Rhia Singh

111-28 124th Street
South Ozone Park, NY 11420
Cell: (347) 846 9779
Email: rhia.singh@macaulay.cuny.edu

EDUCATION:

Macaulay Honors College at Hunter College – Manhattan, NY   08/20/2017 – 05/20/ 2021

Bachelor of Arts, Computer Science (Bioinformatics), Minor: Mathematics, Focus: Spanish

> GPA: 3.8
>
> Relevant coursework: Software Analysis and Design (I, II, III), Calculus (I, II, III), Applied Statistics (Honors), Linear Algebra, Intro. to Bayesian Inference, Operating Systems, Brain and Behavior, Biology (I, II with lab), Organic Chemistry (I), Physics (I, II)

PRESENTATIONS:
- Annual Biomedical Research Conference for Minority Students (ABRCMS)   November 2019
- Hunter College Undergraduate Research Conference   April 2020

PUBLICATIONS:

Yiming Tang, Raffi Khatchadourian, Mehdi Bagherzadeh, **Rhia Singh**, Ajani Stewart, Anita Raja. An Empirical Study of Refactorings and Technical Debt in Machine Learning Systems. *International Conference on Software Engineering* (ICSE). 2021

AWARDS/HONORS:
- Annual Biomedical Research Conference for Minority Students (ABRCMS) Presentation Awardee
  November 2019
- McNulty Scholar   Spring 2019
- NYC Council Merit Scholar (Fall and Spring)   Sept. 2017-2018
- Full merit scholarship to Macaulay Honors College (4 years)   May 2017

SKILLS:
- Proficient in Autodesk Inventor, Multisim, Ethovision, Python, C++, MATLAB, Graphpad Prism, Microsoft Office
- Familiarity with Mosaic platform for medical records.
- Design Virtual Reality experiments using MATLAB
- Analyze data using MATLAB, Excel (Google/Microsoft), Python, Jupyter Notebooks
- Familiarity with Spanish

RESEARCH EXPERIENCE:

Privacy, Security, and Automation (Greenstadt Lab), New York University   10/1/2020 – Present

Research Volunteer
- Investigate various resources for Reddit datasets containing the spread of misinformation on social media.
- Design Python scripts in Jupyter Notebooks to determine the similarity of writing style between authors.

Natural Language Processing (Artzi Lab), Cornell Tech   06/01/2020 – 08/15/2020

Research Intern
- Collaborated with lab members to study the evolution of language in a coordination task, CerealBar.

- Designed a variety of custom Python scripts to gain insight into trends in a large data set, explore embedding mechanisms, and use cosine similarity to measure change in vector embeddings over time.

Distributed Artificial Intelligence (Raja Lab), Hunter College   03/01/2020 – 05/20/2020
Research Volunteer
- Assisted with the design of an automated refactoring software for machine learning algorithms by reviewing Open Source Natural Language Processing git commit history for potential refactoring locations in code.
- Used Regex in Excel to find keywords in log of git commit history.

Neural Dynamics and Cognition (Rajasethupathy Lab), Rockefeller University   03/01/2018 – 03/01/2020
Research Volunteer
- Conducted Immunohistochemistry staining to explore potential activation of various regions of the brain.
- Designed virtual reality experiment using MATLAB and Arduino boards for animal behavior study that investigates the of motivation on learning and memory.
- Used MATLAB to design scripts to analyze large sets of data from a virtual reality behavioral experiment, quantify GFP+ cells in coronal slices of an Immunohistochemistry slide, track changes in pupil size and movement in a behavioral paradigm.

EMPLOYMENT HISTORY:
Computer Science, Hunter College   01/04/2019 – 12/15/2019
Teaching Assistant
- Provided encouragement and academic support to introductory level students who are studying Python.
- Guided students through tasks by addressing areas of confusion, debugging programs, and explaining content such as: "for loops."

VOLUNTEER EXPERIENCE:
Macaulay Honors College, Hunter College   09/1/2018 – Present
Peer Mentor
- Assist incoming students as they adjust to life as a college student through individual meetings and workshops dealing with registering for classes, pursuing internships and time management.
- Coordinate Macaulay events such as the Winter Party and Interviews of prospective students by collaborating with fellow mentors, Macaulay students and staff.
- Lead workshops on obtaining internships, time management and peer mentor development for mentees and fellow mentors.

Recreation Volunteer, Calvary Medical Center   07/01/2019 – 08/15/2019
Volunteer
- Interact with patients and families in end of life care to improve mood and maintain cognitive abilities through activities like coloring, jewelry-making and crossword puzzles.

Hospitality Volunteer, Maimonides Medical Center
Volunteer
> **Maternity Unit**   07/01/2017 – 02/15/2018
- Provide compassionate assistance to recent mothers by supplying amenities and helping with discharges.
> **Cancer Center**   07/01/2017 – 09/15/2017
- Professionally and diligently assist receptionists by scanning patient forms and updating online charts with Mosaic.