

Dariush Wahdany

RESEARCH ASSOCIATE · PHD CANDIDATE · FOUNDER

✉ hi@wahdany.eu 🏠 https://wahdany.eu 🔄 dwahdany 🌐 Dariush Wahdany 📍 Dariush Wahdany

Skills

Expertise Privacy-Preserving ML, Python, Academic Research, Scalable Experiments

Languages English, German, Russian, French

Technologies Python (uv), ML (PyTorch, Mlflow), Scalability (Ray, Dask, Jax, Docker, S3), DevOps (CD)

Experience

Research Associate

Saarbrücken, Germany

CISPA - HELMHOLTZ CENTER FOR INFORMATION SECURITY

July 2025-Present

- Frontier research in trustworthy machine learning

Co-Founder

Germany

NUNC.IMMO

2023-Present

- Leading a startup focused on innovating apartment search and rental processes
- Developing technology solutions with user-centric design principles

Research Associate

Berlin, Germany

FRAUNHOFER AISEC

May 2022-June 2025

- Conducting research in privacy-preserving machine learning
- Developing practical solutions for secure AI applications
- Leading research initiatives in making AI systems more private and trustworthy

HIDA Visiting Researcher

Saarbrücken, Germany

CISPA - HELMHOLTZ CENTER FOR INFORMATION SECURITY

2023

- Led research project on private machine learning for imbalanced transfer learning

Others

Various

- **Consultant @ Umlaut consulting** working on substation automation
- **Simulations Engineer @ Maon GmbH** for European energy market simulations
- **Working Student @ Siemens Healthineers** in product lifecycle management for medical electronics
- **Research Assistant @ IAEW RWTH Aachen** working on renewable energy integration
- **Supervisor @ Institute for Man-Machine Interaction** of student software projects

Education

Ph.D. Student in Privacy-Preserving Machine Learning

Berlin, Germany

FREIE UNIVERSITÄT BERLIN

May 2022-Present

- Pursuing doctoral research in privacy-preserving machine learning

M.Sc. Electrical Engineering, Computer Engineering and Information Technology

Aachen, Germany

RWTH AACHEN

2019-2022

- Specialized in electrical power systems and computer engineering

Master Thesis / IDEA League Visiting Researcher

Netherlands/Germany

TU DELFT & RWTH AACHEN

2021-2022

- Developed ML models for renewable energy forecasting systems
- End-to-End loss with differentiable optimization problems

B.Sc. Electrical Engineering, Computer Engineering and Information Technology

Aachen, Germany

RWTH AACHEN

2016-2019

- Specialized in electrical power system automation

Projects

Differentially Private Prototypes for Imbalanced Transfer Learning

COLLABORATIVE RESEARCH PROJECT WITH GOOGLE DEEPMIND AND HELMHOLTZ CISPA

2025

- Improved private transfer learning for imbalanced classification tasks
- Increased accuracy for underrepresented classes by 20x
- Presented as a main track paper at AAAI-25

Speaking

Privacy-Preserving AI in Public Administration

Berlin, Germany

OMNISECURE 2025

2025

- Talk on the chances and risks of AI in public administration applications.

Public Data Reuse Improves Private Imbalanced Transfer Learning

Munich, Germany

GOOGLE RESEARCH

2024

- Presented results from AAAI-25 paper 'Differentially Private Prototypes for Imbalanced Transfer Learning'

AI Privacy in Practice

Berlin, Germany

COSMO CONSULT

2024

- Presented practical applications of privacy-preserving AI techniques in business scenarios

Private Synthetical Data for Medical Research

Berlin, Germany

HEALTH & LAW NETWORK BERLIN

2023

- Presented on the use of synthetic data generation techniques to protect patient privacy.