

# Eduard Hübner

eduard-huebner@gmx.de | Berlin, Germany

## WORK EXPERIENCE

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### Technical University Berlin | *Teaching Assistant, Theoretical Computer Science Since June 2023*

- Currently teaching "Introduction to Machine Learning"
- Previously taught "Formal Languages and Automata", "Computability and Complexity", and "Discrete Mathematics"
- Explaining complex theoretical and applied ML concepts to students, evaluating exams and assignments

### Merantix, Berlin | *Working student, Editor for AI and Business Since 2022*

- Writing articles and whitepapers on applied AI research for non-technical audiences
- Researching ML use cases across industries (Finance, Health, Manufacturing, Legal)
- Communicating AI concepts in accessible business language

### German Parliament, Berlin | *Intern, Technology Politics January – February 2020*

- Study Commission on Artificial Intelligence participant
- Wrote briefings on emerging technologies

## EDUCATION

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### Technical University Berlin | *MSc Computer Science 2025 – ongoing*

- Current Coursework: Deep Learning, Adversarial Machine Learning, Responsible AI (Explainable AI), Bayesian Inference

### Technical University Berlin | *BSc Computer Science 2022 – 2026 (expected)*

- **Bachelor Thesis:** Detecting and scoring polysemy in Large Language Models for Mechanistic Interpretability.
- Relevant Coursework: Machine Learning for Computer Security (1.7, Master level), Artificial Intelligence (1.3), Data Science for Computer Scientists (2.0, Master level), Machine Intelligence I (2.3, Master level), Machine Intelligence II (2.7, Master level)
- Focus on Theoretical Computer Science and Artificial Intelligence
- Developed a microservices-based social network in team project
- Developed machine learning-based intrusion detection system using Random Forest, SVM, and PyTorch neural networks

### Humboldt University Berlin | *BSc Philosophy and Economics 2017 – 2022*

- Focus on Logic and Philosophy of Languages
- Focus on Ethics and Metaethics
- Thesis on topics in Social Epistemology

- GPA 1.6 (Germany)

**University of Edinburgh** | *Visiting Scholar in Philosophy and Computer Science*

**2019**

- Focus on Logic, Cognition and Discrete Mathematics

**Humboldt-Schule Kiel** | *A levels (Abitur)*

**2015**

- GPA 1.5 (Germany)

## **HONORS**

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**Friedrich Naumann Foundation** | *Merit-based Scholarship*

**2016 – 2021**

- Awarded for outstanding academic potential
- Full academic scholarship supporting studies at multiple institutions

**Erasmus+ Programme** | *Study Abroad Scholarship*

**2019**

- Scholarship for studies at the University of Edinburgh

## **TECHNICAL SKILLS**

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**Programming Languages** | Python, Java (basics), C (basics)

**Data Science** | Pandas, Scikit-learn, Seaborn, Data Cleaning and Integration, EDA, Cross-validation

**Machine Learning** | Supervised Learning (SVM, Logistic Regression, Random Forests), Unsupervised Learning (K-means, PCA, ICA), Neural Networks, Anomaly Detection, Adversarial ML, PyTorch, Deep Learning

**Interpretability & Safety** | Mechanistic Interpretability, Explainable AI (XAI)

**Theoretical Foundations** | Algorithm Design, Complexity Theory, Formal Methods, Logic

**Tools & Technologies** | PyTorch, Docker, Jupyter Notebooks, Git, Shell Scripting