

Marium A. Tapal

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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

Vice President & Data Mentor Sep'19 – Present

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

UNITED BANK LIMITED, Karachi, Pakistan

Treasury & Capital Markets Intern Summer 2019

- Perform statistical analysis of the bank's financial statements using MS Excel and R
- Shadow teams and analyze products via simulations of real-world transactions
- Use 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

Dining Hall Worker, Smith College

Senior Teaching Assistant, Advanced Level Mathematics

The Nixor Times, Chief Executive Officer

Sep'19 – Dec'19

Sep'18 – May'19

Sep'16 – Jun'18

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

Complex Analysis

AWARDS

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

TRAININGS &

CERTIFICATIONS

Wall Street Prep Bootcamp

CITI – IRB Researchers

Social Justice Mediation