SHENGAN ZHANG

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shenganzhang.github.io

EDUCATION

University of Michigan   2019.9 – Present
- B.S. Computer Science (expected in May. 2021)
- Cumulative GPA: 3.95 / 4.0

University of Michigan – Shanghai Jiao Tong University Joint Institute (UM – SJTU JI)   2017.9 – Present
- B.S. Electrical and Computer Engineering (expected in Aug. 2021)
- Cumulative GPA: 3.71 / 4.0

- Awarded "John Wu & Jane Sun Talent Scholarship of UM-SJTU JI"

PROJECT EXPERIENCES

Data Elements from Video using Impartial Algorithm Tools for Extraction   2020.5 – Present
Supervised by Dr. Carol Flannagan, @ Ann Arbor, Michigan, United States
- Develop and test the position of hand primitive detection algorithms that will be used as a basis for the second layer of cell phone usage detection algorithm
- Reduce misdetection of hand position by implementing a background-removal algorithm based on Optical Flow
- Test the generalizability of retrained Kinetics-I3D model on SHRP2 dataset and do the relabeling of the cabin view data of IVBSS dataset to test the model's performances
- Implement a User Interface for the labeling software with Qt5

Analyzer of Leg Movement Based on Wireless Transmission   2018.6 – 2019.11
Supervised by Dr. Guohua Shu, @ Shanghai, China
- Co-developed algorithms to visualize leg movement based on MPU 6050 acceleration sensors and STM 32 board
- Responsible for eliminating noise of data and designing algorithm to simulate the trajectory of leg in MATLAB

LEADERSHIP

UM - SJTU JI Student Union (JISU), Vice President of the Presidium   2018.6 – 2019.6
- Took the overall responsibility of JISU and lead all the departments to hold events such as sports competitions, town hall meeting and career orientation to improve JI and JI students' life
- Fostered the communication between the leadership and students of the institute
- Awarded "Shanghai Jiao Tong University Outstanding Student" for impressive leadership

HONORS & AWARDS

Tang Junyuan UM – SJTU JI Scholarship   2019.8
This is the scholarship of the highest level in UM – SJTU JI, awarded to 2 sophomore JI students every year.

China National Scholarship   2018.11
This is the scholarship of the highest level in China, awarded to 0.2% Chinese college students

A-level Excellent Undergraduate Scholarship   2018.11
This is to award SJTU students for excellent performances, and 4 out of 326 sophomore JI students get it this year.

EXTRACURRICULAR ACTIVITIES

Intro to Engineering Course, Teaching Assistant   2020.5 – 2020.8
- Cooperated with other teaching assistants to grade students' assignments and provide feedback to students
- Held office hours to help students perform better and learn more efficiently
- Collected students' ideas and provide them for the instructors to further improve this course

SJTU Student & Alumni Association at the University of Michigan, Core Member   2019.9 – Present
- Work with both universities as well as industry partners to provide professional development resources, culture immersion programs, and networking opportunities
- Build a community by connecting cross-culture and cross-industry talents together

SKILLS
- Programming Language: C, C++, Python (pyqt5, pytorch)
- Language: English (fluent), Chinese (native)