

# GABRIELLE WALD

[gabibmello@gmail.com](mailto:gabibmello@gmail.com) • (617) 413-0253 • [LinkedIn](#) • [GitHub](#)

I am a Data Scientist interested in surfacing insights from data. I have experience creating accessible visualizations and predictive models for a wide range of applications. I'm passionate about the scientific method and use of technology to generate positive impact, improve services, and uncover possible solutions.

## EXPERIENCE

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### Data Scientist Fellow, Springboard School of Data

Aug 2020 – Present

- Created predictive model to understand students' performance in CA K-12 public schools
- Formulated and tested hypotheses to understand demographic factors in performance
- Found and transformed several files to construct unique datasets
- Used machine learning algorithms in classification and regression models

### Data Scientist Fellow, DS4A Correlation One

Oct 2020 – Feb 2021

*Merit-based fellowship with 5% acceptance rate led by Harvard Prof. Natesh Pillai*

- Co-created capstone project to understand financial impact in K-12 public education in CA
- Run regression models to determine variables of impact and identify confounding factors
- Performed t-test and chi-square analysis for hypothesis testing
- Conducted exploratory data analysis and created meaningful plots to identify patterns

### Research Data Analyst, SELF-lab, UC Davis

May 2019 – Jul 2020

- Ran descriptives and constructed visualization for research in collaboration with the World Bank
- Organized and cleaned data files with over 63k data points in R/Excel for research
- Collaborated with researchers and participated in planning meetings

### Research Assistant, Oakes Lab, Center for Mind and Brain

Aug 2017 – Oct 2018

- Ran eye-tracking software SMI, collected and coded infant behavior data
- Screened participants and followed IRB guidelines for research projects
- Trained new RAs on lab procedures and collaborated with the research team

### Research Assistant, Rivera Lab, Center for Mind and Brain

Aug 2018 – Jul 2019

- Carried out data collection for behavioral studies
- Administered eye-tracking to study subjects
- Collaborated with P.I., PhD students, and fellow researchers

### Vice President of Scholarship, PTK Honor Society International

Jan 2015 – Jan 2016

- Partnered with organizations for collaboration on campus projects
- Led weekly meetings with society members to address action items
- Organized and presented induction ceremony to welcome new inductees

## EDUCATION

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### Springboard School of Data, Data Science

2020 – 2021

- 550+ hours of hands-on coursework, with 1:1 industry expert mentorship, and completion of 2 in-depth capstone projects
- Developed skills in Python, SQL, data wrangling, data visualization, hypothesis testing, and machine learning

### University of California Davis, BS Cognitive Science, 3.65 GPA

2017 – 2020

- Computer Science and Neuroscience emphasis
- Relevant coursework: Applied Statistics, Biostatistics, Statistical Analysis in R, Linear Algebra, Research Methods, Data Structures and Algorithms in Python, Object Oriented Programming in Python

## PROJECTS

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### Passing the Standards Projection

May 2021

*Created predictive model to project the percentage of K-12 students passing standard tests in California public schools. This project was an in-depth investigation of factors possibly effecting school performance.*

- Modeled training data with several regression algorithms: Linear Regression, Logistic Regression, Decision Tree, Random Forest, Lasso and PCA
- Created unique dataset with test scores, financial investment in education, and several demographics regarding students and their families

## **SKILLS**

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### **Languages and Packages**

- Python, pandas, scikit-learn, NumPy, statsmodel, Jupyter, matplotlib, seaborn

### **Predictive Modeling**

- Linear/ Logistic Regression, Classification, Clustering, Decision Tree, Random Forest

### **Probability and Statistics**

- Hypothesis Testing (t-test, chi-squared, regression), A/B Testing

### **Data Science Methods**

- Wrangling, Cleaning, Analysis, Visualization, Storytelling

### **Version Control**

- Git, Github

### **Databases**

- SQL