

Elif Akata

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EDUCATION

University of Tübingen <i>Ph.D. Machine Learning & Cognitive Science</i> <i>International Max Planck Research School for Intelligent Systems (IMPRS-IS)</i>	since Oct 2022 Tübingen & Munich, Germany
University of Tübingen <i>M.Sc. Computer Science</i> <i>Thesis on automated attention detection in classroom videos (HCI Lab)</i>	Oct 2019 – Feb 2022 Tübingen, Germany
Saarland University <i>B.Sc. Computer Science</i> <i>Thesis on EMG-based hand gesture recognition system (HCI Lab)</i>	Oct 2015 – Sep 2019 Saarbrücken, Germany

RESEARCH EXPERIENCE

Helmholtz Munich <i>Ph.D. Researcher</i> Human-Centered AI Lab, supervised by Dr. Eric Schulz and Prof. Dr. Matthias Bethge	Mar 2024 – Present
University of Tübingen <i>Ph.D. Researcher</i> Scalable Trustworthy AI Lab, supervised by Prof. Dr. Seong Joon Oh	Oct 2022 – Feb 2024
Tübingen AI Center <i>Research Assistant</i> Computational Neuroscience and ML lab, supervised by Prof. Dr. Matthias Bethge	Oct 2021 – Sep 2022
Max Planck Institute for Software Systems <i>Student Research Assistant</i> Programming Analysis and Verification group, supervised by Dr. Eva Darulova	May 2017 – Apr 2019

TEACHING & SUMMER SCHOOLS

MIT Brains, Minds & Machines Summer Course <i>Woods Hole, USA</i>	2024
International Computer Vision Summer School (ICVSS) <i>Sicily, Italy</i>	2023
Trustworthy Machine Learning <i>TA for a 6 Credit M.Sc. lecture at University of Tübingen</i>	2023

INVITED TALKS

University College London <i>Experimental Psychology Department</i>	2024
London School of Economics <i>Generative AI in Social Science Research Workshop</i>	2024

SKILLS

Languages: English (IELTS Academic Band 7.5), German (DSH-2, CEFR Level C1), Turkish (Native)
Coding: Python, C/C++, PyTorch, Numpy, Pandas, SciKit-Learn, Git, LLM fine-tuning (SFT, GRPO) on HPC

PUBLICATIONS

1. Akata, E., Schulz, L., Coda-Forno, J., Oh, S. J., Bethge, M., and Schulz, E. (2025). Playing repeated games with large language models. <i>Nature Human Behaviour</i> . https://doi.org/10.1038/s41562-025-02172-y
2. Buschoff, L. M. S., Akata, E., Bethge, M., and Schulz, E. (2025). Visual cognition in multimodal large language models. <i>Nature Machine Intelligence</i> . https://doi.org/10.1038/s42256-024-00963-y
3. Binz, M., Akata, E., Bethge, M., et al. (2025). A foundation model to predict and capture human cognition. <i>Nature</i> . https://doi.org/10.1038/s41586-025-09215-4
4. Buschoff, L. M. S., Voudouris, K., Akata, E., Bethge, M., Tenenbaum, J. B., and Schulz, E. Testing the limits of fine-tuning to improve reasoning in vision language models. <i>ICML 2025</i>