

JONATHAN NÖTHER | Curriculum Vitae

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•  GitHub •  LinkedIn

INTERESTS

Secure Machine Learning, Attacks against ML Models, Reinforcement Learning, Agentic Systems

EDUCATION

MAX PLANCK INSTITUTE FOR SOFTWARE SYSTEMS

PhD in Computer Science

10/2024 - Ongoing

Saarbrücken, Germany

SAARLAND UNIVERSITY

M.Sc. in Data Science and Artificial Intelligence

ECTS: 1.3

12/2022 - 08/2024

Saarbrücken, Germany

SAARLAND UNIVERSITY

B.Sc. in Data Science and Artificial Intelligence

ECTS: 1.7

10/2019 - 11/2022

Saarbrücken, Germany

EXPERIENCE

RESEARCH ASSISTANT

Machine Teaching Group

Conducted research projects and presented my work and related papers

08/2022-07/2024

MPI-SWS

TEACHING EXPERIENCE

TEACHING ASSISTANT FOR THE COURSE "GENERATIVE AI"

Machine Teaching Group

Prepare exercise sheets, answered student's questions and graded exercises and the exam

Winter 2024/2025

MPI-SWS

TEACHING ASSISTANT FOR THE SEMINAR "TRUSTWORTHINESS OF FOUNDATION MODELS"

Multi-Agent Systems Group

Prepare the seminar project on red-teaming and watermarking of foundation models

Summer 2024

MPI-SWS

TEACHING ASSISTANT FOR THE LECTURE "STATISTICS LAB"

Modeling and Simulation Group

Explained course topics to students and graded tests and exams

Summer 2022

Saarland University

TEACHING ASSISTANT FOR THE LECTURE "ARTIFICIAL INTELLIGENCE"

Foundations of Artificial Intelligence Group

Prepared Exercises, explained Course topics to students, and graded tests and exams

Summer 2022

Saarland University

TEACHING ASSISTANT FOR "PROGRAMMING 1"

Reactive Systems Group

Prepared Exercises, explained course topics to students, and graded tests and exams

Winter 2020/2021

Saarland University

SKILLS

PROGRAMMING LANGUAGES CONCEPTS	Experienced: Python	Familiar: C++
	Experienced: Machine Learning Reinforcement Learning Adversarial ML Agentic Systems Large Language Models	
LIBRARIES LANGUAGES	Familiar: Cybersecurity Computer Vision Diffusion Models matplotlib Pytorch numpy AutoGen TRL transformers	
	Native: German Fluent: English (C1)	

PUBLICATIONS

MAMA: A GAME-THEORETIC APPROACH FOR DESIGNING SAFE AGENTIC SYSTEMS

PDF

Preprint, under Review

Safety of Agentic Systems

TL;DR: Automatic Design of Safe Agentic Systems using a two-player game between a system designer and an attacker

AGENTICRED: OPTIMIZING AGENTIC SYSTEMS FOR AUTOMATED RED-TEAMING

PDF

Preprint, under Review

Jailbreaking of LLM's

TL;DR: Automatically design red-teaming workflows without human intervention

BENCHMARKING THE ROBUSTNESS OF AGENTIC SYSTEMS TO ADVERSARILY-INDUCED HARMFUL ACTIONS

PDF

Preprint, under Review

Safety of Agentic Systems

TL;DR: Benchmark for testing the robustness of LLM-based agents against adversaries that aim to manipulate them into performing dangerous actions

TEXT-DIFFUSION RED-TEAMING OF LARGE LANGUAGE MODELS: UNVEILING HARMFUL BEHAVIORS WITH PROXIMITY CONSTRAINTS

PDF

AAAI 2025 (Oral)

Safety of LLMs

TL;DR: Applying text-diffusion models to red-teaming to satisfy proximity constraints with regards to a reference prompt

POLICY TEACHING VIA DATA POISONING IN LEARNING FROM HUMAN PREFERENCES

PDF

AISTATS 2025

Safety of LLMs

TL;DR: Forcing an LLM to adapt a target policy by synthesizing preference data

DEFENDING AGAINST UNKNOWN CORRUPTED AGENTS: REINFORCEMENT LEARNING OF ADVERSARILY ROBUST NASH EQUILIBRIA

PDF

TMLR 08/2024

Robust Reinforcement Learning

TL;DR: Training robust agents in an MARL setting where an attacker can arbitrarily corrupt a subset of peer agents of a given cardinality

IMPLICIT POISONING ATTACKS IN TWO-AGENT REINFORCEMENT LEARNING: ADVERSARIAL POLICIES FOR TRAINING-TIME ATTACKS

PDF

AAMAS 2023

Adversarial Reinforcement Learning

TL;DR: Attacking an agent by poisoning the policy of a peer agent during training

AWARDS

GÜNTER-HOTZ MEDAILLE

Award for the top computer science graduates of Saarland University

TOP-REVIEWER

Neurips 2025

REVIEWING

AAAI 2024 | AAAI 2025 | NeurIPS 2025 | ICLR 2026