

Piush Sarkar Resume

sarkarp@umich.edu

Education

UNIVERSITY OF MICHIGAN, ANN ARBOR, MI (2020-PRESENT)

Planned Major - Biomedical Engineering
Expected graduation - May 2024
GPA - 3.906

GLEN ROCK HIGH SCHOOL, GLEN ROCK, NJ (2016-2020)

Clinical Experience

TRANSFORMING CARE AT THE BEDSIDE, HACKENSACK, NJ - VOLUNTEER (2021)

- Supported Rounding on Acute Care for Elders Unit

HACKENSACK MERIDIAN HOSPITAL ELDER LIFE PROGRAM, HACKENSACK, NJ - VOLUNTEER (2016-2020)

- Prevented delirium in elderly hospital patients through daily patient visits, therapeutic games, exercise

Presentations and Publications

Sarkar P, Alnassar I, Mancia L, Siegel G.W. Focused Ultrasound for Appendicular Soft-Tissue Sarcomas: Three Dimensional Targetability Assessment. Poster presented at: *2021 Winter University of Michigan Engineering Research Symposium*; February 2021; Virtual.

Sarkar Piush, Sarkar Prottusha, Sarkar A. Are There Any Correlations Between Caregiver Demographics and Caregiver Burden in Dementia?. Poster presented at: *American Geriatrics Society Annual Scientific Meeting 2021*; May 2021; Virtual

Research Experience

UNIVERSITY OF MICHIGAN SYSTEMS BIOLOGY OF HUMAN DISEASES LABORATORY (2021-PRESENT)

- Cultured and maintained multiple strains of cancer cells, measured gene expression through protein gel electrophoresis and RNA PCR, and induced gene expression in bacteria via transformation

UNIVERSITY OF MICHIGAN LABORATORY OF CELLULAR AND MOLECULAR SYSTEMS (2022-PRESENT)

- Fabricated and used PDMS microfluidic devices, cultured, maintained, and transfected cells, assisted in the generation of synthetic cells
- Assisted in coordination and running of an outreach event with the Detroit Area Pre-College Engineering Program

Honors and Accomplishments

UNIVERSITY OF MICHIGAN DEAN'S HONOR LIST

- Fall 2020, 2021
- Winter 2021, 2022

MEDICAL COLLEGE ADMISSIONS TEST

- Scored a 525, 100th percentile

Leadership

SCIENCE LEARNING CENTER STUDY GROUP FACILITATOR COURSE LEADER (2021-PRESENT)

- Facilitated a study group for Calculus II and Organic Chemistry I at University of Michigan
- Assists in Coordinating, guiding, and managing the Calculus II study group program

UNIVERSITY SKATEBOARD COLLECTIVE TREASURER (2021-PRESENT)

- Managed finances and inventory as well as collaborated with local businesses for events