

EDUCATION

Technical University of Munich (Grade: 1.4/1) <i>MSc in Informatics</i>	Munich, Germany 2022 – Present
Koç University <i>BSc in Computer Engineering & Mathematics</i> <i>Cryptography, Security, and Theory specialization</i>	Istanbul, Turkey 2017 – 2022
Üsküdar American Academy <i>High School</i>	Istanbul, Turkey 2012 – 2017

RESEARCH EXPERIENCE

TUM DI-LAB <i>Technical University of Munich</i> <ul style="list-style-type: none">• Supervisors: Hannes Stärk, MSc. (MIT), Céline Marquet, MSc. (TUM)• Flow matching for molecules, protein-ligand binding affinities (work-in-progress).	October 2023 – Present Munich, Germany
Student Research Assistant (HiWi) <i>Technical University of Munich</i> <ul style="list-style-type: none">• Supervisor: Mahdi Dhaini, MSc. (Prof. Florian Matthes)• Explainable AI/NLP. Help with literature reviews, implementation and writing.	June 2023 – Present Munich, Germany
Guided Research <i>Technical University of Munich</i> <ul style="list-style-type: none">• Supervisor: Simon Geisler, MSc. (Prof. Stephan Günnemann)• Adversarial robustness of graph neural networks.• Implemented and evaluated an attack combining the evasion & poisoning threat models.	April 2023 – October 2023 Munich, Germany
Student Research Assistant (HiWi) <i>Helmholtz Munich, Institute of Computational Biology</i> <ul style="list-style-type: none">• Supervisor: Dr. Ignacio Ibarra. (Prof. Fabian Theis)• Inference of protein binding specificities.	November 2022 – March 2023 Munich, Germany
Research Intern <i>Koç University Cryptography, Security, and Privacy Research Group</i> <ul style="list-style-type: none">• Supervisors: Assoc. Prof. Alptekin Küpçü, Asst. Prof. Ercüment Çiçek• Privacy-preserving collaborative machine learning.• Design/implement attacks and defenses. Supervised summer interns in the group.	July 2020 – October 2022 Istanbul, Turkey

PEER-REVIEWED RESEARCH

1. **Ege Erdoğan**, Simon Geisler, Stephan Günnemann. “Poisoning \times Evasion: Symbiotic Adversarial Robustness for Graph Neural Networks”, 2023; [arxiv/2312.05502](https://arxiv.org/abs/2312.05502). *New Frontiers in Graph Learning Workshop (NeurIPS GLFrontiers 2023)*.
2. Mahdi Dhaini, Wessel Poelman, **Ege Erdoğan**. “Detecting ChatGPT: A Survey of the State of Detecting ChatGPT-Generated Text”, 2023; aclanthology.org/2023.ranlp-stud.1. *Student Research Workshop (at RANLP '23)*.
3. **Ege Erdoğan**, Alptekin Küpçü, A. Ercüment Çiçek. “SplitGuard: Detecting and Mitigating Training-Hijacking Attacks in Split Learning”, 2022; doi.org/10.1145/3559613.3563198. *The 21st Workshop on Privacy in the Electronic Society (at ACM CCS '22)*.
4. **Ege Erdoğan**, Alptekin Küpçü, A. Ercüment Çiçek. “UnSplit: Data-Oblivious Model Inversion, Model Stealing, and Label Inference Attacks Against Split Learning”, 2022; doi.org/10.1145/3559613.3563201. *The 21st Workshop on Privacy in the Electronic Society (at ACM CCS '22)*.
5. **Ege Erdoğan**, Can Arda Aydın, Öznur Özkasap, Waris Gill. “Demo – Zelig: Customizable Blockchain Simulator”, 2021; [arXiv:2107.07972](https://arxiv.org/abs/2107.07972). *The 40th International Symposium on Reliable Distributed Systems (SRDS '21)*.

PREPRINTS

1. **Ege Erdoğan**, Unat Tekşen, Mehmet Salih Çeliktenyıldız, Alptekin Küpçü, A. Ercüment Çiçek. “SplitOut: Out-of-the-Box Training-Hijacking Detection in Split Learning via Outlier Detection”, 2023; arxiv.org/abs/2302.08618. *Under review*.

TEACHING

Undergraduate Tutor (x2)

Feb. 2021 – June 2021 *and* Sep. 2021 – Jan. 2022

Koç University

Istanbul, Turkey

- Weekly tutoring sessions and help with course administration for the *Computer Networks* course.

Undergraduate Teaching Assistant

Sep. 2020 – Jan. 2021

Koç University

Istanbul, Turkey

- Weekly problem sessions and office hours for the *Introduction to Programming with Python*.

NON-RESEARCH WORK EXPERIENCE

Software Development Intern

July 2020 – Aug. 2020

Proteams

Istanbul, Turkey

- Implemented features for different parts of a mobile application, including its back-end server, database, and admin panel.

Summer Intern

July 2019

IBM

Istanbul, Turkey

- Worked within the IBM Cloud & Cognitive team. Built a chatbot to answer questions by IBM new hires. Developed a web interface for a neural network music generation system.

Software Development Intern

Feb. 2018 – April 2018

Bitlo Cryptocurrency Exchange

Istanbul, Turkey

- Started learning and gained experience using the Spring framework to build web applications. Gained practice with the Java language.

EXTRACURRICULAR PROGRAMS

- Admitted to the ML Safety (Spring 2023) course, organized by The Center for AI Safety.
- *Presenter.* Workshop on Privacy in the Electronic Society, organized as part of the ACM Conference on Computer and Communications Security, November 2022.
- *Presenter.* The 40th International Symposium on Reliable Distributed Systems, September 2021.

SKILLS & INTERESTS

Languages: Turkish (native), English (fluent), German (beginner)

Computer Languages

Primary: Python (PyTorch for ML)

Others: Java/JavaScript (web development), Go (distributed systems)

Academic interests: Safety & privacy in ML, generative models, geometric ML.