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, Google Sheets

WORK EXPERIENCE

Women's Brick Initiative 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.
- Wrote a series of 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.
- Worked on a team of six students advised by Professor Benjamin Baumer and in partnership 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
- Worked in Dr. Bogdan Pasaniuc's lab on a project to identify cell type interaction eQTL effects from bulk RNA-seq data using computational methods.
- 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

Sex Differences in Depression and Sleep Disturbance as Inter-Related Risk Factors of Diabetes | bit.ly/3pCfgWf
- Used multiple logistic regression and publicly available U.S. census data from IPUMS NHIS to analyze depression and sleep as inter-related predictors of diabetes.
- Submitted report to Undergraduate Statistics Class Project Competition (USCLAP) and received first place in the Intermediate Statistics Division, Spring 2020
- Presented at the Electronic Undergraduate Statistics Research Conference (eUSR) Fall 2020: https://www.causeweb.org/usproc/eusrc/2020/program/10
- Revised report substantially and published in peer-reviewed journal *Frontiers in Clinical Diabetes and Healthcare* Summer 2022

censusviz R package | github.com/rporta23/censusviz
- 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).
- The package provides 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 Jandon events and programming through management of CSO Core and active integration into the staff team.

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.