WU Duo

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EDUCATION

PhD. at Tsinghua University
09/2024 - now
- Major: Electronic Information
- Advisor: Prof. Zhi Wang
- Lab: MMLab@SIGS
- Research Group: Decision LLM

M.Phil. at The Chinese University of Hong Kong, Shenzhen
09/2022 - 07/2024
- Major: Computer and Information Engineering
- Advisor: Prof. Fangxin Wang
- Lab: FNii - INML

B.S. at Jinan University
09/2018 - 07/2022
- Major: Computer Science & Technology
- Advisor: Prof. Lin Cui

RESEARCH

Research Interests:

I used to work on designing high-performance video streaming systems with cutting-edge machine learning techniques. Now, my research interests primarily center on large language models (LLMs), *with a specific focus on designing algorithms to efficiently harness the capabilities of LLMs to solve fundamental decision-making and planning problems to benefit various domains*, which I call ***Decision LLM***.

Publications:

- ❖ **Duo Wu**, Xianda Wang, Yaqi Qiao, Zhi Wang, Junchen Jiang, Shuguang Cui, Fangxin Wang. *NetLLM: Adapting Large Language Models for Networking*. **Accepted by ACM SIGCOMM 2024 (CCF-A, Acceptance Ratio: 62/366)**

- ❖ **Duo Wu**, Panlong Wu, Miao Zhang, Fangxin Wang. *MANSY: Generalizing Neural Adaptive Immersive Video Streaming With Ensemble and Representation Learning*. Accepted by IEEE Transactions on Mobile Computing 2024 **(CCF-A)**

- ❖ **Duo Wu**, Dayou Zhang, Miao Zhang, Ruoyu Zhang, Fangxin Wang, Shuguang Cui. *ILCAS: Imitation Learning-Based Configuration-Adaptive Streaming for Live Video Analytics with Cross-Camera Collaboration*. Accepted by IEEE Transactions on Mobile Computing 2023 **(CCF-A)**

- ❖ **Duo Wu**, Lin Cui. *A Comprehensive Survey on Segment Routing Traffic Engineering*. Accepted by Digital Communications and Networks (**JCR-Q1**)

HONORS & SCHOLARSHIPS

Presidential Award for Outstanding Graduate Students, CUHKSZ, 2024
Only 10 awardee out of 1500+ postgraduate students in CUHKSZ

Academic Star Nomination, JNU, 2021
Only 23 awardee in JNU

University Scholarship of Innovative and Talented Undergraduate, JNU, 2021
10000 RMB, only 30 awardee in JNU

COMPETITION AWARDS

National-level:

✧ *Gold Award* | The 2nd China Collegiate Algorithm Design & Programming Challenge Contest (Spring Competition)		06/2021
✧ *1st Prize* | The 12th Lanqiao Cup National Software and Information Technology Professional Talent Competition (National Final), Python Programming University Group		06/2021
✧ *Bronze Award* | The 2nd China Collegiate Algorithm Design & Programming Challenge Contest (Winter Competition)		03/2021
✧ *Individual 3rd Prize* | 'China University Computer Competition – Group Programming Ladder Tournament' National Final		12/2020

- ✧ *3rd Prize* | The 11th Lanqiao Cup National Software and Information Technology Professional Talent Competition (National Final), C/C++ Programming University Group A — 11/2020
- ✧ *3rd Prize* | The 2020 National College Students Software Testing Contest Final — 11/2020

Provincial-level:
- ✧ *1st Prize* | The 12th Lanqiao Cup National Software and Information Technology Professional Talent Competition (Guangdong Division), Python Programming University Group — 05/2021
- ✧ *Group 1st Prize* | 'China University Computer Competition – Group Programming Ladder Tournament' TOP-competing Group of Guangdong Province — 12/2020
- ✧ *2nd Prize* | The 2020 National College Students Software Testing Contest Semifinal (Guangdong Division) — 11/2020
- ✧ *1st Prize* | Lanqiao Cup National Software and Information Technology Professional Talent Competition (Guangdong Division), C/C++ Programming University Group A — 10/2020
- ✧ *3rd Prize* | The 2019 China University Student Programming Competition - Guangdong University Student Programming Competition — 05/2019

University-level:
- ✧ *2nd Prize* | The 2019 'Huawei Cup' ACM Program Design Point Competition of Jinan University — 06/2019
- ✧ *1st Prize* | The 7th 'Huawei Cup' ACM Programming Competition of Jinan University — 04/2019
- ✧ *3rd Prize* | The ACM Programming Competition for Training Camp Selection of Jinan University — 12/2018

INTERNSHIP EXPERIENCE

Huawei Technologies Co. LTD. at Dongguan   **07/2021-09/2021**
Software Engineer (Intern)

Future Network of Intelligence Institute at CUHKSZ   **09/2022-04/2024**
Research Assistant

SERVCICES

Journal Reviewer for:
- ❖ IEEE Transactions on Mobile Computing
- ❖ IEEE Transactions on Network and Service Management

Conference Reviewer for:
- ❖ NeurIPS 2024
- ❖ ACM Multimedia 2023

Teaching Assistant for:
- ❖ 64100033-200 Big Data System (B), 2024 Fall

TALK

- ❖ NetLLM: Adapting Large Language Models for Networking
  SIGCOMM, Sydney, Australia, Aug. 6th, 2024.

- ❖ Adapting Large Language Models for Networking
  The University of Göttingen, Göttingen, Germany, Virtual, Sept. 23rd, 2024.

- ❖ NetLLM: Adapting Large Language Models for Networking
  AI TIME Youth Talk, Virtual, Oct. 30th, 2024.