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 initiating the Dyson Robot Learning Lab in London.

Education and Awards

2021 - 2022 **EPSRC Champion** – fostering business and academic research collaborations
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 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

Robotics Lab at Imperial College 2020 - 2022
Lead Research Engineer – 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 ◇ electronics and sensing ◇ computer vision ◇ motion planning

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

Funded to develop novel particle detector for proton therapy.

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

Trained in precision engineering and solid state sensor fabrication using lasers.

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

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

Skills

Management	Skilled in Agile principles, experience managing and leading a team of engineers
Research	Published in peer-reviewed conferences/journals and delivered talks across disciplines
Programming	Proficient in **Python**, C++, C. Proficient in **PyTorch**, familiar with Tensorflow
Hardware	Professional CAD training (Siemens NX) for mechanical, electronic and sensor design
Workshop	Experience in milling and lathing, high-energy lasers, high-radiation environments

Miscellaneous

Principle trumpet in the London Symphonic Wind Band
Enthusiastic Olympic distance triathlete (PB 2:34H)