

SAMEER IYER

+1 (555) 555-5555 | email@seas.upenn.edu | https://www.linkedin.com/in/

EDUCATION

- University of Pennsylvania, PhD in Chemical and Biomolecular Engineering** *Sept 20xx – Present*
- Conducting research on the design and microfabrication of microfluidic devices to enable high-throughput discovery and scalable manufacturing of precision microparticles for biologically relevant systems. (1st author journal paper in prep)
 - Developed anisotropic granular hydrogel microparticles that reduced myocardial infarction size by >30% in murine models, resulting in a 2nd-author contribution for publication in *Science Advances* (Impact Factor: 15.6)
 - Awarded Soft NRT AE Fellowship (>\$60K NSF research award) for thesis work related to using AI to generate novel materials.
- University of California, Berkeley, S.M. in Chemical Engineering Practice, GPA: 4.6/5.0** *Sept 20xx – Sept 20xx*
- Fully funded via fellowship (~150K funding)
- University of Pittsburgh, B.S. in Chemical Engineering, GPA: 3.96/4.0** *Sept 20xx – May 20xx*
- Honors: *magna cum laude*, **Honors college graduate (~2% of student body)**, President's Freshman Award, President's Sparks Award, Evan Pugh's Junior (~0.5% student body), Whitfield Student Internship

RELEVANT EXPERIENCE

Penn Biotech Group

Project Director:

Jan 20xx – Present

- Spearheaded client-facing engagement, project scoping, aligning deliverables, and managing communication across two 10+ member consulting teams and client stakeholders (>\$100M research institute, and pre-series A startup).

Project Manager:

Sept 20xx – Dec 20xx

- Directed a 10-member team to develop a market-entry strategy for a novel pharmaceutical platform, prioritizing 10+ disease indications and performing a multifaceted evaluation of ~40 nanoparticle companies, enabling a \$200M research institute to target partnership and commercialization opportunities in a ~\$10B market.

Consultant Team Member (large pharmaceutical company):

Jan 20xx – May 20xx

- Identified and shortlisted 10+ affinity ligand scaffolds for targeted protein purification from plasma, informing ligand selection strategy for a ~\$15B biotechnology company seeking to improve separation efficiency in a ~\$10-15B market.

Consultant Team Member (biomolecule preservation start-up):

Jan 20xx – May 20xx

- Conducted a comprehensive landscape analysis with a 6-member cross-functional team, identifying ~90 industry KOLs (personally sourced ~40), to inform a go-to-market strategy for entry into a ~\$10B biomolecule preservation market.

Bioengineer, ElevateBio

Nov 20xx – Aug 20xx

- Re-designed the device/product architecture, increasing production yield 10x and reducing material usage by ~90%, significantly lowering manufacturing and R&D costs by ~\$45K monthly, enabling ElevateBio's investment in acquiring new IP related to mechanoporation.

Technical Consultant, Novartis

July 20xx – Sept 20xx

- Developed an NLP-driven analytics platform that automated variable extraction and trend analysis of past internal scientific reports, cutting analysis time by >95% and enabling rapid identification of high-impact downstream process drivers.
- Led a 3-member team to design and simulate various configurations of viral inactivation columns, achieving >5log viral reduction and addressing a key bottleneck in end-to-end continuous downstream processing; work informed Novartis' decision to launch a new division to experimentally validate and implement the designs.

Technical Consultant, Halliburton

June 20xx – July 20xx

- Led a 3-member team to conduct a technical evaluation of the biogas market and current technologies used in biogas upgrading, with the end goal of developing a competitive market entry strategy and determining SLB's value proposition in the California biogas market.

LEADERSHIP

Board Member, Lab Operations Committee

September 20xx – Present

- Overhauled the lab onboarding program for new researchers, consolidating training materials and safety protocols, accelerating ramp-up time, and improving consistency in experimental practices.

Chemical Engineering Graduate Association Co-President at UPenn

Sept 20xx – May 20xx

- Coordinated with the graduate office to organize and create monthly events with a ~\$1500 budget, in addition to planning separate recruitment events for incoming CBE PhD students on a budget of ~\$10,000. Handled all tasks related to event planning and executing outside of booking hotel rooms, resulting in a 30% increase in student matriculation in 2023.

Summer Research Experience for Undergraduates (REU) Mentor

May 20xx – Sept 20xx

- Facilitated two REU students' education in experimental design, presenting scientific findings at a conference, in addition to the technical skills necessary for microfluidics research.

INTERESTS

- Dancing (hip-hop), painting (digital and watercolors/inks), cooking, video games (Overwatch, Destiny 2)