

Hongfei Luo

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EDUCATION

- **The Hong Kong University of Science and Technology** Hong Kong SAR
Bachelor of Science in Mathematics; Minor in Biological Science Sept 2022 – Present
- **Lehigh University** Bethlehem, PA, USA
Exchange Program Jan 2025 – May 2025
- Major Courses: Random Processes and Applications, Statistical Models in Data Science

RESEARCH EXPERIENCE

- **Computational Uncertainty Lab, Lehigh University** Bethlehem, PA, USA
Undergraduate Research Assistant Jan 2025 – Present
 - Assisted in developing a responsive web application in Python for visualizing Influenza-like Illness (ILI) and hospitalization data in the U.S.
 - Collaborated with another student to forecast the trajectory of infectious diseases by fitting statistical models to observed ILI and hospitalization data.
 - Programmed interactive data visualizations to display trends and comparisons.
- **The Hong Kong University of Science and Technology** Remote
Undergraduate Research Assistant June 2024 – Aug 2024
 - Applied Eye Movement analysis with Hidden Markov Models (EMHMM) to actigraphy data to study individual variance in circadian rhythms.
 - Implemented new MATLAB functions for one- and two-dimensional data visualization.
 - Identified key patterns and transitions in physical activity states using EMHMM.

AWARDS AND QUALIFICATIONS

- Dean's List Spring 2022-23
- University Admission Scholarship (renewable for normative duration of study)

SKILLS

- **Technical:** Python, R
- **Languages:** Mandarin (Native), English (Fluent)