europass Curriculum vitae

PERSONAL INFORMATION

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SUMMARY

I work on interpretability. My question is whether we can trust what we see from a model (what it says about itself, how it behaves when tested, what we can read out of it), and I test this by changing things inside the model rather than by looking at correlations.

EDUCATION AND TRAINING

Oct 2026–present

Master of Science in Machine Learning

University of Tübingen, Tübingen, Germany

Research-oriented, four-semester programme. **Master's Scholar, Zuse School ELIZA** (Research-Oriented Master's Scholarship). First semester, focused on the mathematical fundamentals of machine learning.

2023–Jun 2026

Bachelor of Science in Engineering, Software Engineering

University of Southern Denmark (SDU), Sønderborg, Denmark

GPA **10.7**/**12**, thesis **12**/**12** (Danish 7-point grading scale, highest grade 12). Thesis *Heimdall: Only the Safe Shall Pass* with Tim Lukas Adam (equal contribution), **best bachelor thesis** in a cohort of more than 100 students, chosen by the head of the programme.

2025

Exchange semester, Computer Science & Engineering

Hong Kong University of Science and Technology (HKUST), Hong Kong SAR

Courses in machine learning, computer vision, large language models, reinforcement learning and data visualisation.

RESEARCH AND WORK EXPERIENCE

Jan 2026–present

Undergraduate Student Researcher, then Research Collaborator

Applied and Interpretable Machine Learning Research Group, University of Southern Denmark, supervised by Serkan Ayvaz. Sønderborg, Denmark, remote since Oct 2026.

Came up with and led my own research on what goes on inside language models, from the first question to the finished paper, designing the experiments and writing the papers with my co-authors. Still part of the group after my BSc.

Jan–Aug 2026

Teaching Assistant, Artificial Intelligence

University of Southern Denmark, Sønderborg, Denmark

Led exercise sessions, helped design lab assignments and built interactive course material.

Dec 2025–Sep 2026

Research Collaborator

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DataVISards, Hong Kong University of Science and Technology, supervised by Arpit Narechania. Hong Kong SAR.

Helped with a study of how people fact-check data-driven news articles. It started during my exchange semester and became a paper at IEEE VIS 2026.

Sep 2024–Dec 2025

Student Research Assistant

Data & Intelligence Lab, University of Southern Denmark, Sønderborg, Denmark

Built machine-learning pipelines and helped with study design, papers, grant proposals and datasets across the lab's projects.

2022–2026

Founder or co-founder

SaturoLabs (DreamBear, an iOS bedtime-story app), Tutora ApS (CTO, tutoring platform) and Yeager GmbH (AI-assisted training app).

2017–2021

Staff Duty Soldier

Bundeswehr (German Armed Forces), Glücksburg, Germany

Led a small HR team for 600+ soldiers. Formal recognition and performance bonus, 2021.

PUBLICATIONS

My name is in bold and * marks equal contribution. Summaries, project pages and code on my website.

Conference and journal

P. M. Konrad, T. Tanyel, S. Ayvaz. *Routing Subspaces: Auditing Evaluation-to-Deployment Mismatch in Fine-Tuned Language Models*. Conference on Neural Information Processing Systems (NeurIPS), 2026, main track, poster. arXiv

P. M. Konrad, A.-A. Popa, Y. Sabzehmeidani, L. Zhong, M. Tripathy, A. Constantinescu, E. A. Liehn, S. Ayvaz. *Challenges in Deep Learning-Based Small Organ Segmentation: A Benchmarking Perspective for Medical Research with Limited Datasets*. Biomedical Signal Processing and Control 128, 111226, 2026. DOI

N.-T. Thinh*, Y. Du*, **P. M. Konrad**, A. Narechania. *Fact-Check Your Information (FYI): A Design Probe to Understand How People Actually Fact-Check Data-Driven Articles*. IEEE VIS 2026, IEEE Transactions on Visualization and Computer Graphics, 2027, in press. arXiv

