Zhengyu Wu

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EDUCATION

Shanghai Jiao Tong University (SJTU) Sep. 2015 to Jun. 2020 (expected)

School of Electronic Information and Electrical Engineering

- B.S. Software Engineering
- Major GPA: 3.62/4.3
- Related Courses: Linear Algebra (90/100), Probability and Statistics (94/100), Computer Vision (96/100)

RESEARCH INTEREST

Data Mining, Machine Learning

PUBLICATIONS

Xuecheng Li, **Zhengyu Wu**, Ting Han Gamification-Based VR Rowing Simulation System. HCI (2) 2019: 484-493 Paper

Xibai Li, **Zhengyu Wu**, Yan Sun, et al. A Method to Diagnose Discoid Lateral Menisci on Radiographs Using Image Processing Tools and Machine Learning. Knee Surgery, Sports Traumatology, Arthroscopy (Under review)

Zhengyu Wu, Liwei Lin, Zhengui Xue. A Novel Sybil Attack Detection Scheme Based on Edge Computing for Mobile IoT Environment. (Manuscript)

RESEARCH EXPERIENCE

Pain Detection Jul. 2019 to Sep. 2019

Supervised by Prof. Virginia de Sa (University of California, San Diego)

- Research assistant for summer internship
- Synchronized EEG signals and video frames which contributes to further publications
- Helped build deep learning model for pain detection which achieves state-of-the-art results

VR Rowing Simulation System Oct. 2018 to Jan. 2019

Advised by Prof. Ting Han (SJTU)

- Implemented a VR rowing machine using Unity
- Explored new paths in rowing training using human computer interaction and is of great relevance in the application of gamification theory in sports training
- Published a paper on HCII 2019

Diagnose A Kind of Knee Disease by Machine Learning Methods April. 2018 to Sept. 2018

Supervised by Prof. Yan Sun (SJTU)

- Employed object detection models to process radiographs
- Used Canny and Sobel operators to realize image fringe detecting and picking up
- Submitted a paper to Knee Surgery, Sports Traumatology, Arthroscopy

Detecting Sybil Attack in Mobile IoT Oct. 2016 to Oct. 2017

Supervised by Prof. Ruhui Ma (SJTU)

- Team leader in this project
- Proposed a novel detection scheme based on cloud computing against Sybil attack in IoT

HONORS & AWARDS

Wish Company Scholarship (**Top 2%**)	2018
Academic Excellence Scholarship of Shanghai Jiao Tong University (**Top 10%**)	2016&2018
Excellent Student Cadre of Shanghai Jiao Tong University (**Top 0.5%, twice**)	2016&2017
National Second Prize in Mathematical Contest in Modeling (**Top 5%**)	2017
4th Place in Odyssey of the Mind Competition Finals in Iowa, USA	2018

MISCELLANEOUS

Social work

- President of Building Management Committee in SJTU, Class Monitor

Skills

- Computer Skills: C++/C, Python, SQL, Pytorch, Springboot, Latex
- Standardized Tests: TOFEL: 96, GRE: 321 (V: 152, Q: 169, AW: 3)