

# Lawrence Jang

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## **EDUCATION**

### **Carnegie Mellon University**

*B.S Statistics and Machine Learning | Pittsburgh, PA | August 2019 – December 2023*

- QPA: 3.72/4.0
- Relevant Coursework: Intro to Machine Learning (PhD), Advanced Deep Learning (PhD), Convex Optimization (PhD), Probabilistic Graphical Models (PhD), Multimodal Machine Learning (PhD), Distributed Machine Learning (Graduate), Deep Reinforcement Learning, Real Analysis, Nonparametric Modeling, Modern Regression, Bayesian Modeling, Stochastic Processes
- Honors: Dean's List, High Honors (Spring '21, Spring '22, Fall '22, Spring '23)
- Activities: Carnegie Mellon Sports Analytics Club, Club Basketball Head Coach, Sigma Alpha Epsilon

### **Athens Academy**

*High School Diploma | Athens, GA | August 2015 – May 2019*

- GPA: 4.0/4.0 SAT: 1550
- Activities: Varsity Basketball, Varsity Baseball, Student Government, Sports Statistics Club (Founder)

## **SKILLS**

- Python, RStudio, SQL, HTML/CSS, JavaScript
- NumPy, PyTorch, TensorFlow, PySpark, Tidyverse, RShiny
- English (Fluent), Korean (Fluent), Spanish (Intermediate)

## **EXPERIENCE**

### **Advanced Data Analysis Teaching Assistant**

*CMU Statistics Department | Pittsburgh, PA | January 2023 – May 2023*

- Teaching Assistant for a senior-level undergraduate statistics course on non-parametric methods.

### **Deep Reinforcement Learning Teaching Assistant**

*CMU Machine Learning Department | Pittsburgh, PA | August 2022 – May 2023*

- Wrote homeworks, led recitations, and held office hours on Deep Reinforcement Learning for a PhD Class at CMU taken by 200+ graduate students.

### **Research and Development Intern**

*Chicago Cubs | Chicago, IL | May 2022 – August 2022*

- Modeled multivariate joint batted ball distributions with copula models to automate a synthetic data generation process.

### **Analytics Fellowship**

*NBA | New York City, NY | June 2021 – December 2021*

- Selected among thousands of applicants to participate in the NBA's development and capstone program for statistics led by executives from the NBA.

### **Data Science Intern**

*MLB | New York City, NY | June 2021 – October 2021*

- Conducted data analysis on spin-rate trends in investigation of foreign substance usage.
- Created new high-sensor camera datasets and blog writeups regarding new MLB data innovations.

### **Data Analytics Intern**

*FormFree | Athens, GA | May 2020 – June 2021*

- Identified and manually labeled raw data logs of financial transactions to improve NLP model.
- Created and visualized company financial datasets.

## **RESEARCH EXPERIENCE**

### **Predicting Division 3 Softball Outcomes**

- Predicted play-by-play outcomes on Division 3 Softball data with random forest and logistic regression and created RShiny App for Carnegie Mellon team data. Advised by Ron Yurko.

### **Quantifying the Canon: Examining Early Children's Literature Book Lists with Digital Humanities Techniques (CLHA 2022)**

- Performed topical modeling on children's literature to analyze bias within novels across different gender audiences, Advised by David Brown and Rebekah Fitzsimmons.

## **AWARDS**

- Athens Banner Herald Northeast Georgia Basketball Player of the Year
- Athens Banner Herald Academic Athlete of the Year