

Xiaoran Li

•985 Channing Ave, Palo Alto •(626)922-4930 •xiaoral2@uci.edu •<https://www.linkedin.com/in/xiaorali/>

EDUCATION

University of California, Irvine

Master of Science, Electrical Engineering

Thesis: *Low-Latency MapReduce*

Selected Coursework: Digital Communication, Neural Network, Adv System Security, Information Theory, Thesis Research

Irvine, CA

June 5th, 2019

GPA:3.238/4.0

University of California, Irvine

Bachelor of Science, Electrical Engineering

Selected Coursework: Digital Communication, Image Processing, Signal Processing

Irvine, CA

June 2017

GPA:3.264/4.0

SKILLS

Programming/Scripting Language: (Proficient)Python; (Familiar)C, MATLAB, SQL, and Mathematica

Frameworks and tools: Distributed File system, Hadoop, Apache Spark, Git, OpenCV, CNN in DeepLearning

THESIS

University of California, Irvine

Low-Latency MapReduce

Irvine, CA

Sep.,2017 - June 2019

- Studied the fundamental problem of storing evolving information in distributed networks through coding-based distributed computing
- Used an application (in Python) to create multiple versions of a message are be written to a storage network and used distributed algorithm to find the minimum cost in terms of storage and communication size in linear exponential decay function. Used the function to find the unique solution for the most efficient network
- Built an application (in Python) to create multiple version of distributed storage network and based on the communication bandwidth and distributed algorithm to find appeared time for the keywords in the network in terms of storage and communication size and plot in linked graph then list the top popular result from each network

PROFESSIONAL EXPERIENCE

Western Digital

Software Engineering Intern

Irvine, CA

June – Sep, 2018

- Interned with the eSSD group for developing new generation of SSD
- Reduced the running time for SSD engine program by 30 seconds out of 3 minutes

University of California, Irvine

Undergraduate Research Assistant

Irvine, CA

Feb. 2015 – Sep., 2017

- Designed and fabricated multiple versions of the wrinkled structure in wearable devices
- Built an application (in Python, LabVIEW, and MATLAB) to monitor and calculate human's health such heartbeat, heart pressure, even be able to track human motions.

California Institute of Technology

Volunteer Research Assistant

Pasadena, CA

Sep. 2014 – Sep., 2015

- Prepared for Gun Cannon Experiment such measured weight for gun powder, recorded scope, measured laser distance, etc.

CONFERENCE & AWARD

Elevator Talk: 3rd Annual Southern California Micro & Nanofluidics

09/2016

First science cup for Olympic innovation competition (First Prize)

Oct. 2007

FIRST VEX Challenge Excellent Team (Team Leader, 2nd in the world)

Apr. 2007