

# Isaac Schmidt

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## EDUCATION

### University of California, Berkeley

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

*Class of 2022*

Bachelor of Arts, Statistics, with Minors in Data Science and City Planning, **GPA: 3.93**, Phi Beta Kappa

*Class of 2021*

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## WORK EXPERIENCE

**CNA - Associate Research Analyst - Data Science Predictive Analytics**

*June 2022 - Present*

**UC Berkeley Division of Data, Computing, and Society**

*June 2020 - May 2022*

*Graduate Student Instructor - Data 102: Data, Inference, and Decisions; Stat 375: Teaching of Probability and Statistics*

- 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.

*Head Instructor - Data 100: Principles & Techniques of Data Science*

- Develop syllabus, present lectures, formulate policy, and manage staff for data science course of over 350 students.
- Instructor of record for upper-division course, teaching content in data cleaning, modelling, and machine learning.

*Undergraduate Student Instructor - Data 100*

- Prepared and executed lesson plans for discussion sections and labs of 5-30 students.
  - Created and reviewed course content including exams, labs, homeworks, and discussion worksheets.
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## PROJECT EXPERIENCE

**UC Berkeley Center for Community Innovation**

*Graduate Student Researcher*

*Fall 2021 - 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.

*Undergraduate Research Assistant*

*Summer 2020 - Summer 2021*

- 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**

*Spring 2020*

- Performed data collection and analysis for a doctoral research project on e-commerce, transportation and COVID-19.

**Sports Analytics Group at Berkeley**

*Vice President - Projects Division*

*Summer 2020 - Spring 2021*

- Managed the club's projects division by recruiting members, interviewed applicants, oversaw the club's research and consulting projects, and formulated relationships with professors and members of the sports industry.

*San Francisco Giants - Scouting Reports*

*Fall - Winter 2019*

- Led a team of five students to help develop minor-league players through visualizations of bat swing data.

*Golden State Warriors - Basketball Analytics Internship*

*Winter - Spring 2018*

- With a team of five students, analyzed college basketball players in order to find suitable draft prospects.
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## PERSONAL PROJECTS

**k-Medoids Clustering** - Research paper determining the optimal color palette to represent college sports teams. *August 2021*

**u/cbbBot** - Python script to automate timely creation of college basketball Reddit discussion threads. *January 2017 - Present*

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## SKILLS

**Programming Languages:** Python, R, Java, SQL, AMPL, LaTeX

**Courses:** Statistical Learning Theory; Machine Learning; Statistical Computing; Forecasting; Data, Inference, and Decisions; Linear Models; Stochastic Processes; Time Series; Algorithms for Data Science; Probability and Statistics at Advanced Level