

CURRICULUM VITAE

Hao, Shugang

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EDUCATION

- **Doctor of Philosophy** 08/2022
- Telecommunication Engineering, Singapore University of Technology and Design, Singapore
- Advisor: Associate Professor Lingjie Duan
- **Bachelor of Engineering** 06/2017
- Information Engineering, South China University of Technology, Guangzhou, Guangdong, China

WORKING EXPERIENCE

- **Research Fellow** 09/2022 - 02/2026 (expected)
- Engineering Systems and Design Pillar, Singapore University of Technology and Design, Singapore
- Advisor: Associate Professor Lingjie Duan

RESEARCH INTERESTS

- LLM fine-tuning from human feedback
- Mobile crowdsourcing
- Game theory and mechanism design

PUBLICATIONS

- Journal papers
 - (J3) **Shugang Hao** and Lingjie Duan, “To Save Mobile Crowdsourcing from Cheap-talk: A Game Theoretic Learning Approach,” IEEE Transactions on Mobile Computing (**IEEE TMC**), vol. 23, no. 8, pp. 8418-8430, August 2024.
 - (J2) **Shugang Hao** and Lingjie Duan, “To Help or Disturb: Introduction of Crowdsourced WiFi to 5G Networks,” IEEE Transactions on Mobile Computing (**IEEE TMC**), vol. 22, no. 9, pp. 5583-5596, September 2023.
 - (J1) **Shugang Hao** and Lingjie Duan, “Regulating Competition in Age of Information under Network Externalities,” IEEE Journal on Selected Areas in Communications (**IEEE JSAC**), vol. 38, no. 4, pp. 697-710, April 2020.
- Conference papers
 - (C4) **Shugang Hao** and Lingjie Duan, “Online Learning from Strategic Human Feedback in LLM Fine-Tuning”, IEEE International Conference on Acoustics, Speech, and Signal Processing (**IEEE ICASSP**), Hyderabad, India, April 6-11, 2025.

- (C3) **Shugang Hao** and Lingjie Duan, “*Algorithm Design for Continual Learning in IoT Networks*”, IEEE International Conference on Acoustics, Speech, and Signal Processing (**IEEE ICASSP**), Hyderabad, India, April 6-11, 2025.
- (C2) **Shugang Hao** and Lingjie Duan, “*To Save Crowdsourcing from Cheap-Talk: Strategic Learning from Biased Users*,” in the 21th International Symposium on Modeling and Optimization in Mobile, Ad hoc, and Wireless Networks (**IEEE WiOpt**), Singapore, August 24-27, 2023.
- (C1) **Shugang Hao** and Lingjie Duan, “*Economics of Age of Information Management under Network Externalities*,” in ACM International Symposium on Mobile Ad Hoc Networking and Computing (**ACM MobiHoc**), Catania, Italy, July 2-5, 2019.

SERVICES

- **Conference Chairs**
 - Web Chair, ACM SenSys 2024, Hangzhou.
 - Local Arrangement Chair, AIOISys 2024, Hangzhou.
 - Local Arrangement Chair, IEEE/IFIP WiOpt 2023, Singapore.
- **Technical Program Committee Member**
 - AIOISys 2024, Hangzhou.
- **Technical Reviewers**
 - IEEE Journal on Selected Areas in Communications,
 - IEEE/ACM Transactions on Networking,
 - IEEE Transactions on Mobile Computing,
 - IEEE Internet of Things Journal,
 - IEEE Transactions on Wireless Communications,
 - ACM Transactions on Sensor Networks,
 - IEEE Transactions on Communications,
 - IEEE Communication Letters,
 - IEEE Wireless Communications Magazine,
 - ACM MobiHoc Symposium, IEEE SECON, IEEE ICC, IEEE GLOBECOM, IJCNN.
- **Professional Membership**
 - Institute of Electrical and Electronics Engineers (IEEE),
 - IEEE Communications Society.

TEACHING EXPERIENCES

- **Teaching Assistant**
 - ESD-40.012 Manufacturing and Service Operation, 2020 Spring & 2019 Spring,
 - Singapore University of Technology and Design.

AWARDS

- **SUTD President Graduate Fellowship**, 2017 - 2022.

- ACM MobiHoc 2019/SIGMobile student travel grant.

INVITED TALKS

- **“The Economics of Competition under Network Externalities,”**
 - at Fuzhou University (online), 12/01/2024.
 - at Sun Yat-sen University, Guangzhou, Guangdong, China, 14/09/2023.
- **“To Help or Disturb: Introduction of Crowdsourced WiFi to 5G Networks,”**
 - at South China University of Technology, Guangzhou, Guangdong, China, 12/09/2023,
 - at Northwest Normal University (online), 29/09/2022.
- **“To Save Crowdsourcing from Cheap-talk: Strategic Learning from Biased Users,”**
 - at Sun Yat-sen University (Zhuhai Campus), Zhuhai, Guangdong, China, 09/09/2023.
- **“Economics of Age of Information Management under Network Externalities,”**
 - at Guangdong University of Technology, Guangzhou, Guangdong, China, 31/08/2019,
 - at Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, Guangdong, China, 30/08/2019,
 - at South China University of Technology, Guangzhou, Guangdong, China, 27/08/2019.