

Conifer Lu

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Objective

A Biomedical Engineering major junior student looking for summer research in the imaging field.

Education

Case Western Reserve University - Cleveland, OH

B.S. Major in Biomedical Engineering and Electrical Engineering

Expected **May 2024**

- GPA 3.7/4.0
- Minor in Computer Science and Japanese
- Dean's honors (Fall 2020 - Spring 2021)
- Dean's high honors (Fall 2021, Fall 2022)
- Relevant coursework: Biomedical Signal and System, Biomedical Imaging

Skills

- Technical: Java, MATLAB, Python
- Language: Native in Chinese, Fluent in English, and Conversational in Japanese

Research Experience

Department of Biomedical Engineering, Case Western Reserve University - Cleveland, Ohio

Automatic Skull Stripping for Mouse

June 2022 – Present

- Developing and optimizing an algorithm to automatically strip the mouse skull out of the image using machine learning network
- Evaluating and accessing the efficiency of the algorithm

Department of Biomedical Engineering, Case Western Reserve University - Cleveland, Ohio

Animal cradle design and making for Preclinical 9.4T MRI System

September 2022 – Present

- Designed cradle using CAD software, and fabricated cradle by executing laser cutting to minimize the effect of vibration on the image quality
- Worked with the professor and led other research assistants to design cradles suitable for preclinical mouse scanning

Professional & Leadership Experience

Department of Electrical Engineering, Case Western Reserve University - Cleveland, OH

Teaching Assistant and Grader

January 2022 – Present

- Instructed peer undergraduate students in circuit design and debugging
- Designed lab final exam to test peer undergraduate student's proficiency in circuits measurements
- Collaborated with other teaching assistants to improve lab design
- Graded peer undergraduate students' homework

Volunteer Experience

Xi'an Jiaotong University, China Student Association - Xi'an, China

The organizer of Charity Running

October 2021

- Organized fundraiser event and joined peer students in raising money for children in poverty in a rural area of China