäuser is "Scientist in Residence"



At the intersection of the Institute of Journalism and the Office of University Communications, Marcus Anhäuser begins his role as "Scientist in Residence." This unique position in Germany aims to develop science-based quality criteria for science communication, particularly in the field of Artificial Intelligence.

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18 December | Academic Year Celebration

President Sets the Focus on Peace and Freedom



At the Academic Year Celebration, President Prof. Manfred Bayer welcomes around 700 guests in the Audimax. He addressed the ongoing conflicts worldwide, particularly in the Middle East, which have an impact on universities globally. He emphasizes: "TU Dortmund University is a place of respectful coexistence. Hostility has no place here. We particularly do

not tolerate any form of anti-Semitism." Prof. Christian von Coelln from the University of Cologne delivered the keynote speech on "Freedom in the University." The Society of Friends of TU Dortmund University supports the event. Numerous awards were presented during the celebration before the traditional reception in the cafeteria (see chapter People).



7 October | Suffering in the Middle East

The Rectorate Condemns Terror Attacks on Israel

On the 50th anniversary of the Yom Kippur War, the terrorist organization Hamas launched a major attack on Israel, which TU Dortmund University strongly condemns: It is the starting point for immense suffering that has affected all people in the region ever since. The sympathy of TU Dortmund University members goes out to them. The university has maintained close ties in research and teaching with this region for many years. The Rectorate hopes that peaceful coexistence of people from different nations on campus will continue regardless of political conflicts.



April | Educational Angels

Association Awards Scholarships for International Researchers

Bildungsengel e.V. (Educational Angels Association) provides 30,000 euros for international researchers who need bridging funds to start or continue their careers at TU Dortmund University. This may occur when funds from sponsoring institutions in crisis countries are no longer available or when work permits are missing during transition periods. The scholarships, endowed by Prof. Detlef Müller-Böling and Christine Müller-Böling, are awarded for a maximum of six months.

Since 2022 | Aid program

Scientists Threatened by War as Guests

TU Dortmund University offers guest stays for researchers threatened by the war against Ukraine. The assistance program is funded by the rectorate and the host departments and serves as seed funding before potential multi-year funding by research organizations. Among the hosted researchers are Dr. Lyudmyla Chernova, who works in the Department of Business and Economics, and Prof. Valerii Kidalov, who conducts research in the Department of Physics.



Liaison Office in Ghana Opens



TU Dortmund University has opened a liaison office in universities. The University of Cologne is the lead the Ghanaian capital Accra, together with five other partner for the new liaison office. Other members, in universities from North Rhine-Westphalia. The office is located in the premises of the local Goethe-Institut. of Duisburg-Essen, Heinrich Heine University Düssel-The aim of the consortium called Ghana-NRW-Uni- dorf, Rhine-Waal University of Applied Sciences, and versity Alliance is to promote academic exchange between the West African country and the six NRW is the on-site manager.

addition to TU Dortmund University, are the University the University of Siegen. Dr. Beatrice Asenso Barnieh

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August | World University Games

TU Students Win Silver in Rowing Eight

At the FISU World University Games in Chengdu, China, three students from TU Dortmund University achieved success: Lukas Föbinger, David Keefer, and Leon Schandl won the silver medal in the German rowing eight. At the world's second-largest multi-sport event, they were only bested by the Dutch team. The boat also included two students from Ruhr University Bochum, making the University Alliance Ruhr the majority of the team. Christoph Edeler, Head of University Sports, was also on-site as a delegation



24 May | Sports event

New Course Record at the 37th Campus Run



Around 1,300 enthusiastic athletes gather on campus to compete. With perfect running weather, the audience cheer them on. After the kids' run, the 2.5-kilometer race begins, with Frederik Dönch and Karlot-Lorenz Niedrig and Maike Drewenskus are the first to reach the tenth floor, Lorenz Rix and Sabine Lischka

win the popular 5-kilometer race. Hendrik Pfeiffer sets a new course record in the men's 10-kilometer race. Lea Marie Pötz is the fastest woman to finish the 10 kilometers. The relay race is won by "The Pacers"; Anta Jule Kranz finishing first. In the Math Tower Run, tonia Köhr, Jarne Willrich, and Lorenz Rix are crowned Campus Champs.



Spring | Bake sale and charitable show

Aid Program for Earthquake Victims



On 6 February, severe earthquakes strike the Syri- 1,550 euros. The money is donated to the Turkish disalone. The response at TU Dortmund University is significant. Students from the Student Body Construction organize a spontaneous fundraising campaign: in mid-February, they sold coffee and cakes, raising

an-Turkish border region. More than 48,000 people aster relief agency and a charitable aid organization. die, and around 1.5 million are left homeless in Turkey In May, the university sports department holds a benefit show featuring eight dance and acrobatic groups from the university, including Anatolian folk dances. The audience donates a total of 3,600 euros.

May | Performance diagnostics

Sports Department Cooperates with BVB Handball Women

For an initial period of one year, the Department of Sports and Sport Science provides scientific support to the Borussia Dortmund women's handball team. Dr. Marcus Schmidt from the Department of Sports and Sport Science and Rupert Thiele from the BVB handball department signed a cooperation agreement. Based on the results of performance diagnostics for endurance, speed, and strength, the researchers develop training recommendations and measure their effectiveness. Additionally, the first-league club's athletes regularly train at the fitness center.



