Marium A. Tapal

email: mtapal@smith.edu | website: mariumtapal.rbind.io

TECHNOLOGICAL EXPERIENCE & PROJECTS

DEPT. OF STATISICAL AND DATA SCIENCES, Smith College

Undergraduate Researcher, Prof. Benjamin S. Baumer

Jan'20 – Present

- Develop R package fec16 which contains relational data from the 2016 United States federal elections in the form of pre-loaded datasets and functions. It is hosted on the **Comprehensive R Archive Network** (CRAN)
- Present an e-poster at the Women in Statistical and Data Sciences 2020 conference

Data Science Intern, Prof. Albert Y. Kim

Summer 2020

- Major update to fivethirtyeight R package to host large datasets via an add-on data package using the drat functionality.
- Internal code improvements for better reproducibility of the online ModernDive textbook. Refresh associated website built via GitHub pages for better organization and aesthetics. Debug and fix issues in the supplementary R package

SMITHIES IN STATISTICAL AND DATA SCIENCES

Data Ambassador

Sep'19 – Present

- Design and conduct IRB approved survey to create an open-source database for Smith students. Use data science methods to deliver key findings
- Organize Smith's 2nd Data Science Day with a panel discussion and data-related activities including a data science themed 3-leveled word search

UNITED BANK LIMITED, Karachi, Pakistan

Treasury & Capital Markets Intern

Summer 2019

- Performed statistical analysis of the bank's financial statements using MS Excel and R
- Shadowed teams and analyzed products via simulations of real-world transactions
- Used the Bloomberg Terminal to monitor real-time market data and trading

PERSONAL PROJECTS

- Baking Website using R Markdown, HTML and CSS
- Minesweeper game in Python for Spring 2019 Introduction to CS course final project

LEADERSHIP EXPERIENCE

SMITH COLLEGE RESIDENCE LIFE

House Community Advisor

Aug'19 - Present

- Work as a liaison between house residents and the college's service departments
- Act as the initial contact person for all residents in the house, conduct social justice mediations, facilitate internal governance, enforce college policies, and organize educational programs in the house

EKTA (SMITH'S SOUTH ASIAN STUDENT ORGANIZATION)

Publicity Chair, Social Chair

Sep'18 – Present

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

OTHER EXPERIENCE

Undergraduate Researcher, Dept. of Math, Smith College	Sep'19 – Dec'19
Dining Hall Worker, Smith College	Sep'18 – May'19
Senior Teaching Assistant, Advanced Level Mathematics	Sep'16 – Jun'18
The Nixor Times, Chief Executive Officer	Sep'16 – Feb'18



EDUCATION

SMITH COLLEGE

Northampton, MA, USA

B.A. in

Statistical and Data Sciences

& Mathematics

expected May 2022

Cum. GPA: 3.98/4.00

Major GPA: 4.00/4.00

NIXOR COLLEGE

Karachi, Pakistan

Cambridge Advanced Level

Class of 2018

Grades: 4A* & 1A

TECHNICAL SKILLS

Expert:

- R
- Git/GitHub

Intermediate:

- Python
- HTML/CSS
- MATLAB

Familiar:

• SQL

COURSEWORK

Advanced Programming in R Multiple Regression Intro to Data Science Statistics in Education Intro to Computer Science Linear Algebra Intro to Statistics Multivariable Calculus

AWARDS

Complex Analysis

Dean's List 2019-2020 Dean's List 2018-2019 Dean's Wall 2017-2018 100% Merit Scholarship – A Level Pursuit of Excellence in Academics

TRAINGS & CERTIFICATIONS

Wall Street Prep Bootcamp CITI – IRB Researchers Social Justice Mediation