Rongtao Zhang

Email : rongtaoz@usc.edu

https://isanshi.github.io

EDUCATION

- **University of Southern California** — Los Angeles, CA
Master of Science in Machine Learning and Data Science — *Aug. 2023 – Present*

- **Beijing Jiaotong University** — Haidian, Beijing
Bachelor of Engineering in Internet of Things Engineering — *Sep. 2018 – June. 2023*

PUBLICATIONS

- **Beyond the Edge: An Advanced Exploration of Reinforcement Learning for Mobile Edge Computing, its Applications, and Future Research Trajectories**
Ning Yang, Shuo Chen, Rongtao Zhang, Haijun Zhang
Submitted for publication

ACADEMIC RESEARCH EXPERIENCE

- **CASIA Collective Decision Intelligence Lab, Research Intern** — Haidian, Beijing
Advised by Prof. Ning Yang and Prof. Haifeng Zhang — *Sep 2022 - July 2023*
  - **Reinforcement Learning**: Research focus on Reinforcement Learning for Mobile Edge Computing.

- **BJTU INSIS, Research Intern** — Haidian, Beijing
Advised by Prof. Sheng Han and Prof. Youfang Lin — *Oct 2021 - Mar 2022*
  - **Robot Manipulation**: Implemented an automatic refueling system for a mechanical arm via deep reinforcement learning.

- **Massachusetts Institute of Technology, Visiting Student** — Remote
Advised by Prof. Mark Vogelsberger — *Aug 2020 – Oct 2020*
  - **Image Inpainting**: Developed a demo showcasing watermark removal and image inpainting using Multi-Column Convolutional Neural Networks optimized with Genetic Algorithm.

INDUSTRY EXPERIENCE

- **Lenovo, Software Engineering Intern** — Haidian, Beijing
Lenovo Smart Voice Team — *Apr 2021 - Aug 2021*
  - **Software Development**: Developed a data management system for the corpus.
  - **Software Deployment**: Completed cross-platform deployment of Smart Voice.

VOLUNTEER AND COMMUNITY SERVICE EXPERIENCE

- **Teacher, Volunteer** — Huating, Gansu
Middle School Mathematics — *May 2020 - Aug 2020*
  - In three months, I helped a student boost her math score by approximately 50 points (out of 100), and she was recognized with the school's Rapid Progress Award.

- **Beijing Zoo, Volunteer** — Haidian, Beijing
Animal Welfare Guide — *Mar 2019 - Jun 2019*
  - Providing guidance to visitors on adhering to animal welfare practices during their zoo visit.

ACADEMIC ACTIVITIES

- **RLChina Member** — Haidian, Beijing
Beijing Jiaotong university Organizer of RLChina. — *Aug 2021 - Present*

Award

- **BJTU Tech Star Scholarship**

- **BJTU Athletic Excellence Scholarship**

- **BJTU Academic Excellent Scholarship**

- **BJTU Excellent Student Cadre Scholarship**

- **National Second Prize**
  Chinese Undergraduate Mechanical Engineering Innovation and Creativity Competition, 7/326