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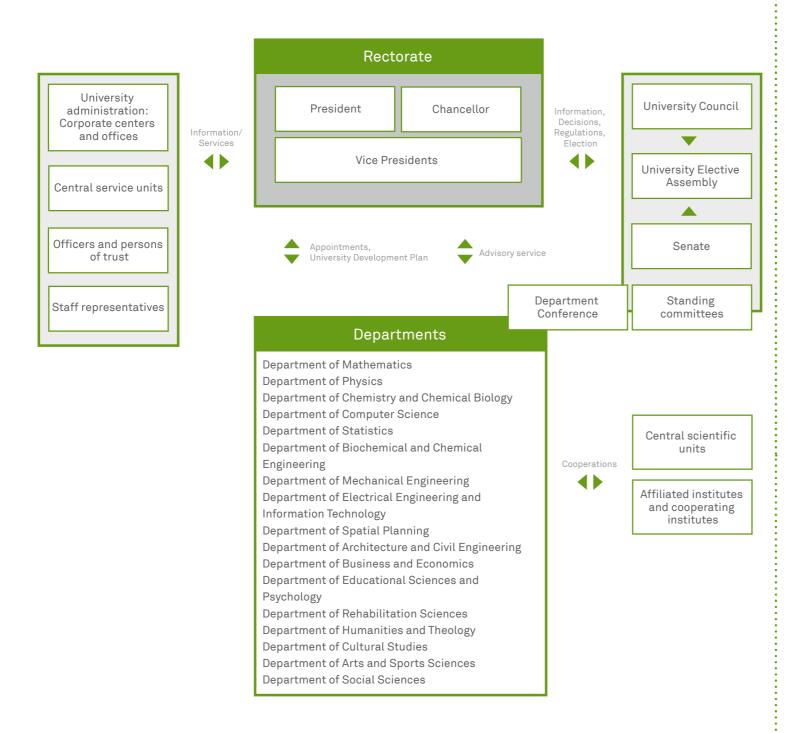
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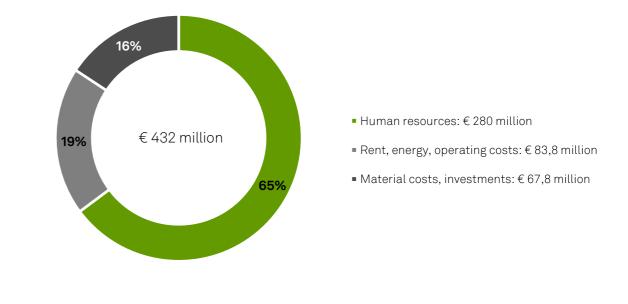
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Overall Structure of TU Dortmund University

The Rectorate presides over TU Dortmund University. The members of the Rectorate are elected by the University Elective Assembly, a body composed of the University Council and the Senate. The academic community comprises 17 departments in the natural and engineering sciences, social sciences and cultural studies. The deans convene in the Department Conference. The departments also work together with the university's central scientific units and a number of non-university research institutes nearby. University administration as well as the central service units see themselves as service partners for research and teaching operations. Officers, staff representatives and the standing committees also contribute to shaping the university.

EUR 432 Million Total Expenditure by TU Dortmund University

The total expenditure by TU Dortmund University for 2023 is around EUR 430 million – equivalent to the budget of a large corporation. Human resources account for most of the expenditure. More than three fifth of the total expenditure are covered by the university's core funding. The remaining budget comprises third-party funds and fixed-term program funds from the federal and state governments.

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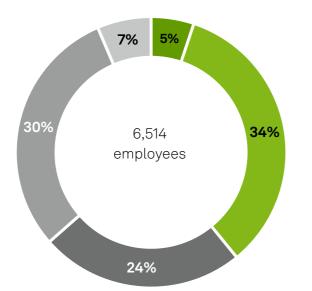
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- Professors: 333
- Academic staff: 2,215
- Technical and administrative staff:
- Student assistants: 1,958
- Adjunct lecturers: 419

One of the Largest Employers in the City

More than 6,500 people work at TU Dortmund University, including more than 330 professors. With about 100 apprentices and trainees in technical services and administration, TU Dortmund University is one of the largest training organizations in the city.

> at HoKiDo (Parents' initiative)

> > Places at daycare centers

at "9x kluge Zwerge", "Schlauschlümpfe" and "Clevere Kobolde" (for children of

120 at "Kita im Grünen" (Studierendenwerk) employees)

Childcare

As a family-friendly university, TU Dortmund University fosters the compatibility of family and studies or career. In 2023, there are around 230 nursery and pre-school places near campus.



in relaxation breaks (Entspannungspause)



295 in exercise breaks (Pausenexpress)



flu jabs



Participants



in management development programs



256

in circuit training

in mobile massage



in screenings (e.g., skin, long-term blood sugar)



626 in preventive healthcare

A Healthy Working Environment

As an employer, TU Dortmund University is also dedicated to the topic of health and takes a holistic approach. On the one hand, there are offers that encourage individual healthy behavior and, on the other, measures to create a healthy working environment. Occupational Health Management is responsible for coordinating measures.

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16 June | Diversity management

Prof. Petra Wiederkehr is the New Vice President

The University Elective Assembly, consisting of the Senate and the University Council, unanimously elects Prof. Petra Wiederkehr as Vice President Diversity. She has been the UA Ruhr-Professor for Virtual Machining in the Department of Computer Science since 2017. "I am very happy to bring my perspective to bear in breaking down structural barriers and encouraging women in their scientific careers," says Prof. Wiederkehr. "I am also looking forward to working with the experts in the Diversity Working Group to fully develop the division."



November | Taking a stand

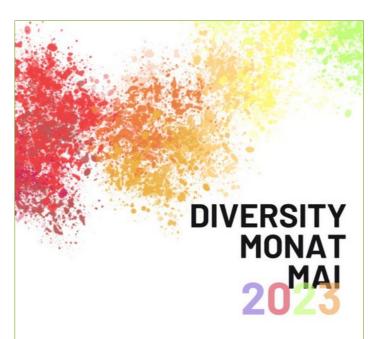
Campus Action against Violence against Women



On the occasion of the International Day for the Elimination of Violence against Women, TU Dortmund University, FH Dortmund, FH Südwestfalen, and the Student Services are making a statement: Special campus flags and specially designed bread bags are intended to raise awareness of the issue. The bags also display specific support services and QR codes for information pages.

May | Varied program

Actions Month Focuses on Diversity



In the context of the German Diversity Day, the Staff Unit Equal Opportunities, Family, and Diversity organizes a program of events dealing with various aspects of diversity. In addition to formats already established at the university, the exhibition WE ARE PART OF CULTURE is showcased.

October | New Central Advisory Center

Protection against Discrimination



The new Zentrale Beratungsstelle zum Schutz vor Diskriminierung und vor sexualisierter Gewalt (SchuDS) (Central Advisory Center for Protection against Discrimination and Sexualized Violence) begins its work. Kaya Gödeke (she/her) and Nicole Jansen (she/her) are available as contacts for all persons at TU Dortmund University who have experienced or witnessed

discrimination and/or sexualized violence. People with questions or seeking information can also reach out to them. Additionally, the team aims to raise awareness of the issue. SchuDS is part of the Staff Unit Equal Opportunities, Family, and Diversity and offers its counseling free of charge and, if desired, anonymously, in English, or in simple language.

September | Self-commitment

United against Abuse of Power

The universities in North Rhine-Westphalia have adopted a joint declaration of commitment on dealing with the abuse of power. TU Dortmund University also commits to consistently combating all forms of power abuse and establishing support services. The university can build on various prevention activities: since summer 2023, there has been a Working Group on Abuse of Power and new "Principles for Good Supervision of Doctoral Students" to strengthen the position of doctoral candidates.



