

Curriculum Vitae

Personal Details

Name Alice THORNTON
Date of Birth 15/09/1998
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Education

09/2023 – present **Imperial College London - MSc Artificial Intelligence**
Core: Machine Learning, Computer Vision
Relevant modules: Deep Reinforcement Learning, Generative Models

01/2025 – present **MIT CSAIL** - Cambridge, MA
Visiting researcher in the Interactive Robotics Group with Prof. Julie Shah

09/2017 – 06/2021 **University of Edinburgh - BEng Computer Engineering**
Core: Embedded Systems, Control Theory

Experience

01/2025 – present **Master's Thesis** - Multi-Agent Coordination for Urban Drone Delivery

- Implementation of a decentralised planning system
- Simulation and validation using ROS2 and Gazebo
- Optimisation with graph neural networks

06/2024 – 09/2024 **Summer Research Project at OpenAI** - Natural Language Control Interfaces

- Trained Transformer-based models for robotic command interpretation
- Built interactive Python web app for testing control logic

06/2022 – 08/2022 **Internship** - Software Engineering Intern at DeepMind - London

- Built internal tool for data visualisation using Dash
- Contributed to reinforcement learning environment development

03/2021 – 06/2021 **Bachelor Thesis** - Edge-Based Fault Detection in Industrial Motors

- Collected and labelled vibration and current datasets
- Implemented fault classifiers using SVMs and CNNs

Publications

2025 **Thornton, A., Shah, J. - Learning Decentralised Policies for Multi-Agent Drone Coordination in Urban Environments**
Proceedings of the IEEE International Conference on Robotics and Automation (ICRA), 2025

Languages

| | |
|---------|--------|
| English | Native |
| Spanish | B2 |
| German | B1 |

Programming Languages

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|------------|--|
| Python | Extensive experience (academia, internships) |
| C++ | Intermediate (control software, simulation) |
| JavaScript | Frontend tools and dashboards |