

Research Associate (m/f/d) on Analytics in Court Operations – TUM School of Management (Pay group TV-L E13, 75%)

We are looking for a doctoral student (m/f/d) in the field of **Operations Research and Analytics** at the TUM School of Management, TUM Campus Heilbronn, under the supervision of Prof. Jingui Xie, and in collaboration with Prof. Galit Yom-Tov from the Faculty of Data and Decision Sciences, Technion - Israel Institute of Technology. The candidate is expected to conduct research and advance knowledge in the topic of court operations using methodologies from the fields of stochastic modelling, optimization, and data analytics. The position is available from January 2026 and is fixed for a term of 3 years, with the possibility of extension. As part of this role, candidates will have the opportunity – and are encouraged – to pursue a doctoral degree. In addition to research, the fellow will also take on teaching responsibilities.

About us

The **Technical University of Munich (TUM)** is one of the top world universities. It is committed to excellence in research and teaching, interdisciplinary education and the active promotion of promising young scientists. The university also forges strong links with companies and scientific institutions across the world. TUM was one of the first universities in Germany to be named a University of Excellence. Moreover, TUM regularly ranks among the best European universities in international rankings. TUM School of Management is redesigning its teaching and research in the field of Business Administration at the TUM Campus in Heilbronn in the light of the digital transformation. This is a once-in-a-lifetime opportunity, a chance for us to bring together unique expertise in analytics, big data, AI, and digitalization. The TUM Campus Heilbronn is an open, flexible organization whose goal is to achieve excellence in research, teaching and impact.

Prof. Dr. Jingui Xie from the TUM School of Management specializes in Business Analytics and Service Management. He explores how data analytics and stochastic models can enhance healthcare and service systems. His other research includes joint prediction and optimization, queueing game, and reinforcement learning. Prof. Jingui Xie has published his work in leading operations research journals, including Management Science, Manufacturing & Service Operations Management, Operations Research, and Production and Operations Management. More information can be found [here](#).

Prof. Dr. Galit Yom-Tov focuses on operations of service systems. Currently, Prof. Yom-Tov is the co-director of the SEE-Lab (Service Engineering Enterprise) – a worldwide data hub for research and teaching in Service Engineering. Her research aims to build models for understanding the impact of customer and agent behavior on service systems and to incorporate these behaviors into operational models of such systems. Her multidisciplinary research approach applies a combination of Data Science and Stochastic Modeling to archives of digital traces from service systems. Her recent work used such data to study the dynamics of customer emotions in contact centers, the reaction of customers to waiting announcements in emergency departments, as well as other aspects of service delivery. Prof. Yom-Tov has published her work in leading operations research journals, including Management Science, Manufacturing & Service Operations Management, Operations Research, and Stochastic Systems. She served as an AE for the journals Manufacturing & Service Operations Management, Operations Research, and as a guest editor for a special issue in Operations Research. More information can be found [here](#).

Your tasks...

- Constructing a theoretical framework that applies analytics and modelling in public sectors; analyzing court operations data to support decision makers
- Spending research stays at Technion - Israel Institute of Technology for conducting research at the SEE-Lab when necessary and possible
- Participation in high-quality research projects aimed at publication in top international journals
- Presentation of research findings at international conferences
- Teaching to the extent of 3.75 semester hours per week at TUM Campus Heilbronn
- Supervision of Bachelor's and Master's students

Your profile...

- You must (or will soon) have a master's degree in one of the following areas: Industrial Engineering, Operations Research, Management Science, Analytics, Data Science from a university/department with a strong international research reputation. You must have a bachelor's degree with solid training in the above areas in a well-known university/institute.
- Profound knowledge in Operations Research, Management Science, Analytics, Data Science, Artificial Intelligence, and/or Behavioral Research
- Basic knowledge in public sector operations management
- Strong interest in operations research and analytics with application in public service.
- Knowledge in and practical experiences with programming (e.g., Python, Java, Julia, etc.)
- A strong interest in scientific research with the goal of obtaining a doctoral degree
- High motivation and enthusiasm for working in an interdisciplinary research environment

We offer...

- A position as academic staff with the opportunity to pursue a doctoral degree, starting from January 2026
- The prospect to create and teach knowledge about current issues within the framework of business analytics
- An excellent working atmosphere in a success-oriented team, and the opportunity to experience and shape exciting research projects
- A welcoming, interdisciplinary research community at the Center for Digital Transformation, with 5 professors and an expanding team of PhD students
- Participation in international conferences

TUM is committed to increasing the representation of women in its workforce and strongly encourages applications from qualified female candidates. Candidates with disabilities will be given preference in the case of equivalent qualifications. The position can also be filled on a part-time basis. Remuneration is based on the collective wage agreement of the federal states (TV-L E13), depending on qualifications.

Application process

We look forward to receiving your detailed application by **7 September 2025**. Please submit the following documents as a single PDF file via e-mail to bewerbungen.cdt@mgt.tum.de, using the subject line: **"Business Analytics"**:

- A one-page cover letter outlining your motivation, interests, general qualifications, and academic goals
- Curriculum vitae (CV), including university rankings for all degrees (if available), a list of core courses relevant to the research project with corresponding grades, standardized test scores (IELTS, TOEFL, GRE), GPA and class ranking (if available), as well as any academic awards or distinctions.
- Academic transcripts and degree certificates
- IELTS/ TOEFL/GRE certificates (if available)
- Two reference letters from university professors (if available)

If you have any questions, please contact Ms. Corina Häußermann (bewerbungen.cdt@mgt.tum.de).

Data Protection

As part of your application, you provide personal data to the Technical University of Munich (TUM). Please view our privacy policy on collecting and processing personal data in the course of the application process pursuant to Art. 13 of the General Data Protection Regulation of the European Union (GDPR) at <https://portal.mytum.de/kompass/datenschutz/Bewerbung>. By submitting your application, you confirm to have read and understood the data protection information provided by TUM.