

**Current Mailing Address:**

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**Manan S. Pancholy (he/him)**

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**Permanent Address:**

584 Epirus Hill Road  
Clarks Summit, PA 18411

**Education**

Brown University

Cumulative GPA: 3.93

Providence, RI

May 2027

- Concentration (Major): Artificial Intelligence in Health Informatics, ScB.

**Research**

Pancholy MS, Payne M, Patel AT, et al. Factors Affecting Image Resolution in a Modern Angiographic Suite: A Phantom-Based Study. *Cardiovasc Res* Med. 2022;43:55-59. doi:10.1016/j.carrev.2022.05.031

Pancholy MS, Dudzinski DM. Ambient Listening Artificial Intelligence: Technology and Liability Implications. Lecture presented at: American College of Cardiology Medical Professionals Liability Insurance Work Group Meeting; 2024 Nov 15; Virtual.

Student Researcher at Rhode Island Hospital (4/2024 -) and Brown Center for Biomedical Informatics (8/2024 -)

- Building a multimodal neural network for point-of-care insight into acute coronary syndrome
- Assessing social and lifestyle determinants of mental health disorders across race cohorts in the NIH's All Of Us database using machine learning

**Awards & Honors:**

Coca-Cola Scholarship Semifinalist

2022

Presidential Volunteer Service Award (PVSA), *GOLD Award*

2020-2022, 2025

Sigma Xi Research Honors Society Associate Membership

2022-

**Leadership & Service:**

National American Association of Physicians of Indian Origin (AAPI) - *Premedical Students Section* - President ('24-'25) and President-Elect ('23-'24)

- Providing Indian premedical students with free Kaplan, UWorld, & Blueprint MCAT resources & seminars
- Establishing nationwide physician & research networks for premedical students through annual Medical Scholars Summit with 200+ attendees

*Umeed* - Fundraising Chair ('24-'26), Member at Large ('23-)

- Raised over \$3,000 for low-income cancer patients in West Africa, India, Pakistan
- Organized fundraising concert & performed in Brown's largest auditorium with 10 performing groups and 100+ audience members

*Brown Barsaat* - Musical Director (Fall '24-'25), Assistant Musical Director (Spring '24), Vocalist (Fall '23-)

- Arranging & performing original pieces for Brown's premier South Asian fusion A Capella group

*Camp Create* - Counselor & Intern ('18-'23)

- Mentoring 20+ children with intellectual and developmental disabilities yearly in producing & performing original play from donated materials

**Clinical Experiences:**

*Express Urgent Care* - Triage, Medical Translator, Check-In Clerk, Customer Service - 100+ hours volunteering ('23-'24)

*Observership* - 80+ hours observing primary care, CT surgery, interventional & general cardiology, ophthalmology, radiation oncology ('19-'23)

**Technical Skills:**

**Languages:** Python, Julia, R, Stata, Java, SQL, HTML, CSS, JavaScript

**Ontologies:** ICD, OMOP, UMLS, SNOMED, LOINC

**Libraries:** Tensorflow, PyTorch, PyTorch Geometric, Transformers, RDKit, SciKitLearn, Numpy

**Developer Tools:** VS Code, GitHub

*Machine & Deep Learning (Python, R, & Julia)*

- Used GNN and MLP models to predict epistatic (gene-gene) interactions from GWAS genes
- Compared XG Boost and GLM model performance on predicting AFib diagnosis from associated risk factors using synthetic EHR data in Julia

*Biomedical Informatics Coursework (BIOL 1555, 1565, 1575)*

- Teaching Assistant for BIOL 1555 (Methods in Biomedical Informatics) taught by Drs. Neil Sarkar and Elizabeth Chen

*Biostatistics (Stata & SPSS)*

- Learned & practiced techniques in large database analysis (NIS/NRD), matrix completion, survival analysis, etc in Stata
- Utilized SPSS for statistical analysis in endovascular imaging research

*Data Structures & Algorithms (Java, Python)*

- Learned & implemented data structures & algorithms in Java and Python (hashmaps, DataFrames, decision trees, graphs) through CS coursework

**Additional Information**

*Music:* Hindustani Classical Music (13 years vocal & harmonium performance), A Capella - Barsaat (Musical Director), Shades of Brown

*Clubs:* Healthcare Advancement Journal (Editor), Medical Entrepreneurship Society, Quantum Computing Club, Hindu Satsanga

*Certifications:* HSP, GCP, COI, IRB (CITI), Advanced Catalyst Workshop, Generative AI: Impacts, Considerations, and Ethical Issues (IBM)

*Interests:* Cooking, beatboxing, landscape photography, *Tuesdays with Morrie*, hiking, Men's fashion, Studio Ghibli, linguistic philosophy, breakfast tacos