Vivian R. Du

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PERSONAL STATEMENT

A current fourth-year undergraduate at UC Berkeley studying Data Science and Linguistics with a concentration in Cognition. Has experience in Python and R for data visualization and related coursework in neural networks, natural language processing, and data science.

EDUCATION

B.A. in Data Science Expected May 2022 University of California, Berkeley
Concentration in Cognition

B.A. in Linguistics Expected May 2022 University of California, Berkeley

GPA: 3.55/4.0

TEACHING

CS61BL Academic Intern **June 2020-Aug 2020**

EECS, UC Berkeley

Course staff for UCB's CS61BL class: Data Structures; Help students with programming and conceptual coursework, including labs and projects in Java.

RESEARCH

Undergraduate Research Apprentice Program (URAP) **Aug 2020-Present**

Linguistics, UC Berkeley

Research project under Professor Eve Sweetser. Examines how gesture reflects the meaning of conditionality, and how gesture reflects the differences between kinds of conditional meaning. Completing transcription and analyzing data.

CoronaNet Research Project **Aug 2020-Present**

Remote

International research project led by Joan Barcelo, Cindy Cheng, Allison Spencer Hartnett, Robert Kubinec, Luca Messerschmidt that examines government policies and responses towards COVID-19 around the world. Assisted with data engineering as well as expanded data collection on various countries. Developed frontend for current website: https://www.coronanet-project.org/.

VOLUNTEER

Wikitongues Language Indexing Project **May 2021-Present**

Remote

Helping implement a web crawling tool in Python that powers language indexing at Wikitongues. The tool works by visiting a number of online platforms and gathering links related to every language in the world.

PROJECTS

COVID-19 IHME Model **Mar 2021**

Implemented functions to fit the IHME model to a time series of COVID-19 deaths in Alameda County, CA using nonlinear least squares and Python libraries including SciPy in Python. Analyzed reliability of predictions.

FEC Public Records Data **Oct 2020**

Connect to SQLite database containing FEC public records of donations during the 2016 election cycle. Examine individual donation contributions by sorting, merging, grouping with SQL.

World Color Survey: Brightness, Chroma, and Color Foci Paper **May 2019**

Analyzed World Color Survey data to find correlation between number of unique color terms and color saturation across multiple languages. Analyzed and created visualizations of the data using Python to improve readability and summarized findings in a final report.

RELEVANT COURSEWORK

Principles and Techniques of Data Science, Computational Models in Cognition, Concepts of Probability, Linear Algebra in Data Science, Quantitative Methods in Linguistics, Data Structures, Introduction to Linguistic Science, The Foundations of Data Science, Data Science and the Mind, Introduction to Cognitive Science, The Structure and Interpretation of Computer Programs

COMPUTER & LANGUAGE SKILLS

Native: English
Intermediate: Mandarin, French
Basic: Japanese
Python, Java, R, Jupyter, Git, HTML/CSS, Microsoft Office