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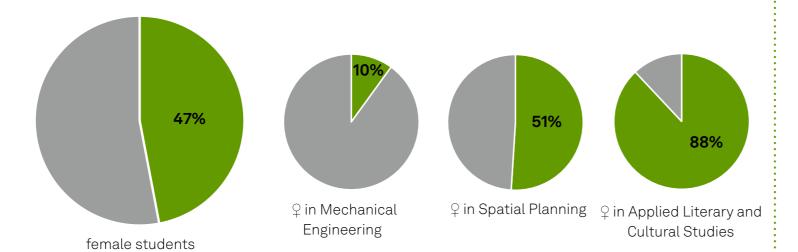
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Different Study Preferences

The gender ratio among students is almost balanced: The overall proportion of women is 47 percent. However, the number of women and men in the individual Bachelor's degree programs differs. Various programs aim to inspire female school students to study subjects in which women are still underrepresented.





13%



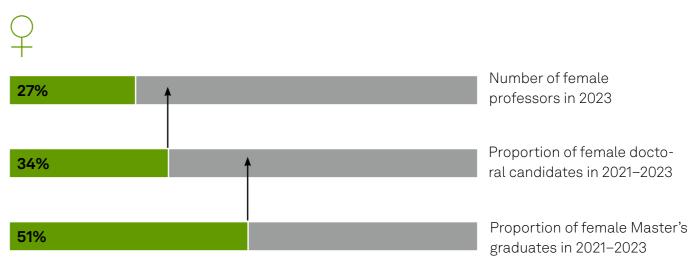
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44

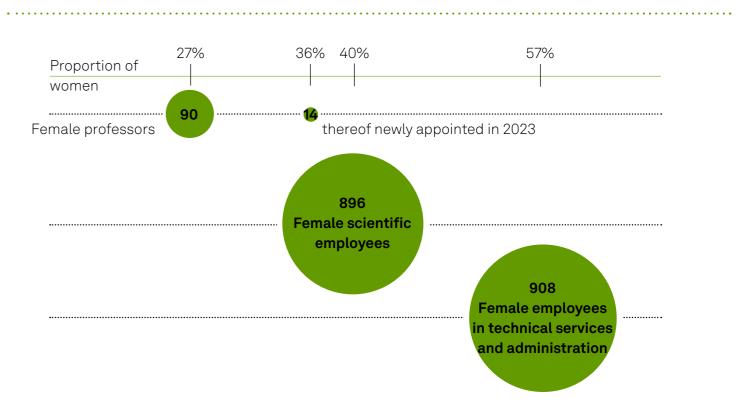
Diverse Student Body

About eight percent of students have one or more children. 13 percent of students have an impairment that makes studying difficult. More than 380 students are over 50 years of age. 44 students do not identify as either a woman or a man.



Increasing Proportion of Women in Accordance with Cascade Model

The proportion of female professors has increased from 17 to 27 percent since 2008. The intention is to raise this further. This does not involve fixed quotas, but rather the cascade model: According to this, the existing proportion of women at one career level in a subject sets the target for the next higher one.



Proportion of Women Among Staff

A total of around 1,900 women work at TU Dortmund University. In 2023, the proportion of professorships held by women is 27 percent. Of the scientific employees, 40 percent are women, and of those in technical services and administration, the proportion of female employees is even higher at 57 percent.



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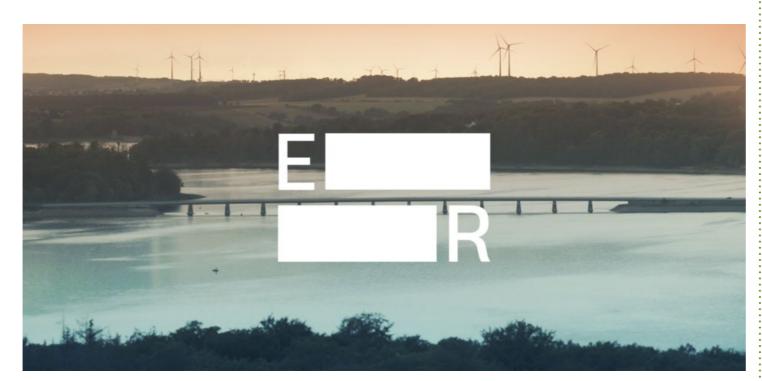
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February | E project "Evolving Regions"

Mitigating the Effects of Climate Change



Four years ago, seven counties in North Rhine-Westphalia and two Dutch municipalities embarked on the EU- and NRW-funded project "Evolving Regions" to become climate-robust. At a closing event, the project team took stock: Under the leadership of the Sozialforschungsstelle (sfs) (Social Research Center), nearly 100 actors in each region developed compre-

hensive "roadmaps"—concrete plans with measures and responsibilities to mitigate the effects of climate change. Previously, the Institute for Spatial Planning, led by Prof. Stefan Greiving, had analyzed the impacts of climate change in each region.

July | Book publication

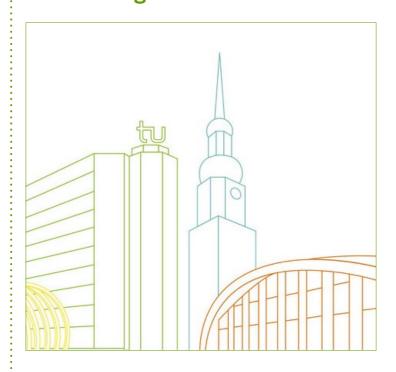
Sociologist Questions Ambivalent Treatment of Animals



Some are part of the family, others are slaughtered: Dr. Marcel Sebastian from the Department of Social Sciences explores the differing societal roles of animals in his new book "Petting or Slaughtering: Why Our Relationship with Animals is So Complicated and What It Says about Us."

Winter semester 2022/23 | Podcast

Green, Sustainable, Climate-neutral: Making Cities Fit for the Future



What makes a city fit for the future? What are German cities doing in terms of climate protection in architecture and urban planning? Architecture students have been tackling these questions since the winter semester 2022/23. Their findings are continuously published in the scientifically-based podcast "The Green City."

August | Project "NeMo.bil"

Exploring the Social Dimension of New Mobility

A consortium of industry and sciences is developing a swarm-capable mobility system in the project "NeMo.bil," which aims to create a new form of sustainable and demand-oriented passenger and goods transport in rural areas: Small "cabs" (pictured) form convoys to reduce costs and emissions. The federal government is funding the project with around 30 million euros until 2026. Prof. Johannes Weyer from the Department of Social Sciences is involved in NeMo.bil to research the social dimensions.

