

ROSE CONTI PORTA

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EDUCATION

SMITH COLLEGE

Northampton, MA

Major: Statistical & Data Sciences | **Concentration:** Community Engagement & Social Change B.A. Expected Spring 2023

Cumulative GPA: 3.99/4.0

Relevant Coursework: Intro to Statistical and Data Sciences, Multiple Regression Statistics, Intro to Computer Science, Communicating with Data, Programming with Data Structures, Linear Algebra, Probability, Multivariable Calculus, Discrete Mathematics, Mathematical Statistics, Advanced Programming in R, Data Ethnography

Skills: R (tidyverse, Shiny), Python, Java, SQL, Mathematica, Data Wrapper, GitHub, data manipulation, data visualization, data analysis, data communication, Google Sheets, Google Colaboratory and Jupyter Notebook, project management

WORK EXPERIENCE

Women's Brick Initiative (WBI)

Mercer Island, WA

Data Analysis Intern | github.com/rporta23/WBI

Summer 2022

- Conducted a series of research projects analyzing diversity and representation within LEGO Minifigures.
- Collaboratively wrote 20 short blog-style articles to convey research findings to the public through the WBI website.
- Used R for web scraping, data wrangling, and data visualization, and GitHub for code collaboration.

DSC-WAV: NSF Funded Workforce Development Grant through Smith College

Northampton, MA

Data Science Intern | <https://dsc-wav.github.io/www/projects.html>

Fall 2021-Spring 2022

- Built an interactive map dashboard which visualizes the story of the impact of highway I-91 being built through Springfield, MA on the communities it divided through historical map images and visualization of racial demographic data.
- Collaborated with a team of six students advised by a faculty mentor and partnered with New England Public Media.
- Employed Leaflet and R Shiny to develop the dashboard and GitHub to work collaboratively according to a Scrum (Agile) workflow.

B.I.G. Summer Research Program, Institute for Quantitative & Computational Biosciences, UCLA

Los Angeles, CA

Research Assistant | <https://qcb.ucla.edu/big-summer/big2021/#toggle-id-47>

Summer 2021

- Detected cell type interaction eQTL effects from bulk RNA-seq data using computational methods under the advisory of Dr. Bogdan Pasaniuc. The project was completed within eight weeks.
- Authored an abstract and delivered a 5-minute presentation to communicate research findings.

STRIDE Scholar, Department of Statistical and Data Sciences, Smith College

Northampton, MA

Research Assistant

Fall 2019-Spring 2021

- Edited introductory data science textbook by Dr. Benjamin Baumer.
- Contributed to the development of an R package used to import data from Wikipedia into R.

PROJECTS

Analysis of Access to Emergency Funds in Sub-Saharan Countries: A Human-Rights Based Approach

Smith College

Sponsored by Women at the Table | <https://github.com/sds-capstone/2022-09-proj7-women-at-table>

Fall 2022

- Trained a Decision Tree Classifier Machine Learning model to predict whether or not an individual has access to emergency funds with 68% accuracy. The model makes predictions using demographic and other financial data sourced from The 2017 Global Findex Database published by The World Bank.
- Assessed fairness of the model based on gender using a variety of group and individual fairness metrics and implemented de-biasing techniques to improve the fairness.
- Documented the full analysis in an iPython Google Colab notebook structured as an educational resource for more ethical machine learning including full explanations of each step of the analysis oriented toward a non-technical audience.

Trends in Students Studying Early Childhood Education in The Pioneer Valley, MA

Smith College

In partnership with Community Action Pioneer Valley Head Start and Early Learning Programs

Fall 2022

- Collected and analyzed data on the numbers and demographics of students studying Early Childhood Education (ECE) from post-secondary institutions within the Pioneer Valley, MA.
- Integrated data from IPEDS, the Census Bureau Household Pulse Survey, and the Bureau of Labor Statistics in order to contextualize the survey data into the larger story of the ECE labor shortage and the impacts of the pandemic on the same.
- Summarized findings into a report for Community Action Pioneer Valley Head Start and Early Learning Programs in order to inform their funding plans for the upcoming funding cycle.

- Used multiple logistic regression and publicly available U.S. census data from IPUMS NHIS to analyze depression and sleep duration as inter-related predictors of diabetes.
- Report received **first place** in Undergraduate Statistics Class Project Competition (USCLAP) Intermediate Statistics Division, Spring 2020
- Presented at the Electronic Undergraduate Statistics Research Conference (eUSR) Fall 2020: bit.ly/3Rv4Nrc

censusviz R package

Smith College

github.com/rporta23/censusviz

Spring 2022

- Built an R package which provides an interface for exploring and visualizing historical racial demographic census data (1950-2020) sourced from IPUMS for any region in the United States (by county).
- Devised functionality for visualizing the data on leaflet maps as well as for accessing the data in an accessible, tidy format such that the user can then create their own visualizations.

LEADERSHIP EXPERIENCE

Chair of Smith College Community Service Organization, 2022-2023 Academic Year

- Supporting the functioning of events and programming through management of CSO Core and active integration into the Jandon Center for Community Engagement staff team.
- Managing tracking of data for events and initiatives including attendance, date, time, and location using Salesforce.
- Organizing CSO events to build community among Smith students as well as to connect students with the broader community.

Chair of House Representatives, Smith College Community Service Organization, 2021-2022 Academic Year

- Organized biweekly meetings to plan student-led community engagement projects.
- Lead and coordinated a project for students to make no-sew fleece blankets to donate to folks in need. Donated 10 blankets to DIAL/SELF—a local organization that provides resources to youth at risk of homelessness.

American Red Cross Volunteer, Disability Integration, Summer 2022

- Compiled a resource guide of 25 organizations that provide services for folks with disabilities within the Eastern NY Region and distributed it to be readily available in emergency shelters that pop up in response to natural disasters such as floods or fires.
- Reached out to all organizations listed in the guide in order to establish ways to collaborate to meet the immediate needs of folks with disabilities in the case of natural disaster.
- Contributed to creating bins of resources to address immediate needs of folks with disabilities to be available in pop-up shelters; bins contained supplies such as fidget toys, noise-canceling headphones, weighted blankets, and specialized eating utensils.