

Chaceun “Evelyn” Lee

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EDUCATION

University of Michigan Ann Arbor, MI, USA

September 2022-April 2025

Bachelor of Science in Engineering in Biomedical Engineering and Bachelor of Science in Mathematics

Concentration: Neural engineering and honors math track

GPA: 3.963 (BME GPA: 4.0)

Course works: Introduction to Biochemistry, Circuits and Systems, and Introduction to Biomechanics

Graduate course works: Probability theory, Applied nonlinear dynamics, and machine learning and signal processing in biomedical engineering

Bard College at Simon’s Rock Great Barrington, MA, USA

September 2020-May 2022

Associate in Arts with Distinction

GPA: 3.98/4.00

RESEARCH EXPERIENCE

University of Michigan Ann Arbor, MI, USA

Opri Lab Undergraduate Researcher

Present since November 2022

- Working on finding a pattern in thalamocortical phase-amplitude coupling using MATLAB
- Working on developing a hardware interface during deep brain stimulation (DBS) procedure for signal control and data collection for research using C++ and a single board computer
- Designed printed circuit board (PCB) using Fusion 360, and helped creating connecting cables needed in DBS surgery
- Shadowed DBS surgery

Bard College at Simon’s Rock Great Barrington, MA, USA

C. elegans Locomotion Project Research Intern

March 2020-July 2022

- Designed a mathematical model (Markov chain) that controls the locomotion of the computational worm that the team is working on under Professor Harold Hastings
- Presented the results at the American Physical Society (APS) March meeting 2022

ACTIVITIES

University of Michigan

M-Heal

Service Abroad and Needs Assessment (SANA) team

Present since September 2022

- Team director for 2023-24 academic year
- Traveled to Ecuador in the spring break (February 2023) to survey healthcare needs in Ecuador and to initiate partnership and project
- Observe and volunteer at hospitals, interview doctors, and engage in cultural activities

MedLaunch

We-AR-Fit team

September 2022-May 2023

- Designed a mobile application and website using Augmented Reality (AR) technology to help fitness training for local children with autism spectrum disorder
- Contributed on the backend side of the team and successfully negotiated with Lightbuzz to get a body tracking software development kit license

SKILLS

Computer: C++, Python, Fusion 360, LabVIEW, MATLAB, Soldering, and BCI2000

Certifications: Advanced Water Scuba Diving