

# Changling Li

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“And now I see with eye serene, the very pulse of the machine.” – William Wordsworth

## EDUCATION BACKGROUND

<b>ETH Zurich, Switzerland</b> <i>Master of Science in Computer Science, MSc</i> <ul style="list-style-type: none"><li>Grade: <b>5.35/6</b></li><li>Major: Machine Intelligence; Minor: Theoretical Computer science</li></ul>	09/2022 – Present
<b>Colby College, United States</b> <i>Bachelor of Arts, Physics and Computer Science with Honors</i> <ul style="list-style-type: none"><li>GPA: <b>3.99/4</b></li><li>Awards and Honors: Distinction in both majors; Magna Cum Laude; Phi Beta Kappa; Sigma Pi Sigma; UWC Davis Scholar; Dean's List F'18, S'19, F'19, F'21 (2020 and S'21 - cancelled due to COVID-19)</li></ul>	09/2018 – 05/2022
<b>Li Po Chun United World College, Hong Kong</b> <i>International Baccalaureate Bilingual Diploma : 41/45</i>	09/2016 – 06/2018

## PUBLICATION

- Choi Younwoo\*, **Changling Li\***, Yongjin Yang, and Zhijing Jin. "Agent-to-Agent Theory of Mind: Testing Interlocutor Awareness among Large Language Models." arXiv preprint arXiv:2506.22957. (Under Review)
- Changling Li**, Ying Li, "Scaling up Energy-Aware Multi-Agent Reinforcement Learning for Mission-Oriented Drone Networks with Individual Reward." IEEE Internet of Things Journal (2024).
- Changling Li**, Zhang-Wei Hong, Pulkit Agrawal, Divyansh Garg, and Joni Pajarinen. "ROER: Regularized Optimal Experience Replay." Reinforcement Learning Journal, vol. 4, 2024, pp. 1598–1618.
- Ying Li, **Changling Li**, Jiyao Chen, and Christine Roinou. "Energy-aware multi-agent reinforcement learning for collaborative execution in mission-oriented drone networks." In 2022 International Conference on Computer Communications and Networks (ICCCN), pp. 1–9. IEEE, 2022.

## SELECTED RESEARCH EXPERIENCE

<b>Evaluating LLM Interlocutor Awareness</b> <i>Supervisor: Zhijing Jin, ETH Zurich</i> <ul style="list-style-type: none"><li>Designed evaluation framework and behavior adaptation case studies.</li><li>Implemented API-based multi-LLM system interaction.</li></ul>	05/2025 – 07/2025
<b>Regularized Optimal Experience Replay for Deep Reinforcement Learning</b> <i>Supervisor: Zhang-Wei Hong &amp; Prof. Pulkit Agrawal, Massachusetts Institute of Technology, Aalto University</i> <ul style="list-style-type: none"><li>Derived the theoretical formulation involving occupancy optimization and Lagrangian duality.</li><li><a href="#">Implemented</a> JAX-based Soft Actor-Critic RL with proposed experience replay formulation.</li><li>Ran Large scale evaluation using MuJoCo and DM Control.</li></ul>	08/2023 – 04/2024
<b>Towards an Ethical Framework to Resolve Conflicts in Multi-Agent Systems</b> <i>Supervisor: Prof. Stacy A. Doore, Colby College</i> <ul style="list-style-type: none"><li>Surveyed related literature in both machine learning and ethical theories.</li><li>Proposed a framework for conflict resolution in multi-agent systems using ethical theories.</li><li>Created a simulation case of a smart city for evaluating the framework.</li></ul>	02/2022 – 08/2022
<b>Multi-Agent reinforcement learning for mission-oriented Drone Networks</b> <i>Supervisor: Prof. Ying Li, Colby College</i> <ul style="list-style-type: none"><li>Created an OpenAI gym based drone networks simulation environment.</li><li><a href="#">Implemented</a> Pytorch-based DQN MARL for credit assignment exploration.</li></ul>	01/2021 – 02/2022

## TEACHING EXPERIENCE

<b>Department of Computer Science, Colby College</b> <i>Teaching Assistant</i> <ul style="list-style-type: none"><li>Courses include: CS 353 Interactive System; CS 251 Data Analysis and Visualization; CS 231 Data Structure and Algorithm; CS 152 Computational Thinking: Science; CS 151 Computational Thinking: Visual Media.</li></ul>	09/2019 – 05/2022
<b>Department of Physics and Astronomy, Colby College</b> <i>Teaching Assistant</i> <ul style="list-style-type: none"><li>Courses include: PH 241 Modern Physics I; PH 242 Modern Physics II.</li></ul>	09/2019 – 05/2021

## EXTRACURRICULAR SERVICE

3D Printer Instructor at WatervilleCreates!	09/2021 – 05/2022
Co-leader and Logistician for The Bridge (LGBTQIA+) Club at Colby College	02/2019 – 09/2021
Co-leader and Data Analyst for Coral Monitoring at Li Po Chun UWC	09/2016 – 06/2018