Zhaozhuo Xu

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Education

- **Stanford University** — Stanford, CA
  Electrical Engineering, Master of Science — *Sep. 2017 – Jul. 2019*
- **University of California, Los Angeles** — Los, Angeles, CA
  Computer Science, CSST Program, GPA: 4.00/4.00 — *Jul. 2016 – Sep. 2016*
- **Wuhan University** — Wuhan, China
  Electronic Information Engineering, Bachelor of Engineering, GPA: 3.84/4.00 — *Sep. 2013 – Jul. 2017*
  - Ranking: **Top 1%**, Member of the Elite Engineer Program

Papers

- **Zhaozhuo Xu**, Xin Xu, Lei Wang, Rui Yang, and Fangling Pu, "Deformable ConvNet with Aspect Ratio Constrained NMS for Object Detection in Remote Sensing Imagery", submitted to: **Remote Sensing**.
- Fangling Pu*, **Zhaozhuo Xu***, Nengcheng Chen, Jianya Gong, "DLM-LSTM Framework for North-south Land Deformation Trend Analysis from Low Cost GPS Sensor Time Series", submitted to: **Sensors** (*equal contribution).
- Fangling Pu, **Zhaozhuo Xu**, Xin Xu, "Unified Management and Control of Heterogeneous Water Quality Measuring Devices via Edge Computing Nodes", to appear in: **IEEE Sensors 2017**.
- **Zhaozhuo Xu**, Fangling Pu, Xin Fang, Jing Fu, "Raspberry Pi Based Intelligent Wireless Sensor Node for Localized Torrential Rain Monitoring", **Journal of Sensors** (IF 1.704), vol. 2016, 2016. PDF
- **Zhaozhuo Xu**, Yuan Tian, Xinjue Hu, Fangling Pu, "Dangerous Human Event Understanding Using Human-Object Interaction Model" , Proceedings of *"IEEE International Conference on Signal Processing, Communication and Computing"*Oral Presentation, Ningbo, China, Sep 18-22, 2015. PDF

Experience

- **Wuhan University** — Wuhan, China
  Research and Teaching Assistant, School of Electronic Information — *Jan. 2014 – Sep. 2017*
  - **Research Assistant - Smart Earth Group**:
    Deformable R-FCN for remote sensing object detection.
    DLM-LSTM framework for land deformation trend prediction.
  - **Teaching Assistant - Digital Signal Processing & Signals and Systems**
- **VMware** — Beijing, China
  Research and Development Intern, VMkernel I/O — *Sep. 2016 – May. 2017*
  - **Mining Open Source Repositories**:
    LSTM for context code completion.
    Github repositories visualization using **GraphX**.
  - **Virtual IoT OS**:
    Virtualized Internet-of-Things operating systems on **vSphere**.
- **University of California, Los Angeles** — Los Angeles, CA
  Research Assistant, Scalable Analytics Institute, Advised by Professor Carlo Zaniolo — *Jul. 2016 – Sep. 2016*
  - **Diagnostic Tool for Categorical Outliers Detection on Apache Spark**:
    Improve the scalability and efficiency of state-of-art outlier detection algorithms.

Skills

- **Languages**: Scala, Python, C++, Java, Javascript, MATLAB, Verilog
- **Frameworks**: Spark, MXNET, TensorFlow, CUDA, Caffe

Patents

First Inventor

- A Meteorological Sensor Information Acquisition System Based On Raspberry Pi — ID: ZL 201620138489.3
- Environmental Information Annotation System for Surveillance Images — ID: ZL 201620405353.4

Honors

Scholarships

- Undergraduate Fellowship (tuition support for full time undergraduate enrollment) 2017
- Liu Daoyu Scholarship(7 students in undergraduate at Wuhan University) 2016
- Cross-Disciplinary Scholarship of Science and Technology, UCLA 2016
- National Scholarship(top 2% in undergraduate all over China) 2014, 2015

Awards

- First Place, Scientific Innovation Contest, Wuhan University 2016
- National Undergraduate Innovation Foundation(G201510486076), Chinese Ministry of Education 2015