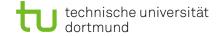


Winter semester 2022/23 | Project "Holdings as a Resource"

How Old Warehouses Can Be Repurposed

A research team is exploring the topic "Holdings as a Resource": Scientists from the Department of Spatial Planning, led by Nina Hangebruch and Prof. Frank Othengrafen, are investigating in a new project with colleagues from Ruhr University Bochum and Landmarken AG how vacant warehouses from the 1950s to 1970s can be repurposed in a climate-efficient manner. An example is a former warehouse in Herne: Here, the "New Courts" (pictured) have been created, featuring offices, gastronomy, commerce, and sports





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May | STADTRADELN action weeks

TU Dortmund University Team Undefeated



In May, over 450 students and staff from TU Dortmund University once again switch from cars or public transport to bicycles as much as possible for the nationwide STADTRADELN (City Biking) campaign. In the three weeks of action, they cycle a total of 89,006 ing within the city of Dortmund. Five university cyclists

receive the award for first place in the overall ranking (left to right): Anna Tautz, Agnes Lamacz-Keymling, Timm Treskatis, Jonas Dünnebacke, and Christoph Edeler. TU Dortmund University has been the most successful team in recent years: the university won kilometers, placing them at the top of the team rank- the title for the first time in 2020 and has defended it ever since.

January | Radio report

Joint Action for a Balanced **Ecosystem**

Initiated by the Sustainability Office, TU Dortmund University members remove invasive rush plants during a conservation action in Rombergpark, which is displacing native plants and reducing ecological diversity. Journalism student Fabian Neuenzeit produce a report on the action, broadcast on eldoradio*. His report wins the 2023 Campus Radio Award from the Landesanstalt für Medien NRW (Media Authority of NRW), one of the most prestigious awards in student broadcasting, in the University category.

June | Simulation game "sustain2030"

Understanding Sustainable Development Goals

The simulation game "sustain2030" is held in English for the first time, attracting international students and staff of TU Dortmund University. Organized by the Sustainability Office, this interactive simulation aims to deepen understanding of the 17 Sustainable Development Goals (SDGs). Participants experience the complexity of this UN program and engage with its interconnections.

December | Energy balance

Successful Savings in Heat and Electricity

In 2023, the university achieves savings of 35 percent in heat and 19 percent in electricity compared to the reference year 2018, adjusted for weather conditions. Employees significantly contributed to the heat savings by manually lowering thermostats. Additionally, the night mode is initiated two hours earlier, and the heating remained mostly in night mode during weekends. The variable ventilation in lecture halls and laboratories, as well as the energy-saving mode for the electron storage ring DELTA, play major roles in elec tricity savings.



Winter semester 2023/24 | Lecture series

Established Lecture Series on Climate Change



The digital lecture series "Climate: Change, Values, Science" enters its fourth round. This interdisciplinary program is open to all and part of the studium oecologicum. The Department of Biochemical and Chemical Engineering and the Sustainability Office are fully invited the renowned meteorologist and prejointly hosting the series for the first time in the winter semester 2023/24. The lectures provide information

on climate protection, an overview of involved actors, the consequences and risks of climate change, and insights into climate-related research from various disciplines. In January 2023, the organizers successsenter Karsten Schwanke for a well-attended lecture on climate change.



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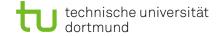
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May | Dialog with business and politics

NRW Academy Admits Prof. Heike Hanada

The Nordrhein-Westfälische Akademie der Wissenschaften und der Künste (North Rhine-Westphalian Academy of Sciences, Humanities, and the Arts) has admitted Prof. Heike Hanada (left) from the Department of Architecture and Civil Engineering as one of fourteen new members. The architect and artist was honored for her "outstanding research work and artistic excellence." Hanada has been a professor of building typologies at TU Dortmund University since 2018. As a member of the academy, she maintains dialogue with actors from politics, business, and culture.



June | Self-governance of sciences

Prof. Christian Rehtanz Newly Elected to the DFG Senate



The Deutsche Forschungsgemeinschaft (DFG) (German Research Foundation) has elected Prof. Christian Rehtanz from the Department of Electrical Engineering and Information Technology to the Senate. As a Senate member, the professor of energy systems and energy economics, who has been actively involved with the DFG for many years, can significantly influence the German research landscape.

International Association Honors Prof. Bühler

The "Association for the Advancement of Assistive Technology in Europe" (AAATE) honors Prof. Christian Bühler for his outstanding work in assistive technologies for people with disabilities, which has spanned over 30 years both nationally and internationally. The AAATE Diamond Award recognizes individuals who have made exceptional long-term contributions to the field in Europe. Bühler has been a professor of rehabilitation technology at the Department of Rehabilitation Sciences since 2004.

September | AAATE Diamond Award



Prof. Jakob Rehof Receives Computer Science Award

Summer | CAV Award



Prof. Jakob Rehof receives the CAV Award 2023 from the International Conference on Computer-Aided Verification. The award recognizes his introduction of context-bounded analysis and its application to systematic testing of concurrent programs. Rehof has been a professor of software engineering in the Department of Computer Science since 2006.

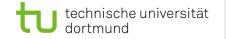
October | Innovative drug research

Prof. Herbert Waldmann Receives Otto Hahn Prize



Prof. Herbert Waldmann (right) is honored for his innovative drug research. Frankfurt City Treasurer Dr. Bastian Bergerhoff (left) presents the €50,000 Otto Hahn Prize to the professor from the Department of Chemistry and Chemical Biology at TU Dortmund University, who is also the Director at the Max Planck Institute of Molecular Physiology. Waldmann is one of

the leading researchers in his field, combining methods from both biology and chemistry and using molecular probes as powerful tools to explore biological phenomena. His work has paved the way for novel therapeutic interventions.



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December | Cultural Studies

Honorary Doctorate for Prof. Ed Folsom from Iowa



US-American literary scholar Ed Folsom is awarded an honorary doctorate from TU Dortmund University at the initiative of the Department of Cultural Studies. For nearly 30 years, he has led the partnership between the universities in Iowa and Dortmund on the American side. Folsom is an expert on the poetry of Walt Whitman (1819-1892).

June | X-ray physics

Honorary Doctorate for Prof. Helmut Dosch from DESY



At the anniversary celebration of the Department of Physics, Prof. Helmut Dosch (right) receives an honorary doctorate from the university in the presence of his wife. Dosch has been the Chairman of the Board of Directors of the Deutsches Elektronen-Synchrotron (DESY) (German Electron Synchrotron) in Hamburg since 2009. He is honored for his outstanding achievements in science and management.



