Denis Wambold

Personal Website | GitHub

EDUCATION

08/2025 - 11/2025	 Carnegie Mellon University, Pittsburgh Visiting Student Researcher Visiting CyLab@CMU to write my Master's Thesis Domain: Explainability of ML-based Attack Detection for Industry Control Systems
10/2023 -	Karlsruhe Institute of Technology MSc Computer Science
2025	· Focus on Cybersecurity and AI
	· Minor: Business Economics (Data Science)
	· Current grade: 1.3 (German grading system)
10/2019 - 09/2023	Karlsruhe Institute of Technology BSc Computer Science
	· Bachelor's Thesis: "Subspace Generative Adversarial Learning for Unsupervised Outlier
	Detection" with grade 1.0
	· Minor: Business Administration
	• Final grade: 1.9

SCIENTIFIC WORK

2024 Generative Subspace Adversarial Active Learning for Outlier Detection in Multiple Views of High-dimensional Data (Preprint)

2024

2024	Prompt Injection Attacks against LLMs (Seminar)	
WORK EXPERIENCE		
10/2023 - 05/2025	IONOS – Software Engineer for Technical Security Working Student	
	· Development of security tools for internal use, e.g. monitoring of self-maintained work	
	stations, automated security incident alerting, micro service development	
11/2023 - 01/2024	IPD Böhm - Assisting Student Researcher	
	· Co-authored a scientific paper building upon the results of my Bachelor's Thesis	
	· Designed and implemented experiments to benchmark the model introduced in my thesis	
07/2021 - 06/2023	EnBW - Data Analysis Working Student	
	· Data Analysis and User Management, development of an interactive real-time dashboard to	
	support daily operations planning	
PROIFCTS & LINIVERSITY COLLEGES		

FROJECTS & UNIVERSITY COURSES		
2025	Shelly - Natural language to CLI commands	
	· LLM wrapper that translates natural language instructions into terminal commands	
	· Features: command safety checks, explanations and optional execution	
05/2023 - 09/2023	Bachelor's Thesis	
	• Extension of the GAN-framework to combine the generative power of GANs with an architectural Ensemble structure, enabling the learning of feature subspaces	
0000	• Design & conduct experiments to evaluate the model's performance	
2023-	Relevant University Courses	
2025	Application Cognity Departmentian Testing IT Cognity Coffware Cognity Engineering De	

Application Security, Penetration Testing, IT-Security, Software Security Engineering, Data Science, several Machine Learning courses (including Deep Learning, Neural Nets, ML for Natural Sciences, Security of ML), Formal Systems, Advanced Software Engineering