

# 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 - 08/2024(expected)  
- *Engineering Systems and Design Pillar, Singapore University of Technology and Design, Singapore*  
- *Advisor: Associate Professor Lingjie Duan*

## RESEARCH INTERESTS

- Mobile crowdsourcing
- Age of Information
- Game theory and mechanism design

## PUBLICATIONS

- Journal papers
  - (J1) **Shugang Hao** and Lingjie Duan, “To Save Mobile Crowdsourcing from Cheap-talk: A Game Theoretic Learning Approach,” *IEEE Transactions on Mobile Computing (IEEE TMC)*, Jan. 2024, doi: 10.1109/TMC.2023.3348801.
  - (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.
  - (J3) **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
  - (C1) **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.

- (C2) **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 Chair**
  - **Local Arrangement Chair**, IEEE WiOpt 2023, Singapore.
- **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,
  - ACM MobiHoc Symposium, IEEE SECON, IEEE ICC, IEEE GLOBECOM.
- **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 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.