

EDUCATION

The University of Edinburgh , Edinburgh, Scotland <i>PhD Robotics and Autonomous Systems</i>	2022-2026
Stanford University , California, USA <i>NDO Graduate Studies Computer Science</i> GPA: 3.857/4.0	2020-2022
University College Cork , Cork, Ireland <i>BSc Mathematical Sciences</i> Grade: 1st class honors	2015-2019

INDUSTRY EXPERIENCE

Google Summer of Code - MoveIt Project , Edinburgh Scotland <i>Robotics Engineer</i> <i>Supervisors: Mr. Henning Kayser, Dr. Michael Gornier (Chief Architect, Project Maintainer)</i> Creating the Python library <code>moveit.py</code> for the MoveIt project through binding subsets of the C++ codebase and creating Python interfaces on top of these bindings. This project is currently in progress.	2022
Stanford Center for Professional Development , California, USA <i>Course Developer & Facilitator</i> <i>Manager: Mrs. Petra Parikova (Associate Director of Artificial Intelligence & Cybersecurity Programs)</i> Preparing written/coding assignments and supplementary materials for XCS234 (reinforcement learning) professional course based on CS234 (reinforcement learning) graduate course materials. Facilitating a group of 30 students through hosting office hours, live Q&A sessions and answering student questions.	2021-present
Autodesk Inc , Dublin, Ireland <i>Data Engineer, CSO Data and Analytics</i> <i>Mentor: Dr. Hui Li (Research Scientist Autodesk Robotics Lab)</i> Writing code to create and maintain data pipelines for the CSO organization. Performing data analysis and communicating results to internal stakeholders. Presenting research project at company-wide technical conference.	2019-2021
Getvisibility Ltd , Cork, Ireland <i>Machine Learning Engineering Intern</i> <i>Manager: Mr. Derek Coetzee (CTO)</i> Writing code to automate the analysis of text data. Defining data classification and management strategy. Collaborating with ml team lead on dataset creation and document labelling protocol.	2018
University College Cork , Cork, Ireland <i>Teaching Assistant, Mathematics Department</i> <i>Instructor: Dr. Anca Mustata (Mathematics Lecturer)</i> Assisting with class development of the maths circles program and leading biweekly sessions at local schools. Supporting students in solving problems during breakout sessions of the maths enrichment program.	2016-2017

OPEN SOURCE CONTRIBUTIONS

ML Collective <i>Robotics Interest Group Member & GCP Environment Engineer</i> I helped to establish the robotics interest group at ML Collective. Our interest group meets weekly to discuss robotics research and other robotics related topics. I also help maintain the ML Collective GCP environment.	2022-present
MoveIt <i>Robotics Engineer</i> Creator of the <code>moveit.py</code> library, completed as part of the Google Summer of Code program	2022-present

ACADEMIC COMMUNITY CONTRIBUTIONS

Robotics Science and Systems: Workshop on Learning from Diverse Offline Data

Student Respondent

2022

As a student respondent I had the opportunity to record a fireside chat with the great Eric Jang. I also had the responsibility of contributing questions to the workshop on the day.

AWARDS/HONORS

The University of Edinburgh, Research Studentship

2022

Autodesk Inc, TECHX Conference Selection

2020

University College Cork, Title of College Scholar

2017-2019

University College Cork, Quercus Scholarship

2015

Colaiste An Spioraid Naoimh, Model Student Award

2015

Science Foundation Ireland, Quiz National Finalist

2015

University College Cork, Business and Law Award

2013

TECHNICAL SKILLS

Languages: Python, C++, SQL, LATEX, R, HTML, CSS

Simulators: MuJoCo, Isaac Sim, Gazebo

Libraries: Jax, Pytorch, Tensorflow, ROS2, OpenCV, Pyspark, Flask, Airflow

Additional Software Tools: Docker, Kubernetes, Apache Spark, Weights and Biases

LANGUAGES

English, Irish, French