October | Transformation of Higher Education

Academia Europaea Admits Prof. Leišytė



ropaea (Academy of Europe). Among the more than 5,000 members of this pan-European, non-govern- Welfare." mental association of scholars and academics, there are also 85 Nobel laureates. Prof. Leišytė focuses

Prof. Liudvika Leišytė, Professor at the Chair of Higher her research on the organizational transformation of Education and Vice Director of the Center for Higher higher education in relation to changes in the insti-Education, has been admitted to the Academia Eu- tutional environment. She joins the section "Governance, Institutions and Policies: Education, Health and



July | Drug research

Prof. Craig Crews Receives Honorary Doctorate

The Department of Chemistry and Chemical Biology personally presents the certificate, originally issued in 2021 during the COVID-19 pandemic, to Prof. Craig Crews (left) from Yale University, USA. Crews is awarded the honorary doctorate for developing a new class of drugs that can target previously "undruggable" disease-causing proteins. Additionally, the department honors Michael Beck (center) from Bayer AG as an honorary professor. Prof. Herbert Waldmann (right) delivers the laudation.

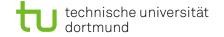


March | Highest honor

Federal Cross of Merit for Prof. Michael ten Hompel

Prof. Michael ten Hompel (right) receives the Federal Cross of Merit with riband from Dortmund's Mayor Thomas Westphal (left). The Federal Republic of Germany honors the professor of material handling and warehousing for his outstanding scientific commitment. His work focuses on areas such as Industry 4.0, the Internet of Things, and Artificial Intelligence in logistics. He is also recognized for his social engagement, including his advocacy for sustainable mobility.





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February | University Management

Three New Members in the University Council



The University Council of TU Dortmund University on the board. Prof. Johanna Weber (4th from right) is welcomes three new members: Oliver Hermes (4th from left, CEO of the WILO Group), Dr. Hendrik Neumann (3rd from right, Member of the Executive Board auditor and tax advisor in a Dortmund office) are now representing three Dortmund business personalities

elected the new chairwoman, succeeding Prof. Ernst Rank, who held the office for 15 years. Four other members complete the board: Dr. Katrin Lochte (left, of Amprion GmbH), and Elke Niermann (2nd from left, deputy chairwoman), Dr. Joann Halpern (3rd from left), Prof. Joachim Treusch (right) and Isabel Rothe (2nd from right).

1 December | 14 years in office

Chancellor Albrecht Ehlers Retires

Chancellor Albrecht Ehlers retires on 1 December after 14 years in office upon reaching retirement age. He was the fifth chancellor of TU Dortmund University. In May 2010, he took over responsibility for administration and budget management. During his tenure, Ehlers focused on strengthening financial controlling and human resources development, as well as sustainability, start-up support and internationalization. He was a member of the CET Executive Board and founded the Sustainability Working Group.



June | General Student Committee

Sarah Toepfer and Raphael Martin New AStA Chairs

The Allgemeine Studierendenausschuss (AStA) (General Student Committee) of TU Dortmund University elects Sarah Toepfer and Raphael Martin as new chairs. The two represent the students to the university management, the committees and the public. They had previously been involved in subject areas and various departments of the AStA or in the student parliament. In addition to negotiations on the semester ticket, they want to use their positions as chairs to promote sustainability on campus and make university politics more visible in everyday uni-



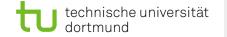
December | Obituary

Mourning the Loss of Prof. Paul Velsinger



Former President Prof. Paul Velsinger dies on 1 December at the age of 84. During his twelve years in office from 1978 to 1990, he oversaw the integration of the Ruhr University of Education into the then University president, he shaped a nationwide exemplary cooperof Dortmund, promoted the development of the tech- ation between the innovative university and a region nology center and advocated for strong networking with the city. Velsinger came to the young university in

1972. With the field of "Economics, especially spatial economic policy" in the then Department of Spatial Planning, he was one of the founding professors. As dependent on structural change.



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November | Teaching and learning in teams

Two Lecturers Win State Teaching Award



Dr. Lena Tacke (right) from the Department of Humanities and Theology and Dr. Vanessa Henke (2nd from left) from the Department of Educational Sciences and Psychology share the State Teaching Award, which is endowed with 50,000 euros: NRW Minister of Science Ina Brandes (2nd from right) presents the special prize for "Teaching and Learning in Teams" to

the two lecturers. Dr. Lena Tacke teaches theology in teacher training: In her courses, she takes up current social transformation processes in religious education, among other things. Dr. Vanessa Henke designs collaborative learning settings for future teachers, for example, at the Institute of General Didactics and School Education.

September | Awards for Master's degree

Top Graduates in Teacher Training Honored

At the graduation ceremony for teacher training students, Prof. Wiebke Möhring (r.), Vice President Academic Affairs, Prof. Stephan Hußmann, Director of DoKoLL, and Guido Baranowski (l.) from the Association of Friends of the TU Dortmund University honor the best Master's degrees of Sophie Müller Gil (2nd from right, primary school), Niklas Peters (secondary schools), Nana Seeber (grammar schools and comprehensive schools), Maren Konieczny (center, vocational colleges) and Lea Mathea (2nd from left, special education). The prize money of 500 euros each comes from the Bernd Jochheim Foundation.





22 November | Rudolf Chaudoire Award

Honors for Outstanding Postdocs



Dr. Shari Meichsner (2nd from right) from the Depart- metallo-proteins, has already financed a stay in Swement of Chemistry and Chemical Biology and Dr. Simon Wimmer (center) from the Department of Humanities and Theology receive the Rudolf Chaudoire Award in recognition of their outstanding achievements. With the prize money of 5,000 euros each, Dr. Meichsner, who researches metalation processes in

den. Dr. Wimmer will continue his work on the philosophy of ordinary language in 2024 in Great Britain and the USA. Since 1995, the Rudolf Chaudoire Foundation has already supported 58 TU scientists in realizing their research projects abroad.



October | Special international commitment

Internationalization Prizes Awarded for the First Time

At the Gambrinus Forum, the internationalization prizes are awarded in four categories. Prof. Tessa Flatten (r.), Vice President International Affairs, honors the special international commitment of Prof. Christoph Schuck (2nd from left) in teaching as well as Prof. Uwe Wilkesmann (3rd from right) and Prof. Liudvika Leišytė (center) in research. Dr. Tobias Herken (2nd from right) receives the prize in the category of transfer for his spin-off IANUS Simulation GmbH and Petra Marciniak (3rd from left) is honored from the administration for her support of EU projects.



