

Weixin CHEN

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EDUCATION

University of Illinois at Urbana-Champaign - *The Grainger College of Engineering*

Aug. 2023 - Present

- Ph.D. in Computer Science
- Advisor: Prof. Han Zhao
- GPA: 4.0 / 4.0 Rank: 1 / 110
- Research interests: Trustworthy Machine Learning (Interpretability, Robustness, Generalization), Trustworthy LLMs (Truthfulness, Reasoning)

Tsinghua University - *Tsinghua Shenzhen International Graduate School*

Aug. 2020 - Jun. 2023

- M.E. in Electronic and Information Engineering (Artificial Intelligence)
- Advisor: Prof. Haoqian Wang
- GPA: 4.0 / 4.0 Rank: 1 / 1067
- Main courses: Convex Optimization, Stochastic Processes, Artificial Neural Network

Sun Yat-sen University - *School of Mathematics (Zhuhai)*

Aug. 2016 - Jun. 2020

- B.S. in Mathematics (Information and Computing Science)
- GPA: 4.0 / 4.0 Rank: 1 / 36
- Main courses: Mathematical Analysis, Numerical Analysis, Geometry and Algebra, Numerical Algebra, Probability Theory, Mathematical Statistics, Foundation of Information Theory, Data Structure and Algorithms

PUBLICATIONS

Neural Probabilistic Circuits: Enabling Compositional and Interpretable Predictions through Logical Reasoning

2025

Weixin Chen, Simon Yu, Huajie Shao, Lui Sha, Han Zhao

Preprint

GRATH: Gradual Self-Truthifying for Large Language Models

2024

Weixin Chen, Dawn Song, Bo Li

The Forty-First International Conference on Machine Learning (ICML 2024)

DecodingTrust: A Comprehensive Assessment of Trustworthiness in GPT Models [Code]

2023

Boxin Wang, Weixin Chen*, Hengzhi Pei*, Chulin Xie*, Mintong Kang*, Chenhui Zhang*, Chejian Xu, Zidi Xiong, Ritik Dutta, Rylan Schaeffer, Sang T. Truong, Simran Arora, Mantas Mazeika, Dan Hendrycks, Zinan Lin, Yu Cheng, Sanmi Koyejo, Dawn Song, Bo Li*

Thirty-seventh Conference on Neural Information Processing Systems (NeurIPS 2023, Oral & Outstanding Paper Award)

TrojDiff: Trojan Attacks on Diffusion Models with Diverse Targets [Code]

2023

Weixin Chen, Dawn Song, Bo Li

IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2023)

Effective Backdoor Defense by Exploiting Sensitivity of Poisoned Samples [Code]

2022

Weixin Chen, Baoyuan Wu, Haoqian Wang

Thirty-sixth Conference on Neural Information Processing Systems (NeurIPS 2022, Spotlight)

PROFESSIONAL EXPERIENCES

Research Intern - *Secure Learning Lab, University of Illinois at Urbana-Champaign*

Jul. 2023 - Jan. 2024

Advisor: Prof. Bo Li

- Proposed a novel post-processing method, GRAdual self-truTHifying (GRATH), to **enhance the truthfulness of LLMs**.

Research Intern - *Secure Learning Lab, University of Illinois at Urbana-Champaign*

Jul. 2022 - Jun. 2023

Advisor: Prof. Bo Li

- Proposed **the first Trojan attack on diffusion models**, TrojDiff, with diverse targets and triggers.

Research Intern - *SCLBD, The Chinese University of Hong Kong, Shenzhen*

Jun. 2021 - May. 2022

Advisor: Prof. Baoyuan Wu

- Proposed **two effective backdoor defenses**, D-ST and D-BR, by exploiting sensitivity of poisoned samples to transformations.

ACADEMIC SERVICES

Journal Reviewer: TPAMI (IEEE Transactions on Pattern Analysis and Machine Intelligence), TIFS (IEEE Transactions on Information Forensics & Security)

Conference Reviewer: AISTATS, ICLR, ICML, NeurIPS

SELECTED HONORS

Outstanding Paper Award , NeurIPS	2023
Wing Kai Cheng Fellowship , UIUC	2023
First Prize Scholarship (top 3%) , Tsinghua University	2021
First Prize Scholarship (top 5%) , Sun Yat-sen University	2017, 2018, 2019
National Scholarship (top 2%) / Giordano Donation Scholarship (top 3%) , Sun Yat-sen University	2018, 2019 / 2017
First Prize (top 1%) , Chinese Mathematics Competitions (CMC)	2018

SKILLS

Programming: Python, PyTorch, LaTeX

Languages: English (fluent), Mandarin (native), Cantonese (native)