Isaac Schmidt

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EDUCATION

University of California, Berkeley

Master of Arts, Statistics, **GPA:** 4.0 *May 2022*

Bachelor of Arts, Statistics, with Minors in Data Science and City Planning, **GPA:** 3.93 *August 2021*

WORK EXPERIENCE

CNA Corporation, Center for Naval Analyses

Research Analyst, Data Science Predictive Analytics *June 2022 – Present*
- Support the mission of the United States Navy by providing rigorous data analysis across a wide suite of projects, primarily relating to platform readiness and scheduling, force utilization, and budgeting processes.
- Collect and clean data, build statistical models and visualization tools, and present results to Navy senior leadership.

Field Representative to Commander, Carrier Strike Group ONE *November 2024 – May 2025*
- Provided onsite data science support to CSG-1 during its deployment in the Western Pacific and Middle East.
- Enhanced the battlespace awareness of the strike group via timely geospatial analysis and automation of workflows.
- Participated in first-ever military "hackathon at sea" with French Carrier Strike Group during Pacific Steller exercise.

UC Berkeley Division of Data, Computing, and Society - (*Under-)Graduate Student Instructor* *June 2020 – May 2022*
- Head TA and main point of contact for senior-level decision theory course of 275 students.
- Assisted the development of a new statistics pedagogy course taught to first-time student instructors.
- As instructor of record for a course of 300 students covering data cleaning, modeling, and machine learning, developed syllabus, prepared and presented lectures, formulated policy, and managed two dozen course staff.

PROJECT EXPERIENCE

UC Berkeley Center for Community Innovation - *(Under-)Graduate Student Researcher* *Summer 2020 – Spring 2022*
- Assisted the California housing department with quality control on the data it receives from hundreds of jurisdictions.
- Worked with a team to build a measure of displacement in the Salt Lake City metropolitan area, using BART models.
- Co-authored a policy brief promoting CA Senate Bill 1120, allowing for increased density in residential areas.
- Aggregated and analyzed large datasets (ZTRAX, Infogroup) for projects on housing and gentrification.

UC Berkeley Transportation Sustainability Research Center - *Undergraduate Research Assistant* *Spring 2020*
- Performed data collection and analysis for a doctoral research project on e-commerce, transportation, and COVID-19.

Sports Analytics Group at Berkeley *Fall 2017 – Spring 2021*
- As Vice President of the Projects Division, oversaw the club's research and consulting projects, formulated relationships with professors and members of the sports industry, and recruited and interviewed club applicants.
- Directed multiple projects with sports organizations, including visualizing bat swing data for the San Francisco Giants, analyzing college prospects for the Golden State Warriors, and performing exploratory analysis for Cal Squash.

AWARDS

CNA Deployer Award - Field Representative to Commander, Carrier Strike Group ONE *2025*

FFRDC Research Excellence Award - Supply-chain analysis of Navy munitions, including SM-6 and TLAM *Spring 2024*

FFRDC Research Communication Excellence Award - Shiny application (R) for budgeting aircraft repairs *Spring 2023*

Outstanding Graduate Student Instructor Award - Data 102: Data, Inference, and Decisions *Spring 2022*

SKILLS

Programming Languages: Python, R, Java, SQL, Stata, LaTeX

Techniques: Statistical inference and prediction, including probabilistic modeling, generalized linear models, and non-parametric methods. Optimization, including mixed-integer programming. Geospatial analysis via ESRI and open-source tools.