

Dear members, friends and supporters of TUM: Junge Akademie,

Learning from Nature. What a great and appealing call! 110 applicants submitted their proposals for the TUM: Junge Akademie 2022. The call has attracted mainly engineers and natural scientists, along with students who represent the entire portfolio of our university. The call for proposals not only fits perfectly into our [TUM Agenda 2030](#), in which we address Human Centered Engineering and Future Design, but also into our [sustainability strategy](#) which shows how we intend to address the sustainable development goals.

The continuously evolving formats and the interdisciplinary teams we have in the TUM: Junge Akademie should provide inspiration for new approaches and sound competencies in problem-solving strategies for "wicked issues" and difficult conflicting goals.

We are excited to learn about the outcome of the clustering of new ideas from the applicants for the TUM: Junge Akademie 2022 and look forward to an interesting next cohort next year.

In the meantime, I wish you good progress with the ongoing projects and a successful start into the winter semester. I hope you had a good time between semesters and are looking forward - as I am - to a new start with fruitful exchanges, exciting lectures, great teamwork... and new perspectives on problem-solving.

With kind regards

Gerhard Müller

## TUMJA News



TUMJA Symposium  
online, interactive,  
and also LIVE at  
Audimax

Coming soon

### TUMJA Symposium 2021 on October 30

Celebrate Creativity this year at the TUMJA symposium on October 30! After last year's virtual online streaming of the event due to the Covid-19 pandemic, we are pleased to announce that this year's symposium will be online, interactive, and also LIVE at the Audimax.

Join us for an evening filled with arts and technology where we explore the creativity of TUM together with the group of 42 scholarship holders of the TUMJA class 2020!

[Register here!](#)



TUM Science Hack  
2021-2: Human-  
Centered Technology

Are you ready for The next TUM: Science Hackathon?

### TUM: Science Hackathon 2021– Season 2

TUMJA invites all students and Ph.D. students from all universities of Munich to participate in the Science Hack 2021 that focuses on "Human-Centered Technology". Students can display their creativity, passion, and problem-solving skills to solve challenges provided by the industrial partners Altair, ITK Engineering GmbH, ITQ GmbH, Pixida, ProSiebenSat.1 Media SE, Sigfox Germany GmbH, SWM, as well as additional challenges from three chairs/professorships of TUM – the Professorship of Precision Agriculture, Chair for Traffic Engineering and Control, and the Professorship of Production & Technology in the Media Sector/BR.

For the first time, students and Ph.D. students of the EuroTeQ-partner universities can also participate!

Applications open until November 5, 2021!

[Register now!](#)

Submit your ideas now!

## Call for ideas: Leave no waste behind

TUM, together with five European partners, realize the EuroTeQ project, which focuses on challenge-based learning. As a first step, students of all partner universities are invited to share their ideas regarding the call [Leave no waste behind](#).

The call for ideas is open until October 31!

[Share your future ideas now](#)

elecTUM from class 2021

## Are online lectures more energy-saving than attending a lecture hall?

As part of the Corona Pandemic, the research team [elecTUM](#) of TUMJA class 2021 would like to find an answer to this question. To present a meaningful result, the team relies on your numerous participation in their newly launched survey. Take 5 minutes of your time and help them reach this goal. Stay tuned! If you want to know more, you are welcome to visit the team's website: [ja.tum.de/ja/climate/](http://ja.tum.de/ja/climate/)

[Take part in the survey](#)

Socio-ecological challenges and transformation in society

## Cross Challenge 2021: Caring Co-Existence Kicks Off

20 students in the higher semesters will take part for four months in the first-ever Cross Challenge with the theme "Caring Co-Existence" this year! Five students per university – TUM, the Academy of Fine Arts Munich, the University of Television and Film Munich as well as the University of Music and Performing Arts Munich – were selected as group members for this year's challenge, which kicked off on October 21-23, 2021.

[Read more](#)

The adventure continues with our industrial partner Pixida

## Cooperation with Pixida GmbH for the 6th year!

TUMJA has signed a contract with its industrial partner Pixida GmbH for the 6th year! Pixida GmbH has always been a reliable partner of the TUM: Junge Akademie and supports individual teams with its expertise in software development. Pixida also takes part in the annual TUM Science Hack in addition to other joint campaigns.

[More about our partnership](#)

42 student initiatives presented their work

## Successful second edition of M!A

On October 21, the second edition of M!A attracted around 145 participants, who listened to the 90-second pitches of overall 42 student initiatives. After the joint session, every initiative welcomed interested students in individual sessions. Many thanks to the organizing team from Fachschaft TUM SOM, VMSI, and TUMJA for the great collaboration!

