Yinxu TANG

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Education

Sep 2023 – Jun 2028 (Expected)	**Washington University in St. Louis** PhD in Computer Science **Advisor:** William Yeoh
Sep 2020 – Jun 2023	**ShanghaiTech University (Co-Founded by the Chinese Academy of Sciences)** Master's Degree, Information & Communication Engineering **GPA (Major):** 3.7/4.0; **GPA (Overall):** 3.66/4.0;
Sep 2016 – Jun 2020	**ShanghaiTech University (Co-Founded by the Chinese Academy of Sciences)** Bachelor's Degree, Computer Science & Technology **GPA (Major):** 3.5/4.0; **GPA (Overall):** 3.43/4.0

Research Interests

- Explainable Planning and Scheduling
- Artificial Intelligence
- Bandit and Reinforcement Learning

Skills

- **Programming:** Python (Pytorch, Numpy) / C++ / C / Matlab

Selected Publications

- Zhang, T., Wang, S., **Tang, Y.**, Shao, Z., & Yang, Y. **"Privacy-Preserving Edge Intelligence: A Perspective of Constrained Bandits."** IEEE Wireless Communications and Networking Conference (WCNC), 2024 (**Accepted**).

- Wang, S., Bian, S., **Tang, Y.**, & Shao, Z. **"Social-Aware Distributed Meta-Learning: A Perspective of Constrained Graphical Bandits."** IEEE International Conference on Communications (ICC), 2023.

- **Tang, Y.**, Hou, J., Huang, X., Shao, Z., & Yang, Y. **"Green Edge Intelligence Scheme for Mobile Keyboard Emoji Prediction."** IEEE Transactions on Mobile Computing (TMC), 2023.

- Bian, S., Wang, S., **Tang, Y.**, & Shao, Z. **"Social-Aware Edge Intelligence: A Constrained Graphical Bandit Approach."** IEEE Global Communications Conference (GLOBECOM), 2022.

- **Tang, Y.**, Huang, T., Huang, X., Shao, Z., & Yang, Y. **"Learning-Aided Stable Matching for Switch Controller Association in SDN Systems."** IEEE International Conference on Communications (ICC), 2022.

- Hou, J., **Tang, Y.**, Huang, X., Shao, Z., & Yang, Y. **"Green Edge Intelligence Scheme for Mobile Keyboard Emoji Prediction."** IEEE International Conference on Communications (ICC), 2021.

- Huang, X., **Tang, Y.**, Shao, Z., & Yang, Y. **"Joint Switch-Controller Association & Control Devolution for SDN Systems: An Integrated Online Perspective of Control & Learning."** IEEE Transactions on Network & Management (TNSM), 2021.

- Gao, X., Huang, X, **Tang, Y.**, Shao, Z., & Yang, Y. **"History-Aware Online Cache Placement in Fog-Assisted IoT Systems: An Integration of Learning & Control."** IEEE Internet of Things Journal (IoT-J), 2021.

- Huang, X., **Tang, Y.**, Shao, Z., & Yang, Y. **"Joint Switch-Controller Association & Control Devolution for SDN Systems: An Integration of Online Control & Online Learning."** IEEE/ACM International Symposium on Quality of Service (IWQoS), 2020.

- Gao, X., Huang, X., **Tang, Y.**, Shao, Z., & Yang, Y. **"Proactive Cache Placement with Bandit Learning in Fog-Assisted IoT Systems."** IEEE International Conference on Communications (ICC), 2020.

- Zhu, J., Huang, X., **Tang, Y.**, & Shao, Z. **"Learning-Aided Online Task Offloading for UAVs-Aided IoT Systems."** IEEE Vehicular Technology Conference (VTC), 2019.

Teaching

TA, SI140: Probability & Mathematical Statistics, ShanghaiTech, Fall 2022 & Fall 2021
- Weekly in-person tutorial (including exercise & discussion sessions) with a class size of 70-80 students
- Assignment design and grading (including weekly exercise, project proposal, exam paper, *etc.*)
- After-class question answering with both online and in-person approaches during office hours

Awards & Honors

Oct 2022	National Scholarship for Graduate Students — Ministry of Education of China
Jun 2022	Third Prize — Huawei Competition in URLLC Algorithm Design
Dec 2021	Merit Student — ShanghaiTech University
Jun 2018	Meritorious Winner — Mathematical Contest in Modelling