P. M. Konrad, T. Tanyel, S. Ayvaz. *Beyond Major Floods: Deep Learning for Detecting Shallow Water Inundation in Agricultural Areas*. KES 2025, Procedia Computer Science 270, 301–310. DOI

Workshop papers (non-archival)

P. M. Konrad, T. Tanyel, S. Ayvaz. *Self-Reports Do Not Identify Self-Models: An Identifiability Test for Counterfactual Reports*. Philosophy of Machine Learning Workshop at ICML 2026, oral. OpenReview

P. M. Konrad, T. Tanyel, S. Ayvaz. *Decoded but Unused: Instruction Tuning Routes Moral Framing into the Judgment Readout*. Workshop on Mechanistic Interpretability at ICML 2026, poster. OpenReview

P. M. Konrad, T. Tanyel, S. Ayvaz. *A Path Already Walked: On Inheriting Network-Neuroscience Tools for Mechanistic Interpretability*. Workshop on Mechanistic Interpretability at ICML 2026, virtual poster. OpenReview

Workshop papers (archival)

P. M. Konrad, T. L. Adam, R. Terrenzi, S. Ayvaz. *Architecture Without Architects: How AI Coding Agents Shape Software Architecture*. SAGAI Workshop at IEEE ICSA 2026. arXiv

T. L. Adam, **P. M. Konrad**, R. Terrenzi, F. G. Lukas, R. Yilmaz, K. Sierszecki, S. Ayvaz. *CAKE: Cloud Architecture Knowledge Evaluation of Large Language Models*. KDA-AI Workshop at IEEE ICSA 2026. arXiv

R. Terrenzi, **P. M. Konrad**, T. L. Adam, S. Ayvaz. *A Reference Architecture for Agentic Hybrid Retrieval in Dataset Search*. SAML Workshop at IEEE ICSA 2026. arXiv

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Preprints **P. M. Konrad**, T. L. Adam, A. C. H. Merrild, R. Terrenzi, R. De Rosa, T. Tanyel, S. Ayvaz. *The Open-Box Fallacy: Why AI Deployment Needs a Calibrated Verification Regime*. Position paper, 2026. arXiv

Thesis **P. M. Konrad***, T. L. Adam*. *Heimdall: Only the Safe Shall Pass*. BSc thesis, Software Engineering, University of Southern Denmark, 2026. Project page

HONOURS AND AWARDS

2026 **Research-Oriented Master's Scholarship**, Zuse School ELIZA.

2026 **Graduate Study Grant**, William Demant Foundation, for the MSc in Tübingen.

2026 **Best bachelor thesis** of 100+ students, chosen by the head of the programme, SDU (with T. L. Adam).

2026 **Best Startup Award finalist** (one of five), DreamBear, SDU Startup Night.

2025 **Travel grant**, Danish Data Science Academy (DDSA), to present my first paper at KES 2025.

2024, 2025 **Top 10**, Danish National Championship in AI, twice (team, then individual).

2023 **Winner**, SDU Case Competition, 30+ international teams of six from Germany and Scandinavia.

TALKS AND SERVICE

Feb 2026 **Agentic Engineering in Practice**, invited talk, first House of Software Sønderborg event, 100+ attendees.

2025–2026 **Student Member**, Educational Committee, Software Engineering programme, SDU.

PERSONAL SKILLS

Mother tongue German

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Danish	A1	A1	A1	A1	A1
Thai	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
Common European Framework of Reference for Languages

Research methods Controlled experimental design, activation and path patching, linear probing, ablations, steering, fine-tuning, bootstrap uncertainty, evaluation under distribution shift, conformal prediction.

ML tools Python, PyTorch, Hugging Face Transformers, TransformerLens, scikit-learn, pandas, NumPy, Optuna, W&B.

Engineering Git, Docker, Linux, SQL, Google Cloud Platform, JavaScript.

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