Curriculum Vitae – Dr Iain Haughton

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Researcher with over seven years' experience developing, evaluating, and scaling state-of-the-art ML across physics, medicine, and robotics. My passion lies in crafting cutting-edge AI to drive real-world innovation.

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 software design, including:
◇ Large scale system design ◇ Deep learning for computer vision ◇ Grasping and tactile sensing

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)