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# EMANUELE DE PELLEGRIN

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I am a PhD student in the Edinburgh Centre for Robotics (ECR) at Heriot-Watt University. I received a BSc in Chemistry from La Sapienza University of Rome in 2016, and an MSc in Artificial Intelligence from Heriot-Watt University in 2020 with a scholarship from The Data Lab.

I entered the ECR's PhD program in Robotics and Autonomous Systems in 2020/2021 with research interests in plan visualisation, epistemic planning, multiagent planning, and human-robot interaction.

2012 - 2016  
**BSc Chemistry**  
La Sapienza University

2018 - 2020  
**MSc Artificial Intelligence**  
Heriot-Watt University

- C/C++
- Python
- Unity Game Engine
- VR
- Arduino
- Automated Planning
- ROS
- Machine Learning

Sep 2020 – Present

**PhD Candidate in Robotics and Autonomous Systems**  
**Edinburgh Centre for Robotics**

**Heriot-Watt University & Edinburgh University**

I have joined this competitive CDT PhD course, where I am currently working on a project about automated planning and learning epistemic action effects for planning in a human collaborative environment.

I am also developing a simulator for planning problem called PDSim, using the Unity game engine.

Jun 2020 – Dec 2020

**Research Assistant Intern**

**ORCA Hub**

**Heriot-Watt University**

Worked on a digital twin interface for robots on oil platforms. During this intern I have learned ROS and how to interface it with a web app to control its main functionalities.

As secondary project I have developed the electronics for the 'Robot Barista' using Arduino, which recently won the best multidisciplinary paper award at the IEEE ROMAN 2022 conference.

Jul 2019 - Mar 2020

**Summer Research Assistant**

**Heriot-Watt University (Computer Vision Lab)**

Worked on the collection and labelling of the RADIATE dataset, which is a collection of radar data in bad-weather ought to be used in autonomous driving cars.