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18 December | Teaching award

Prof. Jan Nagel Inspires His Students for Stochastics



AStA Chair Sarah Toepfer (left) presents the teaching award for "courses with more than 60 participants" to Prof. Jan Nagel (right) from the Department of Mathematics. The jury emphasizes that Nagel excellently prepares the compulsory lecture "Stochastics I" for his students and shows special commitment in their supervision.

18 December | Teaching Award

Dr. Julia Sattler Convinces with Variety in Teaching Methods



Dr. Katrin Stolz (left) presents Dr. Julia Sattler (right) from the Department of Cultural Studies with the teaching award for "courses with up to 60 participants". The jury praises Sattler's outstanding and passionate commitment to teaching and to her students, as well as the variety of teaching methods and individual support in her courses.

18 December | Academic annual ceremony

Best Students of the Year Honored

The presentation of the annual best student prizes for outstanding theses is taken over by Guido Baranowski (right), Chairman of the Association of Friends of TU Dortmund University. The prizewinners are: Helene Auguste Götz, Frederik Vonhoff, Katrin Bolsmann, Tabea Sofie Heil, Jana Kristin Gödeke, Merle Munko, Hannah Stieber, Klas Feike, Oleksii Molodchyk, Melissa Sarah Tanklay, Leon Marian Schäfer, Nina Carolin Bieling, Carlota Yoke-Lee Roth, Johannes Michael Zensen-Möhring, Magdalena Franz, Lennart Kersting, Nana Seeber and Henrik Laumert.



18 December | Academic annual ceremony

Awards for Outstanding Dissertations

Traditionally, TU Dortmund awards its prizes at the Academic Annual Ceremony. The dissertation prizes go to Dr. rer. nat. Alexander Dicke, Dr. rer. nat. Florian Mentzel, Dr. rer. nat. Elia Salibi, Dr. rer. nat. Lukas Pfahler, Dr. rer. nat. Karsten Reichold, Dr.-Ing. Lea Lynn Winand, Dr.-Ing. Kai Langenfeld, Dr.-Ing. Anika Henke, Dr.-Ing. Vanessa Hellwig, Dr.-Ing. Adam Sky, Dr. rer. pol. Miguel Krause, Dr. phil. Daria Katharina Benden, Dr. phil. Katharina Böhm, Dr. phil. Meike Neuhaus, Dr. phil. Andreas Johannes Weilinghoff, Dr. rer. nat. Mathias Kolodziej and Dr. phil. Svenja Ruth Erika Helten.



18 December | Teaching Award

Student Alina Bähr Engages in University Politics



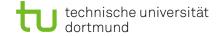
Student Alina Bähr from the Department of Cultural Studies receives the teaching award for "Student Commitment". The jury honors her diverse commitment to students, including in the AStA, the NRW State AStA Meeting and the Senate. Bähr is also committed to promoting the political involvement of students.

18 December | Teaching Award

Committed to the Digitalization of Study and Teaching



The teaching award in the category "Teaching Support Commitment of Employees from Technology and Administration" goes to Markus Alex, Volker Mattick and Andrea Martin from the ITMC as well as Dr. Katrin Stolz and Dr. Stephanie Steden from the Center for Higher Education. Their commitment to the digitization of teaching and learning is honored.



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August | Start into working life

TU Dortmund University Welcomes 36 New Trainees

A total of 36 young women and men are starting their traineeship at TU Dortmund University in eleven different professions. The introductory week also includes an excursion to Hachen including a canoe trip to get to know each other and their new superiors. In total, the university currently trains up to 130 young professionals in 17 fields of work, for example as chemical laboratory assistants, IT specialists, technical product designers or media designers. This makes it one of the largest training companies in the city.



Beginning of the year | Performance competition

Tobias Hugendick is NRW State Champion



Model builder Tobias Hugendick from the Department of Architecture and Civil Engineering impresses with his journeyman's piece, a model of a façade construction, in the German Craftsmanship Competition. He takes first place in the profession of model building at both guild and chamber level as well as at state level.

November | Top grade

Jana Witt Is Among the best **Trainees in Germany**



The Chamber of Commerce and Industry honors trainee Jana Witt as one of the best in her field at state and federal level. Witt completes her training as a media designer for image and sound at the Institute for Journalism in 2023 with a grade of "very good". For her final project, she shoots a film for the TV learning channel NRWision on the topic of wheelchair basketball.

April | Lecture at the Literaturhaus Dortmund

Andy Markovits Appointed "Football Professor"



Well-known football expert Andy Markovits (left) pre- ball. He was already a guest in Dortmund in 2006 sents his new autobiography "The Passport as Home: for the World Cup. With a view to the 2024 Europe-Comfort in Rootlessness" at the Literaturhaus Dort- an Championships for men and 2025 for women, TU mund. Born in Romania and raised in Austria, Markovits is Professor of Political Science, Sociology and "Professor of Football Studies" for the upcoming German Studies at the University of Michigan in the "championship season". USA and has devoted his research intensively to foot-

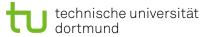
President Prof. Manfred Bayer appoints Markovits

Autumn | Career orientation

Trainees Become Ambassadors for Their Profession

Trainees Eric Zauche (right), Markus Kellerhoff (center) and Sebastian Doert (2nd from left) are committed to being ambassadors for their training professions. Zauche and Kellerhoff are also honored by the Dortmund Chamber of Commerce and Industry for this special commitment. The team informs schoolchildren about different apprenticeships and shows what opportunities are available after leaving school. Zauche and Kellerhof are training as IT specialists for system integration, Doert as electronics technician for devices and systems.





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Winter semester | Lecture series

Image and Sound Addresses the "Twenties"

The public lecture series "Image and Sound" of TU Dortmund University, in cooperation with the Dortmund City Archives and the St. Reinoldi City Church, focuses on the "Twenties" of different centuries in the winter semester 2023/24. The lectures deals with topics such as the Weimar Republic, the Dortmund U built in 1925/26, the early 15th century or the altarpiece in the Reinoldi Church. The dialogue between history, art and musicology brings TU Dortmund University into the city, with the Reinoldi Church becoming a lecture hall.





