

ALEX BYUNG MOON JUN

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OBJECTIVE

Aspiring data scientist or analyst with a strong foundation in mathematical statistics and machine learning, seeking to apply analytical and computational skills in data-driven work. Interested in becoming an expert in Data Science, concentrating on advancing statistical methodologies and machine learning applications in diverse fields.

EDUCATION

- **University of California, Los Angeles** September 2025 - Current
Master of Applied Statistics and Data Science Los Angeles, CA
- **California State University, Fullerton** January 2023 - August 2025
Bachelor of Arts in Mathematics- Probability & Statistics, Minors in Computer Science and Business Fullerton, CA

PROFESSIONAL EXPERIENCE

- **Snorkel AI** October 2024 - June 2025
Data Annotator Remote
 - Performed multimodal data annotation for AI training and evaluation, accurately labeling images and text following specific guidelines to enhance machine learning model accuracy.
 - Executed quality assurance to ensure consistency and correctness, contributing to the reliability of AI model data.
- **California State University, Fullerton** August 2024 - May 2025
Teaching Assistant Fullerton, CA
 - Participated in the Titan Mathematics Apprentice Program, assisted mathematics courses using a student-centered, active learning approach, and provided personalized instruction to enhance student understanding.
 - Facilitated group work, held office hours, and provided one-on-one support to struggling students, contributing to an improved learning experience in large classroom settings.
- **University of California, Irvine** June 2024 - August 2024
Data Science Research Intern Irvine, CA
 - Collaborated with mentors in an NSF-funded research program to develop the machine learning predictive model.
 - Presented research findings through oral presentations to attendees at the SoCal Data Science Research Symposium.
- **Bingoo, inc** August 2018 - December 2022
Business Owner Fullerton, CA
 - Utilized data analysis with Microsoft Excel (Formula, Pivot Table) to interpret data for optimizing sales, inventory, and marketing for an efficient business model.
 - Managed entire end-to-end business process that led to generating up to 400k annual revenue from 2k investment.
- **WYNN Headwear, inc** February 2019 - November 2019
Business Consultant Los Angeles, CA
 - Collaborated with clients to expand the field of online markets and access new consumers for business growth.
 - Collected and analyzed recent trends in statistical market data and used them to generate additional revenue.
- **Creativea, inc** January 2017 - February 2018
Business Analyst Buena Park, CA
 - Analyzed sales data to identify trends and patterns and maintained dashboards and reports to track key performance indicators (KPIs) and business metrics using Excel(PivotTables, Vlookup) and Power BI.
 - Managed the e-commerce website's daily operations ensuring optimal performance and user experience.

RESEARCH / PROJECT EXPERIENCE

- **R-Shiny Application Development** September 2024 - Current
Interactive Statistical Tool for Power and Sample Size Analysis California State University, Fullerton
 - Develop an interactive R Shiny application to calculate statistical power and determine optimal sample size based on user-defined parameters and prior data, enhancing research design efficiency.
- **The National Institutes of Health (NIH)** August 2023 - Current
Alzheimer's Disease: A Statistical Machine Learning Approach California State University, Fullerton
 - Conduct Alzheimer's research under Dr.Behseta as part of a collaborative team, utilizing R programming language to develop and implement machine learning models using statistical knowledge for analyzing and interpreting data from the National Alzheimer's Coordinating Center (NACC).

- Develop multiple statistical machine learning models to analyze health history variables and biomarkers. Enhanced model accuracy and insights through data analysis, contributing to early diagnosis strategies and potential treatment pathways.
- **National Cancer Institute (NCI)** August 2024 - May 2025
Survival Analysis to Late-Stage Diagnosis of Lung Cancer in Asian Populations California State University, Fullerton
 - Collaborate on cancer health outcome and disparities research under Dr. Mamudu, focusing on lung cancer trends in the Asian population, using data from the National Cancer Institute (NCI) SEER database.
 - Develop and execute statistical models, including Chi-squared tests and logistic regression, to identify key variables contributing to late-stage lung cancer diagnosis in Asian populations. Furthermore, Perform survival analysis using Cox proportional hazards regression to estimate and compare survival rates
- **The National Institutes of Health (NIH)** August 2024 - May 2025
The Statistical Analysis of Relationship between Diabetes and Mental Health California State University, Fullerton
 - Analyze data from the All of Us Research Program to identify significant correlations between type I diabetes and mental health, specifically for young adults.
 - Build logistic regression models with regularization to examine the impact of mental health on chronic conditions such as hypertension, type II diabetes, and breast cancer in young adults.
- **National Science Foundation (NSF)** June 2024 - August 2024
Prediction Model for Damage of Box-Girder Seat-Type Ordinary Bridge Structures University of California, Irvine
 - Developed LASSO regression, Generalized Additive Models, and Neural Networks to accurately predict bridge column damage from seismic events.
 - Conducted exploratory data analysis to identify key variables, improving model interpretability and reducing prediction errors by 92% within an absolute error of 0.1.

SKILLS

- **Programming Languages:** R, Python, C++
- **Database Systems:** MySQL, PostgreSQL
- **Data Science & Machine Learning:** TensorFlow, Keras, Scikit-learn, XGBoost, Pandas, NumPy
- **Cloud Technologies:** Microsoft Azure
- **Mathematical & Statistical Tools:** Matlab, SPSS, Microsoft Excel
- **Data Visualization:** Tableau, Power BI
- **Certificate:** Python for Data Science and AI, SQL for Data Science, Fundamentals of Visualization with Tableau
- **Language:** English, Korean

PRESENTATIONS

- **SoCal Data Science Research Symposium** August 1, 2024
Poster Presentation University of California, Irvine
 - Presented "Prediction Model for Damage of Box-Girder Seat-Type Ordinary Bridge Structures".
- **SIAM Conference** May 4, 2024
Poster Presentation California State Polytechnic University, Pomona
 - Presented "Exploring Factors Affecting The Diagnosis of Alzheimer's Disease: A Statistical Machine Learning Approach".

EXTRACURRICULAR

- **ASA DATA FEST at UCLA 2024** April 2024
 - Conducting comprehensive data analysis, visualization, and modeling to generate actionable insights for CourseKata. Developed strategic recommendations to enhance the efficacy of statistics education using R programming language.
- **Association for Computing Machinery** January 2023 - May 2025
 - Developed logical thinking and problem-solving in algorithms and AI machine learning and collaborated with colleagues for group work. Led the group to manage certain projects or problems to have an outcome.
- **Louis Stokes Alliance for Minority Participation Program (CSU-LSAMP)** January 2023 - May 2025
 - Conducting undergraduate research as a scholar, Participating in LSAMP workshops, contributing to undergraduate research by assigned mentors, and presenting at conferences.
- **Facilitated Graduate Admissions Procedure (F-GAP) program** March 2024 - May 2025
 - Nominated for the program, designed to mentor underrepresented students in the quantitative sciences through the graduate school application process, with opportunities for workshops and conferences, including the Field of Dreams Conference.