Chengyue Huang

Email: chuang475@gatech.edu | Mobile: (+1) 475-224-9239 | Homepage: chengyuehuang511.github.io

Education

Georgia Institute of Technology — Atlanta, USA
Ph.D. in Machine Learning, advised by Prof. ***Zsolt Kira*** — *08/2023 - Present*

- **GPA:** 4.00/4.00
- **Coursework:** Mathematical Foundation of Machine Learning (ECE7750), Statistical Machine Learning (ECE6254), High Dimensional Probability (ISYE7251), High Dimensional Statistics (ISYE7252), Linear Optimization (ISYE6661), Nonlinear Optimization (ISYE6663), Vision Language Foundation Models (CS8803)

Renmin University of China — Beijing, China
Bachelor of Science, School of Statistics, Major in Applied Statistics — *09/2019 - 06/2023*

- **GPA:** 3.82/4.00 **WES GPA:** 3.94/4.00 **Rank:** Top 8% in 121
- **Coursework:** 1) Math and Statistics: Mathematical Analysis, Advanced Algebra, Probability, Mathematical Statistics, Regression Analysis, Time Series Analysis, Stochastic Process, Convex Optimization; 2) Computer Science: C&C++ Programming, Data Structure and Algorithm, Machine Learning, Data Science Practice, Database System
- **Honors and Awards:** Second Prize Scholarship (2019 - 2022), Merit Student (2020 - 2022), First Prize in Chinese Mathematics Competitions (2020), First Prize (Beijing Region) in China Undergraduate Mathematical Contest in Modeling (2021), Honorable Mention in Mathematical Contest In Modeling (2022)

Publications

** indicates equal contribution*

- J. Tian, **C. Huang**, and Z. Kira. Rethinking weight decay for robust fine-tuning of foundation models. In *Conference on Neural Information Processing Systems (NeurIPS)*, 2024.[Paper]
- N. T. Huang, S. Villar, C. Priebe, D. Zheng, **C. Huang**, L. Yang, and V. Braverman. From local to global: Spectral-inspired graph neural networks. In *NeurIPS 2022 Workshop: New Frontiers in Graph Learning*, 2022.[Paper]
- **C. Huang***, Y. Nie*, H. Liang, and H. Xu. Adversarial and implicit modality imputation with applications to depression early detection. In *Artificial Intelligence: Second CAAI International Conference, CICAI 2022, Beijing, China, August 27–28, 2022, Revised Selected Papers, Part II*, page 230–241, Berlin, Heidelberg, 2023. Springer-Verlag.[Paper]

Preprints

** indicates equal contribution*

- **C. Huang**, J. Tian, B. Maneechotesuwan, S. Chopra, and Z. Kira. Directional gradient projection for robust fine-tuning of foundation models. 2025. *Under Review.*

Working Experience

Robotics Perception and Learning (RIPL) Lab — Atlanta, USA
Graduate Research Assistant, Advisor: Prof. ***Zsolt Kira*** — *08/2023 - Present*

- **Project:** Robust Fine-Tuning of Vision Language Foundation Models.

Microsoft Research AI4Science — Beijing, China
Research Intern, Advisor: Dr. ***Chuan Cao*** — *02/2023 - 07/2023*

- **Project:** Virus Discovery via Large Language Models.

Teaching Experience

Random Processes (ECE6601) — Atlanta, USA
Graduate Teaching Assistant — *08/2023 - 12/2023*

Skills

- **Programming:** Python (PyTorch, Tensorflow, Scikit-learn, etc.), C/C++, SQL, LaTeX, R
- **Miscs:** Singing, Piano, Volleyball, Badminton