Marium A. Tapal

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TECHNOLOGY EXPERIENCE & PROJECTS

DEPT. OF STATISICAL AND DATA SCIENCES, Smith College
Summer Research Intern, Prof. Albert Y. Kim   Summer 2020

- Major update to `fivethirtyeight` R package to include large datasets fully hosted on CRAN via the drat package. Other minor updates to better user experience
- Internal code improvements for better reproducibility of the online `ModernDive` textbook for introductory statistics and data science. Refresh associated website built via GitHub pages for better organization and aesthetics

Undergraduate Researcher, Prof. Benjamin S. Baumer   Jan'20 – Present

- Develop R package `fec16` through which users can easily access data from the US Federal Election Commission's 2016 election cycle through a combination of pre-loaded datasets and functions

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

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 STUDENTS ORG)
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

THE NIXOR TIMES, Nixor Corporate, Karachi, Pakistan
Chief Executive Officer   Sep'16 – Feb'18

- Founded and led a 6-member executive team and 20 interns
- Executed 4 projects resulting in 11 nominations and 4 wins in the award ceremony

FINANCIAL EXPERIENCE

UNITED BANK LIMITED, Karachi, Pakistan
Treasury & Capital Markets Intern   Summer 2019

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

OTHER EXPERIENCE

Undergraduate Researcher, Dept. of Math, Smith College   Sep'19 – Dec'19
Teaching Assistant, Advanced Level Mathematics   Sep'16 – Jun'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
- MATLAB

Familiar:
- SQL
- HTML/CSS

COURSEWORK

Advanced Programming in R
Multiple Regression
Intro to Data Science
Statistics in Education
Intro to Computer Science
Linear Algebra
Intro to Financial Markets
Introductory Microeconomics
Introductory Macroeconomics
Advanced Level Accounting

AWARDS

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