
Work Experience

- Since Dec 2021 **Analysis & Data Visualisation Officer** Birmingham City Council.
Responsibilities:
- Preprocess, analyse and visualise health data (R, Python & SQL)
 - Plan the team's work
 - Develop relationships with stakeholders
 - Present results
- 2018-2021 **Physics PhD Researcher** Georg-August-Universität Göttingen.
Responsibilities:
- Develop code to analyse simulation data (Python & C++)
 - Writing peer-reviewed articles
 - Co-authoring textbook with colleagues
 - Present results at international conferences
 - Tutor bachelor and master students
- 2015 **Call Center Operative** - NHS Mental Health Administration
- 2014 **Research Assistant** Aircraft Research Association.
Responsibilities:
- Prepare model aircraft for windtunnel testing
 - Report writing

Education

- 2018-2021 **Astrophysics PhD**, Georg-August-Universität Göttingen.
Passed: Magna Cum Laude
- 2014 – 2018 **Theoretical Physics Masters Degree**, University of Nottingham
Grade: First
- 2008-2013 **High School**, Bedford Academy.
Grades: AAA (A2 Physics, Maths, Chemistry), AB (AS Further Maths, Biology), 11 GCSEs.

Publications

Miniclusters Made Easy. In: Physical Review D. Vol. 103, No. 083525, 2021.
[arXiv:2006.08637](#)

Structure of Axion Miniclusters. Submitted to publisher. [arXiv:2204.13187](#)

PhD Thesis: Axion Miniclusters: Formation, Structure and Observational Signatures [eDiss](#)

Introduction to Dark Matter. Contact signed: To be published next year by Princeton University Press.

Conferences

QUARKS 2020. Date: 26/06/2021. [YouTube video](#).

Sixteenth Marcel Grossman Meeting (MG16). Date: 09/07/2021. [YouTube video](#).

Cosmo21. [Online Poster](#).

Projects

reg-vis - [Python Module](#) for visualising regression results.

ps-toolkit. [Astrophysics python module](#) for calculating the 1D-matter-power-spectrum using the Press-Schechter formalism.

How's My NHS? [Website](#) to present publicly available hospital performance data.

Programming Skills

Python	Expert	Excel	Intermediate
R	Advanced	JavaScript	Basic/Intermediate
HTML	Intermediate	C++	Basic
LaTeX	Intermediate	PowerBI	Basic
CSS	Intermediate	MATLAB	Basic
SQL	Intermediate		

Languages

English	Native
German	B1