

# WENLONG XIONG

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## WORK & EXPERIENCE

**Bloomberg**, Software Engineering Intern

June 2018 – Sept 2018

- + Wrote an event ingestion service using Kafka for Instant Bloomberg Chat that checks permissions and filters every message sent from Bloomberg terminals realtime, before routing them to downstream applications
- + Created python utility library around Apache Kafka that multiple services in the IB Chat team use to read from and write to Kafka topics
- + Advocated for the quicker adoption of Python 3 features in new services (dataclasses, static type checking, f-strings, etc)

**Geschwind Lab**, Undergraduate Researcher

April 2017 – Dec 2017

- + Implemented autoencoder neural network in Python using Theano and Lasagne to perform classification and denoising on gene expression data
- + Investigated novel network architecture that used adversarial networks together with autoencoders to reduce batch error in biological data

**Hulu**, Software Engineering Intern

June 2017 – Sept 2017

- + Rewrote testing script in Python that generated headless web clients to stress and soak test the Hulu Live TV service
- + Used Apache Aurora to run load testing jobs on an Apache Mesos cluster, and used NewRelic to collect log information
- + Created UI for load testing application using JQuery, Flask, and Redis

**Texas Instruments** Product Marketing Intern

June 2016 – Sept 2016

- + Wrote Energia library in C/C++ to provide software support for newly released 4G LTE Evaluation Kit (EVK4) by Telit Communications PLC
- + Created motion tracker using OpenCV for 2016 TI Intern Design Challenge

**UCLA Research Center**, Undergraduate Researcher

July 2015 – Sept 2015

- + Wrote Python program to generate 3D Maya models from CSV files and use models to perform real-time error checking against robot arm position
- + IEEE ICRA 2016 conference paper contributor

**Plethora**, Factory Automation Intern

June 2014 – Sept 2014

- + Designed, assembled, and tested Beaglebone/Arduino-controlled robots that automatically loaded parts in and out of CNC mills

## ACTIVITIES & PROJECTS

**UCLA IEEE Student Branch**

July 2015 – May 2018

External Vice President (2016-2018), Treasurer (2015)

- + Communicated with UCLA Electrical Engineering department and other engineering student clubs to host school-wide events, maintain corporate connections, secure funding, and shape the organization's future direction
- + Managed organization finances and approved over \$25k of purchases

**Startup Fair LA (Bruin Startup Fair)**

Aug 2015 – Dec 2016

Primary Organizer (2016), Sponsorship Lead (2015)

- + Organized 2 bi-annual startup-focused career fairs each with over 35 participating companies and 3 corporate recruiting information sessions

## EDUCATION

**M.S. Computer Science**, 2018 - 2019

UCLA | Spec. in Artificial Intelligence

**B.S. Computer Science**, 2014 - 2018

UCLA | GPA: 3.76

## SKILLS

### PROGRAMMING LANGUAGES

- |           |              |
|-----------|--------------|
| + Python  | + Javascript |
| + C / C++ | + Lisp       |
| + BASH    | + R          |

### TECHNOLOGIES & FRAMEWORKS

- |                |                 |
|----------------|-----------------|
| + Keras        | + Jenkins       |
| + Lasagne      | + Apache Kafka  |
| + Theano       | + Apache Aurora |
| + Tensorflow   | + Redis         |
| + Scikit-Learn | + React         |
| + Docker       | + Flask         |

## PUBLICATIONS

- + Robot Learning with a Spatial, Temporal, and Causal And-Or Graph  
DOI:10.1109/ICRA.2016.7487364

## HONORS

- + Upsilon Pi Epsilon  
Computer Science Honor Society

## COURSEWORK

### GRADUATE LEVEL

- + Applied Statistics (In Progress)
- + Information Theory (In Progress)
- + ML for Bioinformatics (In Progress)
- + Neural Networks & Deep Learning
- + Neural Signal Processing

### UNDERGRADUATE LEVEL

- + Algorithm Design & Complexity
- + Artificial Intelligence
- + Computability Theory
- + Computational Genetics
- + Computational Medical Imaging
- + Computer Networking
- + Database Systems
- + Machine Learning
- + Programming Languages
- + Intro to Discrete Mathematics
- + Intro to Probability Theory