30 October | Gambrinus Forum

Lectures Bring Research into the City



TU Dortmund University invites representatives of the city society to the Gambrinus Forum: For the 27th time, it welcomes numerous guests to the Westfälischer Industrieklub (Westfalian Industry Association) for scientific lectures that stimulate international and interdisciplinary exchange. Prof. Elsa Sánchez García (center) from the Department of Biochemical and Chemical Engineering talk about computer-aided drug

research. Prof. Norbert F. Schneider (r.), President of the Deutsche Gesellschaft für Demographie (German Society for Demography), gives a lecture on the understanding of childhood and parenthood in Germany. On behalf of the Rectorate, Prof. Manfred Bayer (l.), Prof. Petra Wiederkehr (2nd from left) and Prof. Tessa Flatten (2nd from right) welcome the guests.

Winter and summer semesters | Between bread rolls and Borussia

Public Lectures on Modern Physics



The entertaining lecture series "Saturdays between Bread Rolls and Borussia: Modern Physics for Everyone" at TU Dortmund University also answers unusual physics questions in 2023: The lectures in the summer semester is on the topic of astrophysics – here, and are aimed at both adults and children and young researchers explain, for example, how astronomy influences the plant world or what cosmic radiation is

all about. The winter semester deals with questions such as how beer foam forms and what has happened in the universe since the Big Bang. All events can be attended both on campus and streamed live online

Winter and summer semesters | KinderUni

Children Learn Exciting Things about Science

The KinderUni (Children's University) of TU Dortmund University will once again offer a wide range of programs with varied topics in 2023. The events are designed for children between the ages of eight and twelve and convey fascinating aspects of science in a fun way. They take place on campus or in the city center - for example in the NRW Architectural Archives or in the Reinoldi Church. Children can choose from the four thematic complexes "Knowledge is Fun", "Sustainable Economy", "Discover Dortmund and "Technology is Fun".



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14 June | 6th Dortmund Science Conference

Program Dedicated to the "Energy Future"



As part of the 6th Dortmund Science Conference, TU Dortmund University researchers work together with other experts from science, the city and industry to design the program on the topic of the energy future. In addition to speakers and panel guests, start-ups are also involved in the conference. The contributions deal with, among other things, how science, the city

and industry can work together to develop solutions for a climate-neutral and at the same time secure and economically viable energy supply. Prof. Henrik Müller from the Institute for Journalism moderates the event, Prof. Christian Rehtanz (photo), Director of the Institute for Energy Systems, Energy Efficiency and Energy Economics, gives the keynote lecture.

September | Dortmund Digital Week

Action Days on "Innovations from the Neighborhood"

The Dortmund Digital Week 2023 takes place under the motto "Innovations from the Neighborhood". For the seventh time, there are over 150 events, workshops, presentations and conferences on the topic of digitization throughout the entire city of Dortmund for six days. From TU Dortmund University, the Lamarr Institute for Machine Learning and Artificial Intelligence, the Center for Entrepreneurship and Transfer and the Institute for Journalism are involved in the diverse range of offerings, among others.

7 September | 18th DortmunderAutoTag

Insights into the Mobility Trends of Tomorrow

The Department of Control Systems Engineering invites you to the 18. *DortmunderAutoTag* (18th Dortmund Auto Day) at the Dortmund Chamber of Commerce and Industry. In lectures and a trade exhibition, experts from science, industry and production provides exciting insights into current research work and future developments in the automotive industry and the mobility transition. This year's topics include Artificial Intelligence, automated driving and electro-mobility.

June | Master plan Science 2.0

"DemokratieDISKURSE" with Citizen Launched

DemokratieDISKURSE (DemocracyDISCURSES) is a new series that is being carried out by the Initiative Center for Political Education and Municipal Democracy at TU Dortmund University and the Dortmund City Archives as part of the Master Plan Science 2.0. The aim is to discuss current socio-political issues together with experts and citizens in the middle of the city. The kick-off event take place in the *Projektor – Raum für Innovationen und Zusammenarbeit* (Projector – Space for Innovations and Cooperation) on Westenhellweg and is dedicated to the question of "How much opinion can democracy tolerate?".



January | Traffic assessment

H-Bahn Route Extension Considered Sensible



Two traffic assessments come to the conclusion that the extension of the *H-Bahn* route is economically sensible. The extension from the university campus to the U42 light rail line in Barop could go into operation by 2030. The expansion of the *H-Bahn* is to play a key role in sustainably strengthening public transport and climate-friendly mobility. The NRW Ministry of Trans-

port had already made more than 700,000 euros available in 2021 for planning services for two expansion projects. According to the *Dortmunder Stadtwerke* (DSW21) (Municipal Utilities), the next step is to clarify financial and technical issues. This includes, for example, the development of a new automation system.

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November | Fan merchandise

New Scarfs Unites TU Dortmund University and BVB

To keep warm in the stadium or at official events: a new scarf unites the logos of TU Dortmund University and Borussia Dortmund. The official green-black-yellow fan product is available in an initial edition of 3,000 copies online in the campus shop or in the Dortmund University bookstore in the foyer of the canteen. TU President Prof. Manfred Bayer had already presented the prototype of the new accessory at the start of the winter semester during the freshman welcome in the Signal Iduna Park, BVB's home stadium.





January | Study

How Residence Contributes to Identification



Dr. Sorush Sepehr of the University of Technology Sydney, who was a visiting scholar at TU Dortmund University in 2018, publishes a study in the *Australasian Marketing Journal* together with Prof. Hartmut Holzmüller of the Department of Business and Economics and Dr. Philip Rosenberger III of the University of Newcastle. Under the title "City, Consumption and

Inter-culturalism: How Cities Can Facilitate Consumer Acculturation", the group has investigated the role of cities in the cultural integration of immigrants. To do this, they interviewed Iranian-born immigrants living in Dortmund and found that city-related activities can contribute to identification with the host society.

October | Panel discussion

The Media Industry is Full of Innovation Potential



During an innovation week at the Center for Entrepreneurship and Transfer, students from the Institute of Journalism develop new, target group-oriented formats for local and regional journalism. The program also includes a public panel discussion in which experts from the industry exchange ideas at the Dortmunder U. Throughout the year | "StadtBautenRuhr"

Digital Exhibition on Urban Buildings in the Ruhr Area



A research project by TU Dortmund University, the *Baukunstarchiv NRW* (Art of Architecture Archives NRW), and the Museum Folkwang Essen investigated from 2019 to 2022 how urban buildings in the Ruhr area had an impact on identity formation. The accompanying digital exhibition *StadtBautenRuhr* (CityBuildings-Ruhr) shows plans, sketches and old and new photographs from the collection of the *Baukunstarchiv NRW*.

