YUHAO MAO

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EDUCATION

ETH Zurich

Doctorate in Computer Science (ongoing)

Zurich, Switzerland

September 2023 – Now

ETH Zurich, Switzerland

Master in Computer Science (GPA: 5.91/6.0)

September 2021 – July 2023

Zhejiang University

Hangzhou, China

Bachelor in Applied Mathematics & Finance (GPA: 3.93/4.0)

September 2017 – July 2021

• Chu Kochen Honors College (top 5% admitted annually)

Massachusetts Institute of TechnologyBoston, USAMachine Learning Summer Program (Score: 96/100)July 2019

Puri ication

- Chenhao Sun*, **Yuhao Mao***, Mark Niklas Müller, Martin Vechev, *Average Certified Radius is a Poor Metric for Randomized Smoothing*, The Forty-Second International Conference on Machine Learning (ICML'25).
- Yuhao Mao, Stefan Balauca, Martin Vechev, CTBENCH: A Library and Benchmark for Certified Training, The Forty-Second International Conference on Machine Learning (ICML'25).
- Stefan Balauca, Mark Niklas Müller, **Yuhao Mao**, Maximilian Baader, Marc Fischer, Martin Vechev, *Gaussian Loss Smoothing Enables Certified Training with Tight Convex Relaxations*, Transactions on Machine Learning Research 07/2025 (TMLR'25).
- Chenhao Chu, **Yuhao Mao**, Hua Wang, *Transfer Learning Assisted Fast Design Migration Over Technology Nodes: A Study on Transformer Matching Network*, IEEE MTT-S International Microwave Symposium 2024 (IMS'24).
- Yuhao Mao, Mark Niklas Müller, Marc Fischer, Martin Vechev, *Understanding Certified Training with Interval Bound Propagation*, The Twelfth International Conference on Learning Representations (ICLR'24).
- Max Baader*, Mark Niklas Müller*, **Yuhao Mao**, Martin Vechev, *Expressivity of ReLU-Networks under Convex Relaxations*, The Twelfth International Conference on Learning Representations (ICLR'24).
- Yuhao Mao, Mark Niklas Müller, Marc Fischer, Martin Vechev, Connecting Certified and Adversarial Training, The Thirty-seventh Conference on Neural Information Processing Systems (NeurIPS'23).
- Yuyou Gan*, Yuhao Mao*, Xuhong Zhang, Shouling Ji, Yuwen Pu, Meng Han, Jianwei Yin, Ting Wang, "Is your explanation stable?": A Robustness Evaluation Framework for Feature Attribution, ACM SIGSAC Conference on Computer and Communications Security 2022 (CCS'22).
- Yuhao Mao, Chong Fu, Saizhuo Wang, Shouling Ji, Xuhong Zhang, Zhenguang Liu, Jun Zhou, Alex X. Liu, Raheem Beyah, Ting Wang, *Transfer Attack Revisited: A Large-Scale Empirical Study in Real Computer Vision Settings*, IEEE Symposium on Security & Privacy 2022 (SP'22).

JOB EXPERIENCE

Higgs AssetHangzhou, ChinaInternship in Quant ResearchMarch 2021-July 2021

ADDITIONAL RESEARCH EXPERIENCE

The Helmholtz Center for Information SecuritySaarland, GermanyResearch Assistant to Dr. Yang ZhangJuly 2020 – June 2021

Topic: Injection and Detection of Neural Backdoors

ADDITIONAL INFORMATION

Additional Professional and Extracurricular Experiences

- Oral presentation as one of four specially invited students at the 4th Annual Honors International Faculty Institute Workshop at Texas Christian University, USA, in June 2019.
- ~200 hours volunteer as an undergraduate.
- Teach math at elementary schools (Olympics) and high schools (Calculus).

Interests

- Individual Quant research and investments.
- Member of the CKC College volleyball team from 2017 to 2020.
- Travel, think, and have fun.

- Computer and Language Skills
 Expert: Python, LaTeX, C, R, Markdown, MATLAB
 Experienced: bash, HTML, SQL, Alloy
 Mandarin (native), English (Proficient), Ningbo Dialect of Wu Chinese (native)