Matthew Docherty - INDUSTRY CV TEMPLATE

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Education

University College London, UK (UCL)
Centre for Doctoral Training (CDT) in Data Intensive Science (DIS)
Ph.D. Astrophysics, 2021-2025
Topic: AI-based Statistical Inference for Cosmology

University of Glasgow, UK (UofG)
MSci. Physics with Astrophysics - GPA: 20/22 (1st Class Hons.), 2016-2021
Focus: Astrostatistics, Quantum Theory, Software Development

Academic Research

Masters Thesis, Institute for Gravitational Research, UofG, 2021
Title: "Importance Resampling using Deep-learning for Gravitational Waves"
Skills:

Vacation Scholarship Research Project, Carnegie Trust (Remote), 2020
Title: "Thermodynamic Filament Diagnostics using $IRIS^2$ Inversion Code"
Skills:

Summer Research Project, Solar Physics Group, UofG, 2019
Title: "Spectral Data Analysis of IRIS Off-limb Prominence Observations"
Skills:

Awards and Funding

Doctoral Training Stipend, UCL CDT DIS, 2021-2025	(£70,000)
Thomson Experimental Thesis Prize, UofG, 2021	(£1,300)
Undergraduate Vacation Scholarship, Carnegie Trust, 2020	(£1,800)
RISE Germany Research Scholarship, AIP Potsdam, 2020	(£1,950)
Summer Research Scholarship, Royal Astronomical Society, 2019	(£1,200)
Astronomy 2 Prize, UofG, 2018	(£150)
Tannahill Bequest (Best Astronomy Lab Student), UofG, 2017	(£150)

Computing Skills

Programming: Python (4 years), MATLAB (6 years), IDL (2 years)
Scripting: Unix-CLI, Bash, C-shell
Systems: Linux, MacOS, Windows
Databases: Pandas, SQL, Excel
Formatting: LaTeX (TikZ/Beamer), Markdown, Word, HTML
Pipeline: SSH, VS Code, JupyterLab, Git/GitHub, Unix-Screen
Deep-learning: Tensorflow-GPU, PyTorch, CUDA

Publications

Thermodynamic Filament Diagnostics using $IRIS^2$ Inversion Code
Conference Poster, Royal Astronomical Society ECR Poster Competition, 2020
https://ras.ac.uk/poster-contest/matthew-docherty

Memberships

Member, American Physics Society, 2021-Present
Member, Institute of Physics, 2020-Present
Member, European Astronomical Society, 2020-Present
Fellow, Royal Astronomical Society, 2020-Present

Experience   **STFC Data Intensive Science Summer School,** Durham University, 2021
                             Chief Scientific Editor, 1451 Undergraduate Review, UofG, 2020-2021