November | Anniversary event

Baukunstarchiv in the City Center for Five Years

In 2018, the *Baukunstarchiv NRW* (Art of Architecture Archives) opened its doors in Dortmund city center. Together with Ina Scharrenbach (3rd from right), NRW Minister for Home Affairs, Communities, Building and Digitization, Dortmund's Lord Mayor Thomas Westphal (center) and numerous guests, the shareholders of the *Baukunstarchiv* look back on the work of the past years. Under the scientific direction of TU Dortmund University Professor Wolfgang Sonne (right), the archive documents estates and legacies from architecture, urban planning and structural engineering in NRW.



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Exhibition on the University Floor in the Dortmunder U

BCI Poster Exhibition

January-February: Freshmen from the Department of Biochemical and Chemical Engineering (BCI) have worked on practical projects under the guidance of research assistants as part of the event "Project Work: Introduction to Process Engineering Production". They will present their results in a poster exhibition - from organic solar cells made from microorganisms to mRNA technology for vaccines to 3D-printed meat.



Engineering Meets Art

March-April: In the seminar "Engineering meets Art", students from engineering, art history, mechanical engineering, and rehabilitation sciences have developed joint art projects under the guidance of Dr. Maik Hester. The installations are under the motto "make it sound" in 2023 and invite visitors to experience music and the sounds in their environment in new contexts.





SportDatenGrafiken

April-May: Students of the interdisciplinary seminar "Sport and Statistics", which was offered by the Department of Statistics together with the Institute of Journalism, have used statistical methods to investigate common sports myths, such as the home advantage in football matches. They present their results in the exhibition SportDatenGrafiken: Was Statistik über den Sport erzählt (SportDataGraphics: What Statistics Tell Us about Sport) in journalistic articles and infographics.



f2 Photo Festival

June-July: The photography and multimedia work areas at the Academy of Fine Arts are once again participating in the f2 Photo Festival, which will take place in 2023 on the theme of "Globality". The students' works have dealt with the location of people, the internationally networked world of goods and the global aspects of life in the city of Dortmund.



tific essays, students from the photography and art history work areas have dealt with ways of perceiving and conceptualizing the urban. The exhibition presents unusual perspectives on Dortmund's city center as well as theoretical approaches that offer a variety of insights into urban experiences in a joint format.

Fenster/schau (Windows/exhibition) August-October: In photographic works and scien-



Art Tour

July: To conclude the summer semester, the exhibition shows outstanding works by art students. This year, the Rectorate awards the TU Dortmund University art prizes to Merve Baran (photography), Nele Theede (graphics), Hanna Kasperidius (painting), Moritz Ehling (sculpture) and Malin Emming (edition award).



Cultural Participation and Heterogenity

November-January 2024: An interdisciplinary project of the Academy of Fine Arts and the Department of Rehabilitation Sciences has developed concepts for how inclusive (architectural) cultural education can be mediated. The results, such as a tactile model of the St. Reinoldi City Church from the model building workshop, enable self-experiences and discussions about inclusion and participation in cultural heritage.



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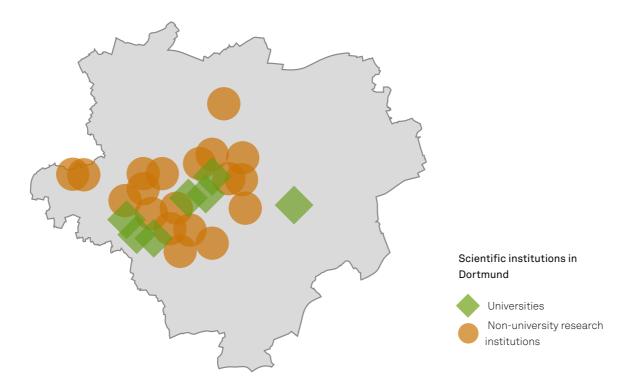
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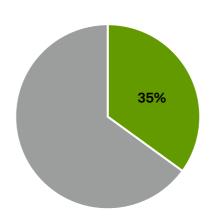
Dortmund as Science City

Dortmund is a science city with seven universities and around 20 non-university research institutions. In 2013, science, business and urban society joined forces in the Masterplan Science and have since pursued the goal together of positioning Dortmund even more strongly as a place for science and research.

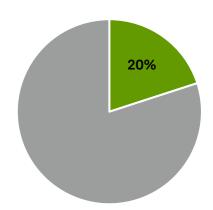


TU Dortmund University – The City's Largest Scientific Institution

More than 52,800 students are enrolled at the seven universities in Dortmund. That is more than in Heidelberg. Around 60 percent of them study at TU Dortmund University. The universities and scientific institutions in the city employ about 10,200 people, almost two thirds work at TU Dortmund University.



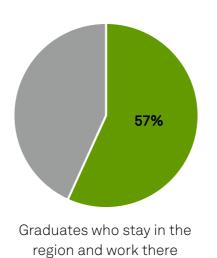
High school graduates from Dortmund who start a degree program at TU Dortmund University



Students at TU Dortmund University who attended high school in Dortmund

Popular Among High School Graduates from Dortmund

Over a third of all high school graduates from Dortmund choose to study at TU Dortmund University. A total of 20 percent of all TU students graduated from high school in Dortmund.





heart of North Rhine-Westphalia

Many Graduates Stay in the Region

Around 4,000 students graduate from TU Dortmund University each year. More than half of them then stay in the region and work there, as a graduate study by TU Dortmund University shows.



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Further information and sources

Further extensive statistical information can be found in the two publications "Data & Facts" and "Student Statistics", which are published by the Statistics division of the Department of Department of University Development and Organization at TU Dortmund University.

Links to further information:

www.tu-dortmund.de/universitaet/infomaterial-und-downloads/ www.service.tu-dortmund.de/group/intra/studierendenstatistiken Order print copy: statistik.dezernat2@tu-dortmund.de



Most of the data published here is collected by TU Dortmund University itself. Please note: The graduate figures are provisional, as of: June 2024 (page 22, right).

Further sources:

Page 34: University Alliance Ruhr, coordination

Page 49 bottom left: The Student Survey in Germany" (2021), own calculation with weighted data

Page 65 bottom left: City of Dortmund, Office for Affairs of the Mayor and the Council

Page 65 top right: among others, City of Dortmund, Dortmund Statistics Office, average of the last five Abitur years

Page 65 bottom right: Graduate surveys of TU Dortmund University in the Collaborative Graduate Studies Project (KOAB), carried out by the Institute for Applied Statistics (ISTAT-Kassel), examination years 2018 to 2022

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