Changling Li

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Peter-Debye-Weg 13 8049, Zurich, Switzerland

EDUCATION BACKGROUND

ETH Zurich Expected 09/2022 – 06/2024
Master of Science in Computer Science, MSc

Colby College 09/2018 – 05/2022
Bachelor of Arts, Physics and Computer Science with Honors
- Overall GPA: **3.99**/4
- 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)

PUBLICATIONS & POSTERS

3. **C. Li**, Y. Li, "Multi-Agent Reinforcement Learning for Mission-Oriented Drone Networks: Individual Reward vs Shared Reward," (Under Review of Autonomous Agents and Multi-Agent Systems Journal).
2. Y. Li, **C. Li**, J. Chen, and C. Roinou, "Energy-aware multi-agent reinforcement learning for collaborative execution in mission-oriented drone networks," IEEE International Conference on Computer Communications and Networks, 2022.
1. **C. Li**, J. Chen, Y. Li, "Reinforcement Learning for Energy-Efficient Trajectory Planning of Drone Networks," Poster Presentation, 2021 Colby College Undergraduate Research Retreat.

RESEARCH EXPERIENCES

A framework for TD-error based prioritized experience replay
Supervisor: Zhang-Wei Hong, Prof. Pulkit Agrawal 06/2023 – Present

Multi-Agent reinforcement learning for collaborative task execution in mission-oriented Drone Networks
Supervisor: Prof. Ying Li 01/2021 – 02/2022
- Created scalable simulation environment for drone networks.
- Created DQN network with both shared reward and individual reward for study of credit assignment.
- Presented academic poster at 2021 Colby College Undergraduate Research Retreat.
- Conference paper is accepted to ICCCN and is presented in July 2022.

Incorporate AI in Art Creation: Random Drawing Generation with Recurrent Neural Network
Supervisor: Prof. Hannen Wolfe 01/2020 – 05/2021
- Created core workflow for data processing and visualization to investigate the correlation between eye focusing and drawing.
- Modified LSTM neural network and implemented poly-simplification algorithm to improve training efficiency.
- This project will be employed as a teaching tool in Colby College Art Department.

TEACHING EXPERIENCES

Department of Computer Science, Colby College 09/2019 – 05/2022
Teaching Assistant
- 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.

Department of Physics and Astronomy, Colby College 09/2019 – 05/2021
Teaching Assistant
- Courses include: PH 241 Modern Physics I; PH 242 Modern Physics II.

SERVICES

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