

# Leon Zhou

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## EDUCATION

### Columbia University

*Masters of Science in Computer Science*

**New York, NY**

*Expected May 2024*

### Columbia University

*Bachelor of Arts in Data Science and Mathematics* (Double Major)

**New York, NY**

*Expected May 2023*

GPA: 3.87/4.0, Dean's List

### The University of Chicago

*Bachelor of Arts in Economics* (Transferred)

**Chicago, IL**

*Sep 2019 - Jun 2020*

**Relevant Coursework:** Artificial Intelligence, Probability Theory, Machine Learning, Data Structures, Analysis of Algorithms, Stochastic Processes, Linear Regression Models, Statistical Inference, Databases, Differentiable Manifolds, Real Analysis

## SKILLS

**Programming:** Python, C++, C#, Java, Javascript, Hadoop, MapReduce, SQL, Haskell (Basic), R, Excel

## PROFESSIONAL EXPERIENCE

### Goldman Sachs

*Software Summer Analyst*

**New York, NY**

*Jun 2022-Aug 2022*

- Created a new signal based on physical proximity of employees to enhance the relationship understanding among colleagues in the Pythia knowledge graph using MapReduce
- Deployed unsupervised machine learning algorithms to cluster together and detect types of relationships

### Cedarlake Capital

*Technology Analyst Intern*

**Shanghai, CN**

*Jul 2021-Aug 2021*

- Performed due diligence on potential investment targets including interviewing CTOs and engineers within the automotive semiconductor industry

### Ahi Fintech

*Summer Intern*

**Beijing, CN**

*Jun 2017-Aug 2017*

- Interned at a fintech start-up that detected fraud for banks and peer-to-peer lending services
- Discovered inconsistencies between reported and web-scraped data which pinpointed customers with incorrect credit ratings through supervised learning models

## LEADERSHIP & PROJECTS

### Axel Laboratory

*Researcher*

**New York, NY**

*Mar 2022-June 2022*

- Ran experiments to discover the brain circuitry underlying curiosity and information gathering in mice
- Deployed Convolution Neural Networks to identify neural activation of real cells using traces
- Automated data pipeline for preprocessing and motion-correction of fluorescence microscopy data

### UChicago Brainbridge Laboratory

*Researcher*

**Chicago, IL**

*Mar 2020-Sep 2021*

- Modified avatar creation tool in JSON to test the memorability of faces
- Analyzed participant data and tested hypothesis on differences between visual and memory recollection
- Presented poster at the Vision Sciences Society conference

### Statistical Modeling Competition

*Participant*

**New York, NY**

*Dec 2021-May 2022*

- Co-authored a paper submitted to the MCM competition that combined traditional sports models with a Monte Carlo Tree search to predict the optimal cycling power output given any rider and racetrack
- Won the Columbia Mathematical Modeling Contest with a proposal optimizing NYC waste distribution

## LANGUAGES & INTERESTS

**Languages:** English (native), Chinese Mandarin (native), Latin (Honors 3)

**Interests:** Percussion, Rock Climbing, Rowing, David Bowie, Game Theory, Chess, Photography, Philosophy