Aosong Feng

+1-(475)-434-6500 (US) || aosongfeng1@gmail.com ||

Santa Clara, CA, USA, 95054 || [LinkedIn] [GoogleScholar]

EDUCATION

Yale University, New Haven   Sep. 2019 – Aug. 2024
- *Ph.D. candidate in Electrical Engineering,* Advisor: Professor Leandros Tassiulas, GPA: 4.0/4.0

Zhejiang University, Hangzhou   Sep. 2015 - July 2019
- *Bachelor of Engineering in Optoelectronic Engineering*, GPA 3.93/4.0, Rank **2**/124
- Minor: Advanced Honor Class of Engineering, Chu Kochen Honors College

The University of Hong Kong, Hong Kong   Sep. 2017 - June 2018
- Exchange student in Electrical and Electronic Engineering Department

EXPERIENCE

Applied Scientist II, Amazon   Sep. 2024- present
- Project: Technical lead of the intelligent LLM router product in Bedrock (product page)
- Project: Technical lead of agent-based workflow generator

Nokia Bell Labs Network Architecture Group   Jan. 2022- May 2022
- *Research internship*; Online RL for network resource allocation

IBM Distributed AI Enablers Group   Jun. 2021- Aug. 2021
- *Summer internship*; OOD generalization with contrastive invariant learning

Undergraduate Internship
- Chinese University of Hong Kong, Jan.-June 2018; University of Illinois Urbana-Champaign, July-Sep. 2018

Research Interests

My current research focuses on *long-term human-intelligence interaction*, including but not limited to

- Graph-inspired efficient attention
- LLM for time-series modeling
- Combination of autoregression and diffusion
- RL with LLM on long or offline trajectories
- Diffusion based text generation and editing
- LLM with short/long-term memory
- Prompt routing in agentic LLM system
- Vision language action model with efficient caching

HONORS AND AWARDS

- Best Paper Runner Up of ACM Conference on Information and Knowledge Management   Oct. 2022
- Outstanding Graduates in Zhejiang Province, Zhejiang University   May 2019
- National Scholarship (top 1%), Chinese Ministry of Education   Oct. 2017
- Fung Scholarship Award, The University of Hong Kong   Oct. 2017
- First-Class Scholarship of Students (top 3%), Zhejiang University   Sep. 2017
- Honorable Mention in Mathematical Contest in Modeling, COMAP   Feb. 2017
- Outstanding High School Student in Shandong Province (Highest award for high school student, 125/696,000), Ministry of Education in Shandong Province   Dec. 2015
- The First Prize of the 31st National Physics Competition from Chinese Physical Society   Dec. 2014

TECHNICAL SKILLS

- **Programming Languages:** Python, C/C++, Rust, Matlab, Latex
- **Deep learning frameworks:** Megatron-LM, Verl, Roll, Lightning, DGL, Huggingface, Triton
- **Language:** English (Professional proficient), Chinese (Native)