

# GABRIELLE WALD

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## SUMMARY

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Data Scientist interested in surfacing insights from data. Experience creating accessible visualization and predictive models for a wide range of applications. Deep interest in the scientific method and the use of technology to generate positive impact, improve services, and discover solutions.

## EDUCATION

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### MIT Professional Education

2021 – Present

- Data Science and Machine Learning: Making Data-Driven Decisions
- Relevant coursework: Regression and Prediction, Hypothesis Testing and Classification, The Use of Modern Regression for Causal Inference.

### University of California Davis

2017 – 2020

- Bachelor of Science in Cognitive Science, **3.7 GPA**
- 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

### University of Hawaii | Kapiolani Community College

2013 – 2015

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

## EXPERIENCE

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### Data Scientist Fellow, Springboard School of Data

Sep 2020 – Sep 2021

*600+ 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 Analytics and AI 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

### Data Analyst at SELF-Lab, University of California 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, UC Davis Center for Mind and Brain

Aug 2017 – Jul 2019

- Carried out data collection for behavioral studies
- Ran eye-tracking software SMI and coded infant behavior data
- Screened participants and followed IRB guidelines for research projects
- Trained new RAs on lab procedures and 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

### Language Tutor, University of Hawaii

Aug 2014 – Dec 2015

- Conducted tutoring sessions to assist students of English and Brazilian Portuguese with language assignments

## PROJECTS

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### Auction Fraud Detection

July 2021 – Present

Exploratory Data Analysis | Feature Engineering

- Performed feature engineering to predict auction fraud through classification machine learning models
- Conducted exploratory data analysis of auction data to understand variables importance and create new features

### Predicting Test Performance in California Public Schools

May 2021

Education Project | Machine Learning Models

*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 linear regression, lasso, decision tree, random forest, and gradient boosting
- Combined multiple datasets and tested hypotheses to address open ended questions

## SKILLS

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- Programming: Python, numpy, pandas, matplotlib, sklearn, statsmodel, seaborn, jupyter notebook
- Statistics: p-value, test for significance (z-test, t-test, chi-squared, ANOVA)
- Experimental Design: A/B testing, hypothesis testing, confidence level
- Predictive Modeling: logistic regression, lasso, decision tree, random forest, gradient boosting
- Data Science Methods: mining, wrangling, cleaning, analysis, visualization, storytelling
- Version Control: git, github
- Databases: SQL
- Languages: Fluent in English and Brazilian Portuguese

## CERTIFICATES

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- Data Analytics and AI Fellowship, 300 hours
- Machine Learning with Tree-Based Models in Python
- Feature Engineering for Machine Learning in Python
- Supervised Learning with scikit-learn
- Data Visualization with Matplotlib and Seaborn
- Statistical Thinking in Python
- Data Manipulation with pandas
- Intermediate SQL