

Zifan Liu

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EDUCATION

Shanghai Jiao Tong University

Shanghai, China

- Bachelor of Science in Computer Science; GPA: 3.92/4.3; Rank: 8/151

Sep. 2014 – Jun. 2018 (expected)

PUBLICATION

- Yuxiao Zhang, Hongzi Zhu, **Zifan Liu**, Shan Chang and Yingying Chen, “HyperEar: Indoor Smartphone Localization with a Single Remote Audio Source,” submitted to ICDCS 2018

RESEARCH EXPERIENCE

Signature Verification on Mobile Devices

Jul. 2017 - Sep. 2017

- Summer Intern (Advisor: **Prof. He Wang**)

Purdue

- o Designed a system to extract features from dynamic finger-drawn signatures and calculate similarities based on DTW algorithm
- o Proposed an extension of DTW algorithm to align strokes

Indoor Smartphone Localization with a Single Audio Source

Mar. 2017 - Dec. 2017

- Research Assistant (Advisor: **Prof. Hongzi Zhu**)

Lab of Innovation on Networking, SJTU

- o Simulated the system and analyzed the localization granularity
- o Implemented part of the system and conducted experiments to evaluate the performance

Ranging with Smartphone Dual Cameras

Dec. 2016 - Present

- Research Assistant (Advisor: **Prof. Hongzi Zhu**)

Lab of Innovation on Networking, SJTU

- o Implemented a stereo vision system to extract 3D information from images captured by dual cameras on a smartphone
- o Extended the baseline by moving and designed an algorithm to compensate the effect of pose variation

Design of Underwater Quadrotor

Mar. 2016 - Apr. 2017

- Research Assistant (Advisor: **Prof. Zheng Zeng**)

Institute of Oceanography, SJTU

- o Developed a prototype of a waterproof quadrotor for underwater exploration
- o Designed a feedback controller to automatically control a water pump for stable sinking and floating

COURSE PROJECTS

- Design of Simple Pipe Robot

Spring 2015

- o Designed a disc-shaped robot with the ability to move freely in cylindrical pipes
- o Printed the parts with a 3D-printer

- SJTUDATE: A Website Providing Dating Service for Students

Spring 2017

- o Designed a dating site for students to publish dating needs
- o Used ReactJS on the front end and MySQL on the back end

SELECTED SCHOLARSHIP & HONORS

- China National Scholarship (top 0.2% nationwide)

2014 - 2015, 2015 - 2016

- Academic Excellence Scholarship (Class A) of Shanghai Jiao Tong University

2014 - 2015, 2015 - 2016

- Honorable Mention in 2016 Interdisciplinary Contest in Modeling

Apr. 2016

SKILLS

- **Programming Languages** C/C++, Java, Python, HTML

- **Tools** Android Studio, Matlab, AutoCAD, L^AT_EX