

# Marium Tapal

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## EDUCATION

### Smith College

B.A. in Mathematics & Statistical and Data Sciences

Northampton, MA

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

Advanced Levels, 4A\*s & 1A

Karachi, Pakistan

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](https://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](https://github.com/baumer-lab/fec12), [github.com/baumer-lab/fec20](https://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](https://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](https://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](https://github.com/mariumtapal/bayes-regression-report)
- Personal Website built using the `{blogdown}` R package, Hugo, and the Goa theme. [mariumtapal.rbind.io](https://mariumtapal.rbind.io)
- Marium Bakes - a baking recipe website built using R Markdown, HTML, and CSS. [mariumtapal.github.io/marium-bakes](https://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