

# LAN ZHANG

lan\_zhang@college.harvard.edu • (914)-215-0725 • <https://lanzhangny.github.io/>

## Education

### HARVARD UNIVERSITY

A.B. Applied Mathematics in Computer Science, Minor in Economics. GPA 3.91/4.00.

Cambridge, MA

Expected May 2021

Relevant Coursework: Data Structures and Algorithms, Abstraction & Design in Computation, Theoretical Computer Science, Data Science, Intermediate Microeconomics and Macroeconomics, Statistical Inference, Probability, Tech Ethics.

## Experience

### CAPITAL ONE

New York, NY

Software Engineer Intern | Retail & Direct Bank Tech

June 2020 – August 2020

- Refactored custom view classes in Swift for user interface components of the Capital One Mobile iOS application
- Wrote unit tests for API requests, data managers, and view models of the Teen Checking mobile widget to increase code coverage from 12% to 85%

### UNITED STATES CENSUS BUREAU

Washington, D.C.

Software Engineer Intern | 2019 Civic Digital Fellow

June 2019 – August 2019

- Implemented segment of a machine learning pipeline that uses public data to automate the industry classification code assignment process for 5.9 million U.S. business establishments
- Conducted analysis and visualization of Economic Census response rates and data quality – identified areas for potential savings and formulated methods to apply ML technology to Census surveys in production
- Invited to present findings to U.S. Census Bureau executive staff, including Deputy Director & COO Ron Jarmin, and to an audience of 300 consisting of leaders in the civic technology space
- Contributed to projected savings of \$1.2 million

### E FUND MANAGEMENT

Guangzhou, China

Data Analyst Intern

June 2018 – August 2018

- Built 5+ web crawlers in Python to scrape data on U.S. higher education statistics
- Analyzed collected data in Python and R, authored and presented reports summarizing findings

### UNIVERSITY OF PITTSBURGH

Pittsburgh, PA

Research Intern | Laboratory for Computational Neuroscience

February 2014 - June 2017

- Conducted applied neuroscience and human-machine interaction research under Prof. Zhi-Hong Mao
- First-author of paper "Internet of Brain: Decoding Human Intention and Coupling EEG Signals with Internet Services", published by IEEE in the 2016 9<sup>th</sup> International Conference on Service Science, pp. 172-179

## Leadership & Activities

### HARVARD PROJECT FOR ASIAN AND INTERNATIONAL RELATIONS (HPAIR)

Cambridge, MA

Executive Director, 2020 HPAIR Asia Conference

September 2017 – Present

- Oversee multi-national team of 65 to curate academic content, negotiate sponsorships, and coordinate logistics for the 2020 HPAIR Asia Conference in Taipei, Taiwan
- Managed event, venue, and staffing logistics for the 2019 HPAIR Asia Conference in Nur-Sultan, Kazakhstan (5 days, 300+ delegates)

### THE HARVARD CRIMSON BUSINESS BOARD

Cambridge, MA

Strategy Associate

September 2018 – August 2019

- Managed client relations and operations of contract printing business with revenue stream of \$80k

## Skills

**Full Stack Development:** Python, Swift, OCaml, C, C++, HTML / CSS, JavaScript, Flask

**Data Analysis:** Python, R, SQLite

**Design / UX:** Adobe Illustrator and InDesign, Figma

**Language:** Fluent Mandarin Chinese