

Rohma Khan

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EDUCATION

Brooklyn College, City University of New York, Brooklyn, NY — *Bachelor of Science*

Graduated May 2020

Major: *Physics*; **Minor:** *Computer Science and Mathematics*

GPA: 3.77

Relevant Coursework: Atomic and Quantum Mechanics 1&2, Data Structures, Computer Architecture, Cryptography and Cryptanalysis, Discrete Structures, Electrical Circuits, Introduction to Hardware & Algorithms of Quantum Computing, Linear Algebra, Materials for Energy Conversion and Storage, Ordinary Differential Equations, Partial Differential Equations, Statistics and Probability, Theoretical Physics

EXPERIENCE

CUNY Brooklyn College, New York, NY — *Non Teaching Adjunct*

Spring 2021

- ♦ Taught 3 supplemental classes a week to two different introductions to Java sections.
- ♦ Debugged students code, answered questions and assisted the Professor with problems as they arose.

CUNY Brooklyn College, New York, NY — *Physics Lab, Research Assistant*

Summer 2020

- ♦ Mentored two high school students taking part in a College Now program in the laboratory.
- ♦ Researched, created, and wrote procedures for creation of gas hydrates to be applied once the lab opens.

RAMMP REU, New York, NY — *Scholar*

Summer 2019

- ♦ Learned graph theory and theoretical, algorithmic, and statistical methods for analyzing complex networks.
- ♦ Used python to analyze graphs and coded functions to perform statistical analysis on various graphs.
- ♦ Researched topics in Combinatorics and Graph Theory and wrote a paper in a group of 4 with mentor Professor Kingan on our result.
- ♦ Created a poster, presentation and gave talks on the results at various math conferences.

Data For Good, CUNY Brooklyn College — *Intern*

Spring 2019

- ♦ Analyzed a large data set from NYC Open Data using statistics and probability and graphically represented findings in charts and tables to convey results.

Metroplus Health Plan, New York, NY — *Provider Relations Intern*

Summer 2018, Summer 2017, Summer 2016

- ♦ Communicated with thousands of providers over the phone to update information in the computer system and solve problems that arose.
- ♦ Recredentialed hundreds of providers in time for monthly credentialing meetings.

SKILLS

♦ Computer Programming Languages: Python, Java, Qiskit, HTML, Reactjs

♦ Computer: Git, Microsoft Suit, Google Suit, Windows and Mac computer software, hardware and software required for recording and editing videos

♦ Languages: Urdu and Hindi

PROJECTS

Choropleth Map — September 2020

♦ Used python to analyze 2016 presidential election results and created a map using geoviews, and pandas packages.

ParTeaTime — *Hack at Home* May 2020

♦ Worked with team of 4 to create a social networking platform centered around tea. Applied React.js to front end.

Decrypter — Fall 2019

♦ Used Java, Python to encode, decode, encrypt and decrypt messages using a variety of cryptographic methods

AWARDS

Presidential Scholarship 2015-2019

Sam Schwartz Award for achievement in physics 2018.

Melba Phillips Prize 2019

Upsilon Pi Epsilon nominated 2019.

ACTIVITIES AND LEADERSHIP

♦ Secretary of Computer Science Club

♦ Planned Hack Brooklyn, Brooklyn College's first hackathon with a team of students.

♦ Gave talk on centrality measures in Line Graphs at two conferences

♦ Moderated the Technology, Engineering and Math Career Panel at Brooklyn College

♦ Member of putnam club, took Putnam exam 2019

♦ Member of WITNY (Women in Technology and Entrepreneurship in New York)