

Dr Harry T. Mason

Data Scientist/Engineer



harry.mason@outlook.com

+44 7971741925

Oxford, UK

0000-0002-3464-7254

Education

D.Phil in Biomedical Imaging

University of Oxford, Wadham College, 2015-2020

Supervisors: Dr Mark Chiew and Prof. Karla L. Miller

Part of the ESRC/MRC-funded Oxford-Nottingham Biomedical Imaging Centre for Doctoral Training.

One year of Medical Imaging training, before undertaking a D.Phil in the Physics Group at NDCN.

Thesis title - Exploring subspace-constrained approaches to low-rank fMRI acceleration

M.Eng in Engineering Science - Class 2.1

University of Oxford, Mansfield College, 2011-2015

Thesis supervisor: Prof Michael A. Chappell

Specialized in Information and Biomedical Engineering, with general engineering background.

Thesis title - *Quantitative analysis of ultrahigh field chemical exchange saturation transfer (CEST) MRI data*

Work Experience

Internship for National Science Learning Centre (July-Sept 2015)

Worked in Design and Technology, specializing as creative consultant and researcher in fields of 3D printing and biodesign, especially with application to teaching. Supervisor: Gemma Taylor.

Internship for Computational Health Informatics research group in University of Oxford (June-Sept 2014)

Performed multivariate time-series analysis to predict instances of hypotension in at-risk haemodialysis patients. EPSRC funded.

Supervisor: Prof David Clifton

Internship for Computational Health Informatics research group in University of Oxford (July-Aug 2013)

Analyzed signal quality of post-treatment dialysis data. Performed validation of a novel system for recording track-and-trigger scores for the NHS.

Supervisors: Prof David Clifton, Dr David C Wong

Science Tutor for Oxford Individual Tuition (2015)

Papers

Subspace-constrained approaches to low-rank fMRI acceleration (pre-print)

Harry T. Mason, Nadine N. Graedel, Karla L. Miller, Mark Chiew

Skills

Highly competent with MATLAB, LaTeX, Word, Excel, PowerPoint. ([Github link for MATLAB examples](#))

Experience with Python, C, R, html, Linux command line, bash scripts.

SEDA level 1 teaching award, 2017

Conferences

ISMRM - Institute for Magnetic Resonance in Medicine

OHBM - Organisation for Human Brain Mapping

Posters:

OHBM 2017, Vancouver

British Chapter of the ISMRM Postgraduates, 2018, London - *Won a Silver medal award*

Investigating BOLD, 2018, Oxford

OHBM 2018, Singapore

ISMRM 2019, Montreal

Power Pitches:

British Chapter of ISMRM Postgraduates, 2018, London - *Won a Gold medal award*

ISMRM, 2019, Montreal

Presentations:

OHBM 2018, Singapore

Small Bio

I am interested in data science and optimisation.

Professionally, I practice application of those skills to health science and other consciously-minded fields.

I have volunteered to my time for many charities, including Living Wage campaigns, Oxford Mutual Aid, and Oxfam.

I play Ultimate Frisbee at elite level. I also commentate games and have written/edited Ultimate Frisbee articles.

I am a poet, writing weekly and performing occasionally.