

Experience

Research Assistant UC San Diego	2019 - 2024
<ul style="list-style-type: none">Conducted biomedical data analysis for clinical trials and observational studies using SQL, R, Excel, SPSS, & Databricks AWS.Applied advanced statistical methods, including regression (linear, logistic, LASSO, ridge, elastic net), machine learning (CART, boosting, bagging, random forests), survival analysis (Cox, competing risks), and propensity score analysis.Developed interactive visualizations with Python, Tableau, and R to present research findings.Designed and implemented web applications using PHP, CSS, HTML, Java, JavaScript, Photoshop, Jupyter, and Git.Identified the magnitude and determinants/correlates of public health problems.Researched health trends in San Diego community. Conducted micro studies on UCSD student population.Conducted inquiry-based laboratory experiments involving biochemistry molecular biology and bioinformatics.Analyzed neuroimaging (fMRI) data using statistical clustering to derive cognitive function insights.Conducted human behavioral studies with Python-based eye-tracking experiments to measure reaction times.Managed participant recruitment, ensuring compliance with research ethics and protocols.Built predictive models to assess patient risks and optimize treatment pathways.Authored and contributed to 15+ manuscripts, posters, research proposals, protocols, and literature reviews.	
Senior Residential Advisor Housing, Dining, Hospitality Services	2019 - 2024
<ul style="list-style-type: none">Mentored 300+ students, providing conflict resolution strategies to enhance community engagement and community comfortability.Organized social, wellness, career, and academic events, averaging 35+ attendees per session.Led mediation sessions using restorative justice to strengthen community relationships.Oversaw administrative tasks, safety rounds, incident reporting, and policy enforcement.	
Department Assistant UC San Diego Bookstore	2019 - 2022
<ul style="list-style-type: none">Supervised daily operations of a 40+ member retail team, optimizing workflow and customer satisfaction.Analyzed market trends and implemented cost-effective procurement strategies to reduce inventory waste.Managed inventory for the store's 2nd best-selling department, improving stock and sales efficiency.Introduced an Excel database to track product performance and optimize inventory levels.Oversaw \$7,000+ in donations to local food pantries through community initiatives.Operated on NetSuite and Visual Ratex systems and trained others.	
Sports Statistician Sweetwater Union High School System	2020 - Present
<ul style="list-style-type: none">Tracked and analyzed in-game statistics for high school basketball and lacrosse, identifying performance trends.Generated insights to help student-athletes assess strengths and areas for improvement.Compiled scouting reports using statistical analysis to inform strategic game plans.Developed reports and visualizations to communicate findings to coaches and players.	
Program Assistant San Diego VA Healthcare System	2023 - Present
<ul style="list-style-type: none">Managed occupational health records and coordinated employee-provider interactions to streamline patient care.Assisted in compliance reporting to ensure adherence to workplace safety and health regulations.Optimized data tracking and protocol efficiency by developing internal workflows.	
Syringe Services Program Family Health Centers of San Diego	2024 - Present
<ul style="list-style-type: none">Provided health education, harm reduction strategies, and essential supplies to at-risk populations.Facilitated access to healthcare resources and referrals for vulnerable communities.Investigated outreach data to optimize resource allocation and program effectiveness.	

Education

University of California San Diego, Master's	2025
Major: Clinical Research Minor: Informatics	
University of California San Diego, BS Double Major	2022
Major: B.S. CS Spec. Machine Learning & Neural Computation Major: B.S. Public Health Spec. Biostatistics	
Southwestern College , ND	
Major: Computer Information Systems Major: Biotechnology	

Skills & Techniques

Data analysis; Project development; Project management; Quality assurance; Regulatory compliance; Inventory management; Community outreach; C++ ;CSS ; HTML; Java; JavaScript; Linux ; Python; R; MATLAB ; IBM SPSS ; SQL ; PHP ; HTML; Excel ;PowerPoint; Word; PsychoPy 2 & 3 ; Inorganic Labs; Synthetic Labs ; Mechanics Labs; REDCap; Databricks; GitHub; Jupyter; NetSuite; Tableau;