# GABRIELLE WALD

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## SUMMARY

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 the use of technology to generate positive impact, improve services, and uncover possible solutions.

## EXPERIENCE

**Data Science Fellow, Springboard School of Data** **Aug 2020 – Present**

*550+ hours of hands-on coursework, with 1:1 industry expert mentorship*

- Created predictive model to understand student 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 Science Fellow, DS4A Empowerment Program | 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 CA K-12 public schools
- Ran 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 with over 63,000 data points in R / Excel to prepare data for analysis
- Collaborated with researchers and participated in planning meetings

**Research Assistant, Oakes Lab | Center for Mind and Brain** **Aug 2018 – Jul 2019**

- 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 2017 – Oct 2018**

- 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

**University of California Davis** **2017 – 2020**

- Bachelor of Science in Cognitive Science, Computer Science and Neuroscience emphasis, 3.65 GPA
- Relevant coursework: Applied Statistics, Biostatistics, Statistical Analysis in R, Linear Algebra, Research Methods, Data Structures and Algorithms in Python, Object Oriented Programming in Python

**University of Hawaii | Kapiolani Community College** **2013 – 2015**

- Associate of Arts in Liberal Arts, Applied Linguistics Concentration 4.0 GPA Valedictorian
- Leadership: Vice President of Scholarship at Phi Theta Kappa - Alpha Kappa Psi Chapter

## PROJECTS

**Passing the Standards Projection** **May 2021**

Exploratory Data Analysis

- This project was an in-depth investigation of factors possibly affecting school performance
- Designed predictive model to project the percentage of students passing standard tests in CA K-12 public schools
- 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

- Programming: Python, numpy, pandas, matplotlib, sklearn, statsmodel, seaborn, jupyter notebook
- Descriptive and Inferential Statistics: p-value, test for significance (z-test, t-test, chi-squared, ANOVA)
- Experimental Design: A/B testing, hypothesis testing, confidence level
- Predictive Modeling: linear regression, logistic regression, classification, clustering, decision trees, random forest
- Data Science Methods: mining, wrangling, cleaning, analysis, visualization, storytelling
- Version Control: git, github
- Databases: SQL