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

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

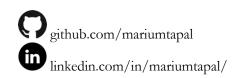**EKTA (SMITH'S SOUTH ASIAN STUDENT ORGANIZATION)**

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
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