Zhaozhuo Xu

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Education

- **Stanford University** — Stanford, CA
  Electrical Engineering, Master of Science — *Sep. 2017 – Jul. 2019*
  - Coursework: Machine learning (A), Introduction to Linear Dynamic System (A)
- **University of California, Los Angeles** — Los, Angeles, CA
  Computer Science, Exchange Student, 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

Skills

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

Experience

- **Stanford University** — Stanford, CA
  *Research Assistant, Stanford AI Lab, advised by Prof **Fei-fei Li*** — *Oct. 2017 – Present*
  - Distributed Proximal Policy Optimization **(DPPO)** for continuous control.
  - Unsupervised Learning for poverty prediction from remote sensing imagery.
- **VMware** — Beijing, China
  R&D Intern, VMkernel I/O — *Sep. 2016 – May. 2017*
  - LSTM for **vSphere** context code completion.
  - Bug root cause classification using TF-IDF, LDA, LSTM.
- **Wuhan University** — Wuhan, China
  Research and Teaching Assistant, School of Electronic Information — *Jan. 2014 – Sep. 2017*
  - Deformable **R-FCN** for remote sensing object detection.
- **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.

Projects

- **SURREAL:** Stanford University Repository for Reinforcement Algorithms.
- Poverty Prediction by Selected Remote Sensing CNN Features.

Selected 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**, 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

Honors

- 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
- National Undergraduate Innovation Foundation(G201510486076), Chinese Ministry of Education — 2015