

# Brandie Hatch

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Reliable and collaborative designer turned data scientist with extensive experience in instruction as a Learning Specialist. My transferrable skills of communication, flexibility, patience, and authenticity are best when solving problems for technical and non-technical audiences. I'm interested in how data science can solve for better learning opportunities.

## Skills

**Languages / Environments** | Python, SQL, HTML, CSS, Google Colab, Jupyter Notebook, Anaconda, Command Line, VS Code, Git, GitHub, Git Bash, Adobe Acrobat Pro

**Packages** | Pandas, NumPy, SKLearn, NLTK, BeautifulSoup, TensorFlow

**Data Visualization** | Seaborn, Plotly, Tableau, PowerBI

**Modeling** | Statistical Modeling, Regression Models, Classification Models, Time Series Analysis, Neural Networks, Image Classification

**Statistics** | Statistical Distributions, Bayesian Analysis, p-Values, Bayes Theorem

**Human-based** | Negotiation, Consultation, Leadership, Dynamic Presentation, Project Management (Agile, SAFe), Communication, Process Improvement, Passionate, Curious

## Relevant Professional Experience

### Data Analyst

2020 – Present

Volunteers of America Western Washington

- Entered data and completed analysis for Hunger Prevention's COVID-19 Emergency Food Lifeline distribution (2021) and Community Development Block Grant (CDBG) sponsored by Washington State Dept of Commerce and Work Force Snohomish County (2022).
- Wrote grants and reports for the Washington State Department of Agriculture (WSDA) which gained \$50,000 to repair a food bank freezer and provide a tractor for the community garden that supplies fresh vegetables to the food bank.

### Team Lead; Sr. Learning Experience Designer

2018 – 2020

### Instructional Systems Designer

2016 – 2018

Boeing

- Administered Usability Studies to improve the user experience of performance support materials like job aids and knowledge articles to help employees use [Workday](#) cloud ERP. Results of studies: 29% increase in task completion, 63% decrease in average on-task minutes.
- Designed a web-based course which saved [Global Equity, Diversity, and Inclusion](#) specialists many business hours introducing board member roles and processes to 9 Enterprise Business Resource Groups with 152 Chapters.
- Negotiated with leaders to use hands-on activities for resume and interview skills during the Historically Black Colleges and Universities (HBCU) Boeing Scholar Bootcamp.

Achieved 95% positive feedback from attendees and accolades from Diversity leaders for program innovation.

- Designed, Developed, and Maintained Web-based Training for Manufacturing, Quality, and Safety, i.e., Autoclave Operations, Automated Equipment Safety, and Foreign Object Prevention (decreased cost of development by 80%).
- Blackboard Master Designer/Developer Functional Lead responsible for Instructional Designer and Developer courseware process standards to create courses in [Blackboard](#).

## **Curriculum Developer**

2014 – 2016

UW Medicine

- Created visualizations in Tableau to report Resident assessment results to the Assistant Director of Education and Director of Graduate Medical Education.
- Analyzed data from assessments and surveys to direct training program decisions.
- Wrote evaluations to collect feedback data from course attendees

## **Projects from Data Science Immersive Flex**

- **Portuguese Bank Marketing**, as the customer's individual bank balance decreases, how does the credit default status of a customer change? Tools - Python, Pandas, Numpy, Matplotlib, Excel, Kaggle Data (06/2022)
- **Web APIs and NLP**, how do the users of the Service Dogs Reddit and the Dog Training use language differently? Tools - Python, Excel, Reddit, Pushshift API (05/2022)
- **Ames Housing Data and Kaggle Challenge**, as Black or African American populations rise in a census tract area, how does the sale price of houses in Ames, Iowa change? Tools - Python, US Census Data, Excel (04/2022)
- **Standardized Test Analysis**, exploration of a possible correlation between the California school districts with the most Free and Reduced-Price Meal (FRPM) participant and their scores on the ACT & SAT. Tools - Python, Excel (03/2022)

## **Education**

### **Master of Education in Information Science and Learning Technologies**

University of Missouri – Columbia, Cum Laude

### **Bachelor of Science in Education**

University of Missouri - St. Louis, Magna Cum Laude

### **Data Science Certification**, August 2022

General Assembly, Washington, DC

### **Data Visualization Certificate**, August 2017

University of Washington