

Namit D. Padgaonkar

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EDUCATION

University of Michigan, Ann Arbor, MI

May 2024

Bachelor of Science in Biomedical Engineering

Current GPA: 3.94/4.00

Coursework Highlights: Introduction to Tissue Engineering; Biomedical Engineering Design; Quantitative Physiology; Quantitative Cell Biology; Design and Applications of Biomaterials; Biomedical Instrumentation and Design

WORK EXPERIENCE

Research Assistant I, Shea Lab

May 2022 - Present

- Helped investigate the generation and transplantation of stem-cell derived β -cells on microporous scaffolds, using anti-sense oligonucleotides (ASOs) conjugated to nanoparticles to reduce inflammation at sites of injury
- Prepared a poster presentation on the effectiveness of nanoparticles that reprogram inflammatory macrophages using ASOs conjugated to nanoparticles for the 2023 Biomedical Engineering Society Annual Meeting and the 2023 Biomedical Engineering Symposium at U-M

BME 458 Instructional Aide, University of Michigan

August 2023 – Present

- Taught a laboratory section of 24 students to acquire, generate, and display biopotential signals in the Biomedical Instrumentation and Design course, helping to troubleshoot hardware and software issues
- Graded pre-lab assignments, laboratory notebooks, and lab reports to assess students' understanding

LEADERSHIP EXPERIENCE

Director of Fundraising & Director of Project Research, Project RISHI

July 2022 - Present

- Participated in a 5-month social innovation challenge through optiMize at the University of Michigan and raised \$10,000 for the construction of a sanitation facility to address open defecation in Seithur, TN, India
- Organized and led fundraising efforts to support a Residential Skill Development Training Center for 5th-12th grade male students who are academically, socially, and economically underprivileged in Tirunelveli, TN, India in the following areas: digital literacy, designated study spaces, and extracurricular involvement
- Oversaw research on the most pressing problem of our community partner in Seithur, TN, India, including evaluating potential solutions and breaking down costs

Team Lead, Team Flow, University of Michigan

January 2023 - Present

- Led development of a high-fidelity prototype of an IV drip rate monitor using breadboarding and Arduino, managed and delegated all technical and branding work, and developed connections with all team members
- Organized an updated needs assessment trip to the Komfo Anokye Teaching Hospital in Kumasi, Ghana to assess needs and challenges in current fluid administration procedures and led fundraising of over \$10,000
- Further developed relationships with faculty mentor Dr. James Weiland and community partner Emmanuel Acheampong and organized regular check-in meetings

Secretary, MI-G Tau Beta Pi

April 2023 – Present

- Served as the main point of contact between the MI-G chapter of the Tau Beta Pi and the national Tau Beta Pi Association, ensuring all members elected to the chapter are recognized by the National Association
- Took meeting minutes at chapter-wide and leadership meetings, made them available to the active membership of the chapter, and determined points of organizational improvement for the chapter

ACCOMPLISHMENTS

4-Term James B. Angell Scholar, University of Michigan, Winter 2024

College of Engineering Dean's Honor List, University of Michigan, Fall 2020 - Winter 2023

University Honors Designation, University of Michigan, Fall 2020 - Winter 2023

3-Term James B. Angell Scholar, University of Michigan, Winter 2022

William J. Branstrom Freshman Prize, University of Michigan, Fall 2020