

Curriculum Vitae – Dr Iain Haughton

 [ihaughton](#) |  [iainhaughton.com](#) |  iain.haughton@gmail.com |  +447876477833

Research Scientist with over seven years' experience in autonomous robotic manipulation, developing novel algorithms, designing hardware, and initiating the Dyson Robot Learning Lab in London.

EDUCATION AND AWARDS

2011 - 2015 **PhD in Particle Physics**, CERN / University of Manchester **STFC Scholarship**
2007 - 2011 **Masters in Physics**, University of Manchester, UK **First Class Honours**
2021 - 2022 **EPSRC Award** – for fostering business and academic research collaborations

PROFESSIONAL EXPERIENCE

Dyson Robot Learning Lab 2022 - Present
Lead Research Scientist London, UK

Enabling robots to acquire practical skills and behaviours using data-driven approaches, including:

◇ reinforcement learning ◇ imitation learning ◇ unsupervised representation learning

Imperial College – Dyson Robotics Lab 2020 - 2022
Lead Research Scientist – Mentor: Andrew Davison (FRS) London, UK

Secondment. Developing algorithms for real-time localisation, mapping and scene understanding.

Dyson Technology Limited 2017 - 2020
Senior Research Engineer Malmesbury, UK

Future Robotics team. Experience in all aspects of robot design and control:

◇ mechanical design ◇ grasping and tactile sensing ◇ computer vision ◇ motion planning

CERN / Christie Cancer Hospital 2015 - 2017
Postdoctoral Research Associate Manchester, UK

Funded to develop novel particle detector for proton therapy.

University of Oxford Summer 2015
Research Intern - Department of Engineering Science Oxford, UK

Studied precision engineering and solid-state sensor fabrication.

PhD in Particle Physics 2011 - 2015
University of Manchester – Advisor: Terry Wyatt (FRS) Manchester/Geneva

Data analysis of the Higgs boson decay, aiding in its discovery and subsequent Nobel Prize.

SKILLS

Management	Skilled in Agile principles, with experience managing and leading a team of engineers
Research	Published in peer-reviewed conferences and journals; delivered talks across disciplines
Programming	Proficient in ROS, Python , C++, C. Proficient in PyTorch ; familiar with Tensorflow
Tools	Expertise in simulators, real-world robots, Docker, large-scale training on GPUs
Hardware	Professional CAD (Siemens NX) for mechanical, electronic and sensor design
Workshop	Experience in milling and turning, high-energy lasers, high-radiation environments

MISCELLANEOUS

Principal trumpet in the London Symphonic Wind Band

Enthusiastic Olympic distance triathlete (PB 2:34H)