

Joyti Nath

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EDUCATION

Columbia University of New York

Bachelor of Arts, Biology and Public Health & Business Concentration

May 2028

Manhattan, NY

- **GPA:** 3.93/4.00, Dean's List (4 Semesters)
- **Relevant Coursework:** Principles of Economics, Calculus-Based Statistics, Regulation of Behaviors for Survival, Organic Chemistry, Biostatistics, Public Health Frameworks, Business Strategy
- **Leadership & Clubs:** Biotech Society (Commercial & Strategy Lead), Undergraduate Science Journal (Editor)

R&D EXPERIENCE

Berkeley Pharma Tech

Medical Research Intern

August 2026 - Present

Remote

- Execute a targeted PubMed literature review analyzing **60+** primary research studies involving **1200+** pages on spatial transcriptomics and spatial proteomics in cancer diagnosis, prognosis, and therapeutic resistance
- Synthesize complex findings into comparative research matrices evaluating experimental methods, sample sizes, and clinical feasibility across lung, breast, and pancreatic cancers
- Collaborate with an interdisciplinary student-scientist team to compile structured research deliverables connecting cellular pathways with potential therapeutic targets, presenting to the CEO and **15+** fellow undergraduates weekly
- Evaluate how preliminary experimental data translates into viable product development concepts, coordinating with the business team

Columbia's Zuckerman Institute

Research Fellow

May 2026 - August 2026

Manhattan, NY

- Conducted behavioral/walking assays on *Drosophila* models to evaluate how targeted genetic disruptions impact motor control and locomotor pathways and monitoring ventral nerve cord (spine) molecular structures with confocal microscopy and antibody staining.
- Managed daily organism care, strain preparation, experimental setup, and standardized quantitative data logging across testing cycles
- Troubleshooted test assay parameters and instrumentation anomalies to ensure reproducibility and data integrity
- Synthesized **300+** flies' raw behavioral and quantitative data into structured summaries for lab meeting reviews

Columbia University Irving Medical Center, Dept. of Neurology

Clinical Research Fellow

May 2025 - Present

Manhattan, NY

- Analyze healthcare datasets across **1,200+** profile records to identify care delivery gaps and resource allocation trends
- Evaluate system-wide inefficiencies through tracking models in Excel to assess equity in healthcare, presenting findings to clinical leadership to drive process improvements, on track to 2027 first-author manuscript on South Asian Parkinson's disparities

Weill Cornell Medicine, Englander Institute for Precision Medicine

Research Intern

June 2024 - August 2024

Manhattan, NY

- Executed 150+ hours of modeling using MATLAB and R, evaluating complex datasets
- Distilled complex analytical outputs into clean, executive-ready presentations for **45+** institutional stakeholders

OPERATIONS & LEADERSHIP EXPERIENCE

Healthcare Shares

Venture Capital Intern

June 2026 - Present

Manhattan, NY

- Evaluate technical feasibility, R&D progress, and clinical applicability for **40+** early-stage medical device, digital health, and life science companies, acting as an advocate for continuous improvement (**up to 25%**) in communication and outreach processes
- Perform competitive benchmarking and scientific literature validation to compile due diligence reports for prospective healthcare investments to ensure company diligence and proper landscape assessments

Queen Centers for Hope, Columbia Chapter

Co-Founder and Vice President of Global Partnerships

August 2025 - Present

Rutenga, Zimbabwe & Manhattan, NY

- Coordinate cross-functional project milestones and resource allocation across 2 international hubs to accelerate initiatives by **35%**
- Draft technical status reports and communicate operational progress to internal leads and external program partners

CERTIFICATIONS, SKILLS & INTERESTS

- **Biological & Lab Techniques:** Model Organism Handling (*Drosophila melanogaster*), Behavioral & Locomotor Phenotyping Assays, Test Method Troubleshooting, Experimental Data Logging, Primary PubMed Triage, Literature Synthesis & Matrix Construction, Spatial Transcriptomics/Proteomics Analysis Concepts
- **Data Analysis & Software:** Advanced Microsoft Excel (Data Validation, Pivot Tables, Formulas), Power BI, R Programming, Python, MATLAB, Google Workspace, Google Analytics
- **R&D Competencies:** Experimental Design, Data Integrity & Quality Control, Cross-Functional Teamwork, Technical Documentation, Root-Cause Analysis