SAMUEL MEYER FRIEDMAN

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EDUCATION

Rutgers University, School of Arts and Sciences Honors Program   **New Brunswick, NJ**
BA in Genetics, Certificate in Computational Genetics, *Summa Cum Laude*   **May 2021**
Courses: Java, Data Structures, Comp. Genetics (R), Bioinformatics (Python)

PROFESSIONAL EXPERIENCE

HUMAN GENETICS INSTITUTE OF NEW JERSEY   **Piscataway, NJ**

Curation Assistant, National Institute of Mental Health Repository & Genomics Resource (NRGR)   **Jun 2021-Present**
- Use Python (Pandas) to curate, harmonize, and validate terabytes of data in a multimillion-dollar genetics repository.
- Build pipelines to scrape XML data from sister repositories and construct inter-repository ID mapping files using Python.
- Develop Python scripts to validate concordance of genetic profiles of 50K+ biosamples with IDs from clinical interviews.
- Assessing sample risk burden for manifestation of psychosis by computing polygenic risk scores using R and Python.
- Digitized and indexed dozens of documents containing confidential information using optical character recognition.

Research Assistant to Linda Brzustowicz, M.D., Distinguished Professor/NRGR Director   **Sep 2018-May 2021**
- Independent Honors thesis project: identified gene associated with increased risk for manifestation of Bipolar Disorder.
- Awarded Henry Rutgers Scholar Award & Department of Genetics Award for Excellence in a Research Presentation to recognize an "outstanding" Honors thesis, and "extraordinary" communication of research project to entire department.
- Developed Python scripts that added additional checks to the quality control process for new NRGR data submissions.

Aresty Summer Science Fellow to Amrik Sahota, Ph.D., Research Professor   **Jun 2018-Aug 2018**
- Began the pre-clinical trial for a novel therapeutic oral treatment for cystinuria, a genetic disorder of L-cystine accumulation and subsequent stone formation that debilitates 1 in 7,000 people worldwide.
- Assessed drug for cardiac, renal, and hepatic toxicity on mice as a model for its metabolic activity in humans using the following methods: PCR, gel-electrophoresis, enzyme-linked immunosorbent assays, spectrophotometry, and Excel.

TENAFLY PSYCHIATRIC ASSOCIATES   **Tenafly, NJ**
Administrative Associate   **(Seasonal) Jun 2017-Jun 2021**
- Used Python to construct insights tool into historical billing data upon entry of parameters such as billing codes used.
- Increased office productivity while decreasing spending by 8% ($43K p.a.) through automation of rote tasks using Python.
- Served as a liaison to facilities, ran payrolls, managed ledgers and QuickBooks, launched HIPAA-compliant server.

EXTRACURRICULAR ACTIVITIES

THE EXAMINER   **New Brunswick, NJ**
Editor-in-Chief & President   **Sep 2019-May 2021**
- Managed and presided over editorial & layout staff and journalists at Rutgers' 60-member science periodical.
- Facilitated and lead discussions on peer-reviewed publications, invited and moderated faculty and guest speakers, and—prior to the pandemic—organized sponsorship and turnout for NYBC blood drives and arranged food service at meetings.
- Tripled the club's funding as treasurer (2018) by advocating for and clarifying the club's missions and new initiatives.

ARESTY RESEARCH CENTER   **New Brunswick, NJ**
Senior Peer Instructor   **Sep 2019-May 2021**
- Developed curriculum, hosted talks & events, and mentored 40 Peer Instructors through the facilitation of seminars on research methods, ethics in research, and scientific communication to over 250 underclassmen Research Assistants.
- Moderated the 17th Annual Summer Science Symposium, in which 200+ individuals were in attendance.

SKILLS

Languages & Software: Python, R, Java, HTML, CSS, Unix scripting, SQL, Git, Excel.
Volunteerism: Coordinator, Yachad, National Jewish Council for Disabilities (Nov 2019-Present).