

# Julian Rosenberger — Curriculum Vitae

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## Education

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- since Sept 2022      **PhD Researcher in Information Systems**, University of Regensburg & TU Dresden  
Dissertation: *The Role of Interpretability in Human–AI Interaction*  
First supervisor: Patrick Zschech    Second supervisor: Mathias Kraus
- Sept 2021 – Jan 2022      **Exchange Semester (Computer Science)**, University of Southern Denmark, Odense
- Oct 2020 – Mar 2023      **M.Sc. International Information Systems**, FAU Erlangen–Nuremberg  
Thesis: *Interpretable Machine Learning for Length-of-Stay and Mortality Prediction in ICUs – From Understanding to Achieving Model Interpretability*
- Oct 2015 – Sep 2018      **B.A. Economics (Insurance)**, DHBW Mannheim  
Thesis: *Acceptance of AI in the Form of Digital Assistants in the Insurance Industry.*

## Employment

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- since May 2024      **Doctoral Researcher**, Chair for Explainable AI in Business Value Creation, University of Regensburg. Prof. Mathias Kraus  
Pre-registered user studies ( $N > 250$ ) on transparency, adjustability, and personalisation in interpretable ML. Development of GAMs, contextual bandits, and LLM-based conversational explainability systems.
- Sept 2022 – May 2024      **Doctoral Researcher**, Junior Research Group on White-box AI, FAU Erlangen–Nuremberg. Prof. Mathias Kraus, Prof. Patrick Zschech  
Initiated doctoral research on interpretable ML, human–AI collaboration, and trust calibration. Conducted behavioral experiments.
- Mar 2021 – Aug 2022      **Research Assistant**, FAU Erlangen–Nuremberg  
Research in computer vision and NLP. Supported “Introduction to Computer Science” (80+ students); designed tutorials on programming fundamentals based on Harvard’s CS50.
- Dec 2020 – Apr 2021      **Product Design & UX Research**, Allianz Global Digital Factory, Munich  
UX research, design tool evaluation, wireframe-to-screen workflows. Product Owner for “Allianz Future App”.

## Publications

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- 2026      Bohlen, L., J. Rosenberger, N. Hambauer, D. Zähringer, V. Franz, P. Zschech, and M. Kraus. *Toward Generalizable and Interpretable Machine Learning Models in Healthcare: Insights from ICU Outcome Predictions. Health Care Management Science*. In press.
- 2026      Rosenberger, J., S. Kuhlemann, M. Kraus, P. Zschech, and V. Tiefenbeck. *Understanding Data-Sharing with AI Systems: The Roles of Transparency, Trust, and the Processing Entity. Pacific Asia Journal of the Association for Information Systems (PAJAIS)*. In press.
- 2025      Bohlen, L., S. Kruschel, J. Rosenberger, P. Zschech, and M. Kraus. *Overcoming Algorithm Aversion with Transparency: Can Transparent Predictions Change User Behavior? Wirtschaftsinformatik 2025 Proceedings*.

- 2025 Gümmer, P., J. Rosenberger, M. Kraus, P. Zschech, and N. Hambauer. *Unveiling Location-Specific Price Drivers: A Two-Stage Cluster Analysis for Interpretable House Price Predictions*. *Wirtschaftsinformatik 2025 Proceedings*.
- 2025 Kruschel, S., L. Bohlen, J. Rosenberger, P. Zschech, and M. Kraus. *Quantifying Visual Properties of GAM Shape Plots: Impact on Perceived Cognitive Load and Interpretability*. *Proceedings of the 58th Hawaii International Conference on System Sciences*, pp. 1410–1419.
- 2025 Pätz, L., M. Beyer, J. Späth, L. Bohlen, P. Zschech, M. Kraus, and J. Rosenberger. *Analyzing German Parliamentary Speeches: A Machine Learning Approach for Topic and Sentiment Classification*. *Wirtschaftsinformatik 2025 Proceedings*.
- 2025 Rosenberger, J., P. Schröppel, S. Kruschel, M. Kraus, P. Zschech, and M. Förster. *Navigating the Rashomon Effect: How Personalization Can Help Adjust Interpretable Machine Learning Models to Individual Users*. *European Conference on Information Systems (ECIS) 2025 Proceedings*.
- 2025 Rosenberger, J., L. Wolfrum, S. Weinzierl, M. Kraus, and P. Zschech. *CareerBERT: Matching Resumes to ESCO Jobs in a Shared Embedding Space for Generic Job Recommendations*. *Expert Systems with Applications* 275.
- 2024 Bohlen, L., J. Rosenberger, P. Zschech, and M. Kraus. *Leveraging Interpretable Machine Learning in Intensive Care*. *Annals of Operations Research*.
- 2024 Hofmann, S., C. Sommermann, M. Kraus, P. Zschech, and J. Rosenberger. *Hate Speech and Sentiment of YouTube Video Comments From Public and Private Sources Covering the Israel-Palestine Conflict*. *Wirtschaftsinformatik 2024 Proceedings*.
- 2024 Rosenberger, J., S. Kuhleemann, V. Tiefenbeck, M. Kraus, and P. Zschech. *The Impact of Transparency in AI Systems on Users' Data-Sharing Intentions: A Scenario-Based Experiment*. *Wirtschaftsinformatik 2024 Proceedings*.

## Work in Progress

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- 2026 Overreliance and illusions of understanding in AI-assisted decision-making  
 Conversational and interactive approaches to explainable AI  
 The role of explanation scope and representational format in human–AI collaboration

## Selected Talks & Presentations

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- Jun 2025 **ECIS 2025**, Amman — *Navigating the Rashomon Effect: How Personalization Can Help Adjust Interpretable Machine Learning Models*
- May 2025 **OJA Forum (Bertelsmann Stiftung)**, Online — *Beyond Ad Matching: Using CareerBERT to Map Resumes to ESCO Job Categories* (invited talk)
- Jan 2025 **HICSS 2025**, Hawai'i — *Quantifying Visual Properties of GAM Shape Plots*
- Sept 2024 **WI 2024**, Würzburg — *The Impact of Transparency in AI Systems on Users' Data-Sharing Intentions*

## Teaching

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- Winter 2025/26 MSc Information Systems “Theoretical Seminar”, University of Regensburg
- Summer 2025 BSc Information Systems “Data Analytics”, University of Regensburg

Summer 2022	BSc Information Systems “IT-based Process Automation”, FAU Erlangen-Nuremberg
2021 – 2022	MSc International Information Systems “Introduction to Computer Science”, FAU Erlangen-Nuremberg

### Awards & Scholarships

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2025	ECIS 2025 Doctoral Consortium — Selected participant
2024	Best Student Paper Award, Wirtschaftsinformatik (WI 2024)

### Selected Association & Committee Work

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2024 – present	Reviewer for ECIS, Wirtschaftsinformatik (WI), and Data Technologies and Applications
2024 – 2025	Organizer of White-box AI Research Discussions
2021 – 2022	President of student council “FSI Wirtschaftsinformatik & International Information Systems (IIS)” (FAU)
2020 – 2022	Member of MSc IIS quality circle and FAU’s internationalization committee

### Languages & Skills

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Languages	German (native); English (fluent); French (elementary)
Technical	Python (PyTorch, HuggingFace, scikit-learn), R, SQL, JavaScript/React; Git, Docker, Google Cloud Programming, Microsoft Azure, Amazon AWS; Figma

*Last updated: March 18, 2026*