[More about M!A](#)



Call for future ideas 2021



QR-code to the survey



A joint trans-disciplinary project between 4 universities



TUMJA Industrial Partner Pixida GmbH



M!A online session

## Alumni presented



Dr. Cora Uhlemann

## Physics, mathematics, and cosmology: Interview with Cora Uhlemann

Cora Uhlemann is an alumna of the predecessor program of TUM: Junge Akademie. After graduating from TUM in physics and mathematics and completing her doctorate in cosmology at LMU, she worked at the Utrecht University, then at the Stephen Hawking Center for Theoretical Cosmology in Cambridge. She is currently an Assistant Professor at Newcastle University, where she is a part of the Theoretical Cosmology and Observational Astronomy Research Group.

[Read the interview](#)

## Project News

### News from class 2021

#### CreaThesis

At the moment, we refine our website and our marketing/social media campaign until we can finally launch it in the beginning of the new term. In the meantime, we have chosen and designed the questionnaires to answer our research question.

#### Culture

After gaining valuable insights from our exploratory survey, we are currently optimizing the design of our posters and our final survey. In the next step, we will be launching the survey and testing whether our goal is reached: Encouraging people to consider different perspectives when forming opinions about other people.

#### Education

This November means the start of real-world testing for our matching service. We look forward to receiving specific feedback from think-out-loud test persons, matching our first students, and collecting preliminary data for our research report.

#### elecTUM

During the last month, we focused on preparing our student survey concerning their commute means/time and their attitude towards online courses. This is a major step to generate the data for our calculator. The survey form has now been finished and is launched for its test phase. We expect the first results during the next month and are now concerned about the database implementation.

#### Proactivation

Over the last few months, we have been working hard to realize our goal of supporting students in their fight against procrastination. Students often suffer from procrastination and its consequences, namely poorer academic performance, as well as poorer physical and mental health. That's why we have started producing short educational videos that together will form a web-based anti-procrastination course. Check out [proactivation.choachannel.com](http://proactivation.choachannel.com) or follow our Instagram account [tum.proactivation!](https://www.instagram.com/tum.proactivation/)

### News from class 2020

#### AppCycle

We have successfully handed in our research report and enjoying the last moments of TUMJA. Right now we are mainly focused on producing the final video for the symposium and making plans regarding the future of our created app.

#### Clarify

Since we have already handed in our research report and project book submissions, most of our efforts have been directed at creating a video for the upcoming Symposium. We hope to see you all soon!

#### Exhibition Fish

In close cooperation with Team ExFish, two emerging Munich artists shed light on the "Privacy Paradox" in an artistic way. The result is the musical short film project "The Human Algorithm", which will premier at the symposium on October 30.

#### Lacktivity

Lately, we have been busy with the analysis of our survey and results are in! Motivational posters work best to spontaneously increase physical activity during the workday. Now, we are eager to show you the rest of our results during the symposium.

[More about the projects](#)

# News from the Taskforces

## Event

In September, we organized a visit to the exhibition "The Mystery of Banksy – A Genius Mind" with a talk to a representative of the exhibition management. The cultural highlight in October was our visit to the "Lange Nacht der Münchner Museen". Now we are looking forward to organizing events for and with the new TUMJA-class.

## Marketing

We have recently finished the Marketing for the Science Hack, an Alumni Interview, and represented the TUM: Junge Akademie at the TUM Prelude Fair. For the near future, Taskforce Marketing is planning a Corporate Identify Workshop to develop new ideas for the branding of the TUMJA for future events.

## Members

Currently, we are working on the selection of the candidates for class 2022 "Learning from Nature". This exciting call is also the theme of our Selection Days in October. We are very excited to get to know our new TUMJA members.

## Mentoring

We are in the middle of the third round of the TUMJA Mentoring Program and are looking forward to our interim event in early November, where we will meet in person for the first time.

## Symposium

Our taskforce is in the critical phase of planning this year's [Arts & Technology – Celebrate Creativity Symposium](#). We are working closely with our keynote speakers and the six project teams to provide an amazing evening. Furthermore, we are in continuous exchange with our technical partners to guarantee a smooth running hybrid event – in person at the TUM audimax and via live stream. See you all on October 30!

[More about the taskforces](#)

## Safe the Date @ TUMJA

**October 30, 2021:** [Symposium for the Class 2021](#)

**Until November 5, 2021:** Registration for the [TUM: Science Hackathon 2021 – Season 2](#)

## Safe the Date @ partners

[acatech am Dienstag](#) – Weekly discussions on controversial technical topics. Upcoming online-sessions:

**October 26, 7.30 PM:** [Industrie 4.0 – Blick zurück und nach vorn](#)

**November 9, 7.30 PM:** [Quo vadis Elektroantrieb? Chancen und Herausforderungen ressourcenschonender Batteriekreisläufe](#)

**November 16, 7.30 PM:** [Was ist Technik – und was ist der Mensch? Der Mensch im Spiegel der Technik](#)



TUM: Junge Akademie

## Site notice

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