

JUNWON CHOI

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EDUCATION

University of California, Davis

Davis, CA

Master of Science, Statistics (Data Science Track)

December 2025

- **Relevant Coursework:** Big Data and High Performance Statistical Computing, Statistical Methods for Research

University of California, Los Angeles (UCLA)

Los Angeles, CA

Bachelor of Science, Data Theory

June 2024

- **Relevant Coursework:** Data Analysis and Regression, Machine Learning, Data Ethics, Statistical Models in Finance
- **Activities:** DataRes (Machine Learning Team Lead)
- **Military Service:** Republic of Korea Marine Corps, 2020 – 2022 (Leave of Absence)

EXPERIENCE

Data Science Intern

January 2025 – Present

Stockholm Environment Institute

Davis, CA

- Implement spatio-temporal models for automated environmental monitoring and classification with remote sensing data
- Create interactive geospatial web dashboards, optimizing data processing and visualization for government stakeholders
- Generate data visualizations and insights for publications and policy briefs, assisting data-informed decision-making

Data Science Intern

March 2023 – September 2024

Sensing and Robotics for Infrastructure (SRI) Lab at UCLA

Los Angeles, CA

- Led projects to enhance data processing and analytics for a City of Los Angeles-funded road assessment web application
- Integrated web-scraping and processing Python scripts to AWS ETL pipeline, automating restructuring of backend data
- Applied graph algorithms and predictive models to uncover road demand trends and inform equitable road maintenance
- Refined computer vision models to detect parked vehicles and roadblocks from onboard cameras

Data Team Director & Data Journalist

October 2022 – June 2024

Daily Bruin

Los Angeles, CA

- Directed a team of 20 journalists to publish 50+ articles and data visualization inserts across multiple newsroom sections
- Produced award-winning interactive visual stories, leveraging React, JavaScript, D3.js, Leaflet to communicate insights
- Analyzed GA4 web traffic data for 17 teams, identifying trends that boosted online newspaper audience engagement
- Expanded production capacity threefold by launching two internal production teams and training 15+ new reporters

RESEARCH / PROJECTS

Performance of TDA Filtrations in High Dimensional Simplicial Neural Networks | *Research Paper*

- Designed a multi-input CNN to classify high-dimensional simplicial complexes using topological filtrations
- Examined CNN activations to assess topological structures' impact on feature learning and accuracy

Synthetic Survey Data Generation and Evaluation | *Research Paper (Accepted to ACM KDD 2025: ADS Track)*

- Constructed a data generation pipeline using parametric, GAN, and LLM-based models to benchmark statistical fidelity
- Proposed a framework to assess synthetic data quality, balancing utility and privacy

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

- Analyzed 1.6+ million customer web sessions to extract key features driving account activation and purchases
- Developed a stochastic model to predict and visualize customer behavior based on advertisement exposure
- Presented insights and recommended strategic changes to Fingerhut executives to increase customer retention

Research Paper Classification Optimization with NLP and Instance-Based Learning | *Course Project*

- Built an NLP pipeline to retrieve metadata and text from the arXiv API, preprocessing and categorizing research papers
- Benchmarked clustering models against fastText and ANNOY to optimize classification

SKILLS

Programming:	Python, R, SQL (MySQL, SQLite), JavaScript, HTML/CSS
Data & Cloud Technologies:	Git, AWS (S3, EC2, RDS, Lambda), Databricks, Google Analytics
Machine Learning:	PyTorch, TensorFlow, scikit-learn, OpenCV, NetworkX, igraph
Visualization & Reporting:	Excel, Tableau, QGIS, Google Earth Engine, Leaflet, D3.js, Chart.js
Languages:	English and Korean (bilingual fluency)