

# MENGYANG LIU

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🔗 <https://github.com/Mengyang-Liu6666>

## EDUCATION

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**UC San Diego, La Jolla, California, United States**

*Sep. 2024 -*

Program: Master of Computer Science

**Queen's University, Kingston, Ontario, Canada**

*Sep. 2020 - Apr. 2024*

Program: Bachelor of Computer Science (Hons.)

Specialization: Computing and Mathematics

CGPA: 4.28 / 4.3

Courses:

Computing: Data Structures (A+), Algorithms (A+), Artificial Intelligence (A+),  
Reinforcement Learning (A+), Ethics in Computing (A+), Undergraduate Thesis (A+)

Statistics: Statistical Learning (A+), Bayesian Analysis (A+), Stochastic Processes (A+),  
Statistical Inferences (grad level) (A+), Asymptotic Statistics (grad level) (A+)

Mathematics: Graph Theory (A+), Information Theory (A+), Stochastic Control (A+)

## RESEARCH EXPERIENCE

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**Robotic Arm Pick-and-Place with Deep RL (Undergraduate Thesis)**

*Sep. 2023 - Apr. 2024*

- Supervised by Prof. Sidney Givigi, to complete robotic arm pick-and-place and deployed on a real robotic arm.
- Designed and constructed my own training environment (available in my *Github repo*).
- Ran experiments on different reward functions and RL algorithms.
- Self-studied Deep Reinforcement Learning (DRL) concepts online from *CS 285 at UC Berkeley*.

**Treatment Effect Estimation Under Covariate Adaptive Designs**

*May. 2023 - Aug. 2023*

- Supervised by Prof. Yanglei Song, funded by Department Undergraduate Summer Research Award (USRA).
- Investigated the efficacy of study in seamless phase II/III clinical trials for cancer research
- Conduct literature review, self-study and discuss with the supervisor weekly.
- Solved a mathematical problem that is raised by a practitioner.

## WORK EXPERIENCE

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**Teaching Assistant**

*Jan. 2023 - Apr. 2023*

- Course: CISC 352 Artificial Intelligence, Winter 2023
- Set up assignments for students to complete and auto-graders for convenient grading.
- Interacted with students regularly to answer queries via email, forum and office hours.

## AWARD

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**Medal in Computing and Mathematics**

*Jun. 2024*

- A medal is awarded annually by the university to the candidate who is graduating and achieved the highest standing in a plan offered by the department.
- Only one candidate is nominated for a medal.

**Wm. Roy Hardick Scholarship**

*Aug. 2023*

- Awarded on the basis of academic excellence, to an undergraduate student entering 4th year with a concentration in Mathematics and Statistics.
- The scholarship is exclusively awarded to one student each year in the Faculty of Art and Science.