Junwon Choi

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EDUCATION

University of California, Davis **Davis, CA**
Master of Science, Statistics (Data Science Track) *December 2025*

University of California, Los Angeles (UCLA) **Los Angeles, CA**
Bachelor of Science, Data Theory *June 2024*

- **GPA:** 3.7 / 4.0
- **Relevant Coursework:** Machine Learning, Generative Data Science, Mathematical Modeling, Spatial Statistics

EXPERIENCE

Sensing and Robotics for Infrastructure (SRI) Lab at UCLA **Los Angeles, CA**
Research Intern *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 **Los Angeles, CA**
Data Team Director *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 **Los Angeles, CA**
Research Team Lead *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 **Gimpo, South Korea**
Sergeant (Communications Squad Leader) *October 2020 – April 2022*

- Supervised and trained a 20-person team to set up radio and wired communicaion networks for battalion operations
- Interpreted and translated Korean-English for ROK and U.S. officers during 3 major joint training operations

PROJECTS/RESEARCH

Synthetic Survey Data Generation and Evaluation: A Case Study on National Voter Files

- Built end-to-end pipeline to generate synthetic data using U.S. voter files with parametric, GAN, LLM based models
- Evaluated synthetic data quality using 4 general utility, 1 target-specific utility, and 5 privacy metrics

Fingerhut (Online Retailer) Strategic Consulting [*Capstone Project – Data Theory, B.S.*]

- 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
- 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, JavaScript, HTML/CSS, LaTeX
Data Visualization:	Tableau, Chart.js, D3.js, matplotlib, seaborn, ggplot2, Plotly, QGIS
Machine Learning/Networks:	PyTorch, TensorFlow, scikit-learn, tidymodels, NetworkX, igraph
Development/Analytics:	Git, AWS (S3, EC2, RDS, Lambda), Databricks, Google Analytics, Excel
Languages:	English and Korean (bilingual fluency)