Shaoju Wu

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EDUCATION

Aug. 2015 – May. 2017
UNIVERSITY OF FLORIDA Gainesville, FL

- Master of Science in Biomedical Engineering
- **GPA: 3.77/4.0**

Sep. 2011 – June 2015
SHENZHEN UNIVERSITY (SZU) Shenzhen, China

- Bachelor of Engineering in Biomedical Engineering
- **GPA: 3.49/4.0 Ranking: Top10%**

RESEARCH & PROFESSIONAL EXPERIENCE

Aug. 2016 - Present (Research Member) Gainesville, FL
RESEARCH ON A DEEP LEARNING METHOD FOR ANALYZING ACTIN CYTOSKELETON

- Built FCN based deep learning models for actin cytoskeleton segmentation, filament tracking in SIM super resolution images. Researched on applications of analyzing the dynamic regulation of actin by utilizing two different kinds of microscopic images of the actin cytoskeleton.

May. 2016 – Aug. 2016 (Research Member & Main Programmer) Gainesville, FL
DEEP LEARNING BASED METHOD FOR MUSCLE CELL DETECTION, SEGMENTATION

- Proposed a deep learning based method, which combines the FCN based deep learning and structured random forest approaches, to precisely detect muscle cells and do segmentation in microscopic images. Researched on applications of machine learning algorithms in muscle cell disease classification.

Feb. 2016 – Mar. 2016 (Research Member) Gainesville, FL
A PCA BASED NEURAL SIGNAL PROCESSING WITH UNSUPERVISED LEARNING

- Built a signal processing model for neural spike sorting by combining with PCA and unsupervised learning techniques. Researched on applications of multiple neuron responses classification in EEG signal.

Sep. 2015 – Dec. 2015 (Research Member & Main Programmer) Gainesville, FL
CLASSIFYING COGNITIVE STATES FROM FMRI BRAIN IMAGES DATA

- Built a machine learning model which combines with multiple machine learning algorithms for classifying cognitive states from fMRI brain image data. Researched on application of using machine learning technique to discern cognitive states in human brain.

July. 2014 – Aug 2014 (Software Engineer) Shenzhen, China
DESIGNED IMAGE PROCESSING ALGORITHMS FOR ULTRASOUND IMAGE SYSTEM

- Interned in Shenzhen Well.D Medical Electronics Company. Apply C++ to develop ultrasound image processing algorithms for medical ultrasound products, such as the algorithm for ultrasonic blood vessel measurement.

SOCIAL ACTIVITIES

- Became a student volunteer in the 38th Annual International Conference of the IEEE engineering in Medicine and Biology Society conference, mainly helped with the staff during the poster session and oral session.
- Participated in "UF DSI institution", a platform for students to share their knowledge, research progress and discoveries, and to discuss the trending technology in data science, informatics and machine learning fields.
- Participated in community services and activities regularly, such as international English corner in Shenzhen university.

SKILLS & LANGUAGES

- **Experience**: Solid Knowledge in Machine Learning, image processing and signal processing.
- **Programming**: Proficient in C, C++, MATLAB and Python.
- **Software & Systems**: Familiar with Windows and Linux Operation Systems; Microsoft Visual Studio, Eclipse; Microsoft Office; Caffe and Matconvnet.
- **Languages**: Fluent in written and spoken English, Native in Mandarin.

HONORS & AWARDS

- **Academic Honor: Achievement Award,** University of Florida (2015-2016)
- **Outstanding Undergraduate Graduation Thesis**, SZU (2015)
- **The Excellent Student of Academic Performance (Second Prize)**, SZU (2013-2014)
- **The Excellent Student of Academic Performance (Second Prize)**, SZU (2012-2013)
- **The Excellent Student of Academic Performance (Second Prize)**, SZU (2011-2012)

SELF EVALUATION

- Solid Academic Research and Learning Ability
- Strong Problem-solving and Trouble-shooting Skills
- Excellent Communication and Presentation Skills
- Goal-oriented, Self-starter, Team-player
- Passionate, Creative, Pressure-resistant