Marium Tapal

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EDUCATION

Smith College   Northampton, MA
B.A. in Mathematics & Statistical and Data Sciences   May 2022

- GPA: 3.96/4.00
- Awards: Dean's List 2018-2019, 2019-2020
- Selected Coursework: Advanced Programming in R, Bayesian Data Analysis, Multiple Regression, Intro to Data Science, Statistics in Education, Intro to Computer Science, Linear Algebra, Intro to Analysis, Complex Analysis, Probability
- Technical Skills: Advanced: R, Git/GitHub; Experience with: Python, SQL, LaTeX, HTML/CSS

Nixor College   Karachi, Pakistan
Advanced Levels, 4A*s & 1A   August 2018

TECHNICAL EXPERIENCE & PROJECTS

Smith College - Program in Statistical and Data Sciences   Northampton, MA
Undergraduate Researcher, Benjamin S. Baumer's Lab   Jan'20 – Present

- Develop R package {fec16} with 12 datasets and 4 functions containing relational data from the 2016 U.S. federal elections; publish on the Comprehensive R Archive Network (CRAN) with 4500+ downloads. github.com/baumer-lab/fec16
- Present at the WSDS and eUSR conferences with materials made using {posterdown} and {xaringan} R packages.
- Author complementary {fec12} and {fec20} R packages for the 2012 and 2020 elections respectively. github.com/baumer-lab/fec12, github.com/baumer-lab/fec20

FinePrint Data   Remote
Data Science Intern   Jan'21 – Feb'21

- Studied political investment data and explored factors that influence trading decisions.
- Translated code from Stata into R, built over 150 statistical models, and presented findings through R Markdown reports.

Smith College - Program in Statistical and Data Sciences   Remote
Data Science Research Intern, Prof. Albert Y. Kim   Jun'20 – Jul'20

- Updated the {fivethirtyeight} R package to host large datasets via a drat repository which boosted downloads by over 40% in the first month of release by closing 4 major enhancements and issues. github.com/rudeboybert/fivethirtyeight
- Improved reproducibility of the ModernDive textbook built using the {bookdown} R package by contributing to 5 issues. github.com/moderndive/ModernDive_book

Projects

- Automated Bayesian Simple Normal Regression: generate a fully customizable R Markdown report with a single line of code. github.com/mariumtapal/bayes-regression-report
- Personal Website built using the {blogdown} R package, Hugo, and the Goa theme. mariumtapal.rbind.io
- Marium Bakes - a baking recipe website built using R Markdown, HTML, and CSS. mariumtapal.github.io/marium-bakes

LEADERSHIP EXPERIENCE

Smithies in Statistical and Data Sciences   Northampton, MA
Vice President & Data Mentor   Sep'19 –Present

- Lead over 100 organization members, create community, and arrange data science themed events.
- Host Rmarkdown tips and tricks workshop, data visualization tea, and Data Science Day for 75+ attendees.

Smith College Residence Life   Northampton, MA
House Community Advisor   Aug'19 – Present

- Cultivate community in 3 different houses with 70+ residents each.
- Act as the initial contact person for all residents, conduct social justice mediations, facilitate internal governance, enforce college policies, and organize educational programs.

EKTA (Smith's South Asian Student Organization)   Northampton, MA
Publicity Chair, Social Chair   Sep'18 – Present

- Organize weekly events relating to South Asian culture, cuisine, and practices
- Conceptualize marketing and coordinate catering for events gathering 100+ people

ADDITIONAL INFORMATION

Languages: English (Fluent), German (Basic), Urdu (Native), Gujarati (Native)
Trainings & Certifications: CITI – IRB Researchers, Social Justice Mediation, Wall Street Prep Bootcamp