

ALEXIS PARKER

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EDUCATION

UNIVERSITY OF MICHIGAN SCHOOL OF INFORMATION | *Master of Applied Data Science (MADS)* Expected August 2025

- Projects focused on: Experimental Design, Deep Learning (GANs, RNNs), Bayesian Inference, Health Data Analysis, EDA, and Public Health Research

CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO | *Bachelor of Arts in Psychology*

June 2019

- Relevant Coursework: Experimental Psychology, Biological Psychology, Drugs and Behavior, Research Methods

SKILLS

Programming & Tools: Python (NumPy, Pandas, scikit-learn, TensorFlow, PyTorch), SQL, R, Git, Jupyter, VS Code, Google Cloud Platform (GCP), Matplotlib

Certifications: Machine Learning on Google Cloud • AI for Medicine (DeepLearning.AI) • Computational Neuroscience (University of Washington) • Genomic Data Science (Johns Hopkins University)

PROFESSIONAL EXPERIENCE

University of Michigan, School of Information | *Graduate Student Researcher*

Jan 2025 to Present

- Apply statistical modeling and machine learning in Python to real-world datasets from sources such as CDC BRFSS and California Health and Human Services (CHHS)
- Build reproducible data pipelines using Pandas, Seaborn, and scikit-learn to support exploratory analysis and data-driven decision-making
- Communicate findings through visualizations such as KDE plots, time series graphs, and regression charts, tailoring technical reports for audiences including policy stakeholders, healthcare researchers, and academic collaborators

IHSS Public Authority | *IHSS Caregiver*

April 2019 to Present

- Provide long-term, personalized care to elderly and disabled individuals, increasing adherence to medication schedules, improving mobility and hygiene routines, and supporting daily independence
- Track changes in cognitive functioning and physical health across multiple clients, leading to improved communication with healthcare providers and more responsive individualized care plans
- Improve client outcomes by offering consistent emotional support and proactive interventions, helping stabilize vitals, reduce hospitalizations, and enhance overall quality of life for elderly clients

California State University, San Bernardino | *Behavioral Neuroscience Research Assistant*

April to June 2019

- Conducted a lab-based study examining cocaine-conditioned object preference in 24 adolescent rats using structured behavioral protocols, finding that cocaine-exposed rats exhibited significantly higher locomotor activity in the presence of the conditioned object compared to controls
- Used SPSS to perform a three-way ANOVA analyzing the interaction between drug treatment, object presence, and time block, revealing a statistically significant conditioned response to environmental cues associated with drug exposure
- Created bar plots and time series line graphs in GraphPad Prism to visualize group differences in locomotor activity, directly supporting the study's conclusion that environmental triggers can heighten relapse vulnerability during adolescence

PROJECT EXPERIENCE

Depression Index Analysis – CDC BRFSS Survey | *Graduate Researcher*

January 2025 to March 2025

- Created a Depression Index using 400,000+ CDC BRFSS responses to model regional variation in self-reported depression symptoms based on PHQ-9 scoring
- Visualized trends in Python, finding Western states scored 15–20% lower than the Midwest and South, supporting research on environmental influences in mental health

Heart Rate and Performance Trends – Strava Wearable Data | *Data Science Analyst*

November 2024

- Analyzed 38,000+ time-stamped heart rate records from Strava using Python to detect bimodal afternoon distributions via KDE and Gaussian Mixture Models
- Conducted time series exploration across cadence, distance, and heart rate by time of day, revealing performance trends that inform personalized training strategies