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Fort Bragg, California



JoshuaPaulBarnard.com

## Abilities

Data Analysis

Data Visualization

Project Management

Software Development

Multimedia Production

Web Development

Web Design

# Joshua Paul Barnard

## Research Analyst



## Education

### Data Science — Masters of Science

Johns Hopkins University

2021 - 2025

Engineering for Professionals program with the Whiting School of Engineering. Machine Learning, Data Analysis & Visualization, Prediction Modeling, & ETL. Concludes with capstone project of publishable quality.

### Psychology — Bachelor of Arts

Humboldt State University

2012 - 2016

Minors in Applied Statistics, and in Applied Mathematics. Courses included: ANOVA, Regression, Multivariate Stats & Statistical Modeling. Completed two pieces of undergraduate research & presented at WPA in 2015. Utilized R, Python, SPSS, & WinBUGS..

### Computer Science — Associates of Science

Santa Rosa Junior College

2016 - 2021

Additional AA in Web & Multimedia, and AS in Mathematics. Learned Data Structures, Algorithms, Relational Databases, & Web Development. Utilized Java, SQL, JavaScript, Linux, C++, Excel, HTML5, CSS3 & Photoshop.



## Experience

### Property Manager

2020 - 2023;  
Fort Bragg, CA

Performing regular maintenance and repairs.  
Handling all tenants inquiries and requests.  
Ensuring Security and compliance with all safety regulations.

### Computer Science Instructor

Mendocino College;  
2022;  
Fort Bragg, CA

Classes Taught: Digital Image Manipulation with Photoshop.  
Curriculum Development.  
Embedded Tutor for Statistics & Math classes.

### Student Tutor

Santa Rosa Junior College;  
2003 – 2018;  
Santa Rosa, CA

1 on 1 tutoring with Individual students.  
Group Tutoring.  
Drop-In Lab Tutoring.

Subjects Included:  
Statistics, Math, Excel,  
Web Development, &  
Programming.



## Projects

### Predicting Wine Quality

The Johns Hopkins University

Comparing Linear Regression with kNN, Decision Tree and Random Forest with Bayesian Inference to Predict Wine Quality in Python.

### SNAP Cats Website Redesign

Santa Rosa Junior College

Redesigned for non-profit, from old HTML3.0 to a responsive WordPress site. As the Agile Leader I was responsible for scheduling, and coordinating between Instructor, Client, and Team.

### Undergraduate Research

Humboldt State University

Reliability and Validity of the Health Efficacy Scale for College Students.  
Only Author.  
Presented at the WPA Conference in 2015.