

# Hongfei Luo

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## EDUCATION

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- **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

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- **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

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

## SKILLS

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