

# CHRISTINA CARR

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Portfolio: <https://github.com/ccarr1499/data-science> LinkedIn: [linkedin.com/in/christina-m-carr](https://www.linkedin.com/in/christina-m-carr)

I'm passionate about using data to better understand behavioral science and human decision making.

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## EDUCATION

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### *Master of Information and Data Science*

University of California, Berkeley

Aug. 2020 - Aug. 2021

- Inaugural and sole recipient of the Sharon Lin & Andrew Bullen Graduate Fellowship in Data Science

#### *Coursework*

Research Design and Applications for Data and Analysis | Statistics for Data Science | Fundamentals of Data Engineering | Applied Machine Learning | Natural Language Processing with Deep Learning | Data Visualization | Experiments and Causal Inference

### *Bachelor of Arts, High Honors in Cognitive Science*

University of California, Berkeley

Aug. 2016 - May 2020

- Moore Accuracy Lab: Research Assistant May 2019 - May 2020
    - Investigated the influence of different environments on overconfidence in decision making
  - Data Scholars at Berkeley: Lead of Communications and Outreach Jan. 2017 - Jul. 2017
    - Led and organized orientation and networking events
    - Facilitated the creation of a mentorship program to assist underrepresented students in data science
  - University of California Marching Band: Trip Manager, Food Manager Jan. 2018 - Dec. 2018
    - Managed the travel and logistics for the band's (250+ person) trip to Los Angeles
    - Negotiated a lower hotel reservation cost by encouraging competition between multiple hotels
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## RESEARCH AND WORK EXPERIENCE

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### *Senior Data Science Intern*

IBM Watson Health

May 2021 – Present

- Implementing a reinforcement learning-based AI model to optimize medical imaging assignments to radiologists using Keras and PyTorch
- Lead planning of social and professional events with a team of other leads for 300 interns in my business unit

### *Lead of Customer Data Analytics*

Osher Lifelong Learning Institute

Aug. 2018 – May 2021

- Discovered substantial points of financial loss in the company's fee system, and researched ways to mitigate this loss by analyzing customer spending habits in Python
- Measured the effectiveness of increasing member outreach by creating a report on the change in breadth of customer locations using Python heatmaps
- Programmed a predictive customer churn model using Python's scikit-learn package to guide business decisions related to targeted discounts and customer recruitment
- Executed a sentiment analysis project on survey data to measure customer satisfaction in the transition to online courses

### *Operations Coordinator*

Classroom Management Program

Aug. 2017 - Dec. 2018

- Analyzed nightly shift data on student groups' classroom use responsibility, using this data to communicate warnings to group leaders if policies were violated
  - Managed 40+ employees, ensuring they accurately and concisely reported on classroom use infractions
  - Increased efficiency and ease of analysis by designing an online form for future company use
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## SKILLS

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Python (pandas, matplotlib, scikit-learn, re, scipy, csv, nltk) | R (ggplot2, dplyr, tidyr, stringr) | SQL | Tableau | Microsoft Suite | Google Drive | Photoshop | InDesign | Communication | Teamwork | Leadership

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## PROJECTS

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### ***Improving Macroeconomics Forecasting***

*MIDS Capstone*

*May 2021 – Present*

- Developing a behavioral economics-based machine learning model to provide more accurate forecasts of macroeconomics measures such as unemployment and GDP based on historical economic tendencies, as well as human forecasters' tendency to be overconfident in their predictions

### ***Braille Translation with a Keras-Based Language Model***

*Natural Language Processing with Deep Learning*

*Feb. 2021 – April 2021*

- Creating a predictive language model for translating images of US contracted Braille to the Latin alphabet using Keras and the noisy channel model

### ***Investigating University Underreporting of Covid-19 Cases***

*Data Visualization*

*Feb. 2021 – April 2021*

- Developing a user-friendly interactive website using Altair in Python and HTML to investigate the pervasiveness of underreporting of Covid-19 cases at universities across the US

### ***Music to Promote Auditory Comprehension***

*Experiments and Causal Inference*

*Feb. 2021 – April 2021*

- Researching the effectiveness of listening to classical music on auditory comprehension using Qualtrics for survey development and R to conduct statistical analysis on the data

### ***MRI Dementia Classifier***

*Applied Machine Learning*

*Nov. 2020 – Dec. 2020*

- Created an image classification model to predict stage of dementia of an MRI scan using Keras and K-Nearest Neighbors

### ***Lyft Bay Wheels***

*Fundamentals of Data Engineering*

*Aug. 2020 – Sept. 2020*

- Answered business-driven questions about data from Lyft Bay Wheels in a project using SQL and Jupyter Notebooks with Google Cloud Platform and BigQuery

### ***Digit Classification***

*Applied Machine Learning*

*Aug. 2020 – Sept. 2020*

- Implemented an image recognition system for a classification project studying digits using K-Nearest Neighbors, Naive Bayes, and Linear Regression classifiers in Python's scikit-learn package

### ***Self-Esteem and Self-Enhancement Bias***

*Senior honors thesis; Moore Accuracy Lab*

*Aug. 2019 – May 2020*

- Conducted my honors thesis researching the influence of self-esteem on the exhibition of self-enhancement bias by cleaning, visualizing, and modeling data using statistical tests in R