

Curriculum Vitae – Dr. Iain Haughton

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For the past seven years, I've worked on advanced robotic manipulation, developing novel IP, authoring Dyson's first robotics paper, and spearheading the Dyson Robot Learning Lab in London.

EDUCATION

2021 - 2022	Fostering business and academic research collaborations	EPSRC Champion
2011 - 2015	PhD in Particle Physics , University of Manchester, UK	STFC Scholarship
2007 - 2011	Masters in Physics , University of Manchester, UK	First Class Honours

PROFESSIONAL EXPERIENCE

Dyson Robot Learning Lab <i>Pioneer – Lead Research Scientist</i>	2022 - Present <i>London, UK</i>
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Secured Dyson's backing to establish the Dyson Robot Learning Lab, where I work on enabling robots to acquire practical skills and behaviours using data-driven approaches, including:

◇ reinforcement learning ◇ imitation learning ◇ unsupervised representation learning

Developing and applying cutting-edge algorithms and techniques. An important aspect of our work is understanding how these approaches can be commercialised and applied to products. I manage a small team focused on this initiative.

Robotics Lab at Imperial College <i>Lead Robotics Research Engineer</i>	2020 - 2022 <i>London, UK</i>
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On secondment to the Robotics Lab at Imperial College, I collaborated closely with Andrew Davison (FRS) and his team. During this time, I worked on innovative algorithms for real-time localisation, mapping and scene understanding based on deep learning and neural radiance field approaches.

Dyson Technology Limited <i>Senior Research Engineer</i>	2017 - 2020 <i>Malmesbury, UK</i>
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Working as part of the future robotics team, I gained experience in all aspects of robot design and control:

◇ mechanical design ◇ electronics and sensing ◇ planning and control ◇ computer vision

Postdoctoral Research Associate <i>University of Manchester</i>	2015 - 2017 <i>Manchester, UK</i>
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Building on my PhD research, I secured funding to continue developing a novel particle detector for proton therapy. In partnership with Christie's Cancer Hospital, I fabricated and tested multiple prototypes.

PhD in Particle Physics <i>University of Manchester – Advisor: Terry Wyatt (FRS)</i>	2011 - 2015 <i>Manchester/CERN</i>
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As a member of the ATLAS experiment, I contributed to the data analysis of the Higgs boson decay, aiding in its discovery and the subsequent Nobel Prize. Concurrently, I developed a novel particle detector.

SKILLS

Management	Skilled in Agile principles, experience managing and leading a team of engineers
Research	Published peer-reviewed papers and delivered talks across multiple disciplines
Programming	Proficient in Python , C++, C. Proficient in PyTorch , familiar with Tensorflow
Hardware	Experienced in many aspects of mechanical, electronics and sensor design
Workshop	Trained and adept in workshop tools, skills, and relevant health and safety practices