

SAMUEL M. FRIEDMAN

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EDUCATION

RUTGERS UNIVERSITY, School of Arts and Sciences Honors Program
Bachelor of Arts (B.A.), Genetics, Highest Honors, *Summa Cum Laude*
Certificate, Computational Genetics

New Brunswick, NJ
May 2021

- GPA: 3.93/4.00, top 10%, Phi Beta Kappa, Paul Robeson Scholar.
- Selected to serve on the Honors Program Student Advisory Board to improve the school's engagement with students.
- Awarded **Henry Rutgers Scholar Award & Dept. of Genetics Award for Excellence in a Research Presentation** to recognize an "outstanding" Honors thesis, and "extraordinary" communication of research project to entire department.

PROFESSIONAL EXPERIENCE

HUMAN GENETICS INSTITUTE OF NJ

Piscataway, NJ

Curation Assistant, National Institute of Mental Health Repository & Genomics Resource (NRGR)

June 2021-Current

- Curate, harmonize, validate, and compute (e.g., polygenic risk score) data in a multimillion-dollar genetics repository.
- Develop code to link the IDs and genetic footprints of 50,000+ biosamples to corresponding clinical assessments.
- Digitize and index dozens of documents containing confidential information using optical character recognition.

Undergraduate Research Assistant to Linda Brzustowicz, M.D., Distinguished Professor

September 2018-May 2021

- Developed Python scripts that patched oversights in the repository quality control process for new data submissions.
- Independent Honors thesis project: identified gene associated with increased risk for manifestation of Bipolar Disorder.

Aresty Summer Science Fellow to Amrik Sahota, Ph.D., Research Professor

June 2018-August 2018

- Started the lab's pre-clinical trial on a 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.

TENAFLY PSYCHIATRIC ASSOCIATES

Tenafly, NJ

Administrative Associate

June 2017-June 2021 (Seasonal)

- Designed data-driven optimization reports of billing codes, facilities, and provider performance using Python scripts.
- Increased office productivity while decreasing spending by 8% (\$43K p.a.) through automation of rote tasks using Python.
- Greeted and spoke with patients, facilities, and pharmacies, booked appointments, ran bi-weekly payrolls, managed ledgers and QuickBooks, and launched a HIPAA-compliant server.

EXTRACURRICULAR ACTIVITIES

ARESTY RESEARCH CENTER, Senior Peer Instructor

New Brunswick, NJ

September 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.
- Led the 17th Annual Summer Science Symposium, in which 200+ individuals were in attendance.

THE EXAMINER, Editor-in-Chief & President

New Brunswick, NJ

September 2019-May 2021

- Managed and presided over editorial & layout staff and journalists at Rutgers' 60-member science periodical.
- Facilitated and lead group discussions on peer-reviewed publications, brought in faculty and guest speakers, and—prior to the pandemic—organized sponsorship and turnout for NYBC blood drives and arranged for food service at meetings.
- As treasurer (2018), tripled club's funding by advocating for and clarifying the club's missions and new initiatives.

FIRST-YEAR INTEREST GROUP SEMINARS, Peer Instructor

New Brunswick, NJ

April 2019-December 2019

- Developed and taught an original curriculum for a 10-week university accredited 1-credit seminar.
- Introduced 25 first-year students to the sciences while mentoring them and helping them get acclimated to college.

SKILLS, CERTIFICATIONS, AND INTERESTS

Langs. & Tools: Python (Pandas, Numpy, Scikit-Learn), R (Tidyverse, Ggplot2), Java, HTML/CSS, Unix scripting, SQL, Git, Excel.

Dry & Wet Lab: GWAS (PLINK), polygenic risk scoring, RNA-seq, DNA/RNA extraction, electrophoresis, PCR, ELISA.

Certifications: State of NJ Notary Public (com. #: 50066973); Adult & pediatric first aid/CPR/AED, Red Cross (ID: 13K8TA).

Volunteerism: Coordinator, Yachad, National Jewish Council for Disabilities (2019-Present).

Hobbies: Reading (<https://bookshelf.website/samfriedman>), coding, guitar, chess, hiking, volleyball, writing.