

# JUNWON CHOI

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## EDUCATION

### University of California, Davis

*Master of Science, Statistics (Data Science Track)*

Davis, CA

*Expected December 2025*

### University of California, Los Angeles (UCLA)

*Bachelor of Science, Data Theory*

Los Angeles, CA

*June 2024*

- **GPA:** 3.7 / 4.0
- **Relevant Coursework:** Machine Learning, Data Analysis, Generative Data Science, Statistical Models and Data Mining, Data-Driven Mathematical Modeling, Computational Statistics, Optimization, Societal Impacts of Data

## EXPERIENCE

### Sensing and Robotics for Infrastructure (SRI) Lab at UCLA

*Research Intern*

Los Angeles, CA

*March 2023 – Present*

- Led multiple projects to add key features on a robust road assessment web application funded by the City of Los Angeles
- Integrated parallel processing scripts to AWS S3, EC2 pipeline, automatically restructuring 10+ GB of geospatial data
- Evaluated road usage patterns and traffic congestion in a network of 88+ million node pairings using network analysis
- Customized computer vision models to classify parked cars from 150+ GB of onboard camera footage

### The Daily Bruin

*Data Editor*

Los Angeles, CA

*May 2023 – June 2024*

- Directed a team of 20 journalists to publish 50+ articles and independent data visualizations in the newspaper
- Launched two additional production teams and trained 15+ new reporters, expanding production capacity threefold
- Reported GA4 engagement data for all 17 internal teams and advised content strategies to increase readership

*Data Journalist*

*October 2022 – May 2023*

- Pitched and produced data-driven, interactive, and responsive web articles using React, JavaScript, and HTML/CSS
- Interviewed and liaised with external organizations and individuals for dataset requests and story details

### DataRes at UCLA

*Research Team Lead*

Los Angeles, CA

*October 2022 – March 2024*

- Headed a team of 5+ students to develop machine learning projects based on novel geometric deep learning research
- Designed custom SQL server to host and filter 50+ GB of raw data, increasing data distribution efficiency by 93%

### Republic of Korea Marine Corps

*Sergeant (Communications Squad Leader)*

Gimpo, South Korea

*October 2020 – April 2022*

- Supervised and trained a team of 20+ Marines to set up radio communication networks for battalion operations
- Interpreted and translated Korean-English for ROK and U.S. Marine Corps officers in 3 major joint training operations

## PROJECTS

### Fingerhut (Online Retailer) Strategic Consulting (*B.S. Data Theory Capstone*)

- Analyzed 1.6+ million customers' web sessions to extract key features driving account activation and purchases
- Developed custom stochastic, classification, and neural network models to visualize and predict customer behavior
- Presented findings to Fingerhut executives and recommended strategic changes to increase customer retention

### Research Paper Classification Optimization Using Networks and NLP

- Implemented k-means and SVD to simplify categorization of 2.4+ million arXiv research papers
- Evaluated and optimized KNN, random forest, and fastText to develop a high accuracy paper classification model
- Integrated ANNOY (Approximate Nearest Neighbors) model to retrieve similar papers within 800ms

## SKILLS

**Programming:** Python, R, SQL (SQLite, MySQL), JavaScript, HTML/CSS, LaTeX  
**Data Visualization:** Tableau, Chart.js, D3.js, matplotlib, seaborn, ggplot2, Plotly, QGIS  
**Machine Learning/Networks:** PyTorch (torchvision, Geometric), TensorFlow, tidymodels, NetworkX, igraph  
**Development/Analytics:** Git, AWS (S3, EC2, RDS, Lambda), Databricks, Google Analytics, Excel  
**Languages:** English and Korean (bilingual fluency)

## AWARDS

**Best Data Visualization (2023)** | Society of Professional Journalists (Region 11 Mark of Excellence Award)

**Best Interactive Graphic (2023)** | California College Media Association

**Best Reporting: Diversity, Equity & Inclusion (2023)** | Associated Collegiate Press & College Media Association