Floe Foxon

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EXPERIENCE

Scientist and Data Analyst (formerly Statistician)	Pinney Associates, Inc.	2020–Present
Research Scholar	Sanford Research	2019
Python Programming Tutor	CodeX, Enactus Nottingham	2018

EDUCATION

MSc Data Science (Statistics) Courses incl.: Programming for Data Science Machine Learning Statistical Computing Bayesian Statistics	University of Leeds	2024–2026 (Exp)
GCert Artificial Intelligence Courses incl.: Deep Learning	University of Texas at Austin	2026 (Exp)
BSc (Hons) Physics with Astronomy Courses incl.: Scientific Computing Computing for Physical Science Mathematics for Physics	University of Nottingham	2017–2020
GCE Advanced Level Mathematics, Physics, Computer Science	Bishop Vesey's Grammar School	2015–2017
Professional Certificate Data Science	IBM	2020
Wolfram Summer School, Physics and Foundational Science Track	Wolfram Research, Inc.	2025

SELECTED WORKS

Foxon, F. 2025. Mining Pockets of Computational Reducibility with AI: Transformer Models of Graph Rewriting Systems. Wolfram Community, Staff Picks.

Foxon, F. 2025. Solar Cycles: Can They Be Predicted? Research Notes of the American Astronomical Society. 9(2):40.

Foxon, F. 2025. Machine Learning for Text Classification in Classical Cryptography. Proceedings of the 8th International Conference on Historical Cryptology HistoCrypt 2025. 60-64.

Foxon, F. 2024. Artificial Neural Network for Hoax Cryptogram Identification. Proceedings of the 7th International Conference on Historical Cryptology HistoCrypt 2024. 86-90.

Foxon, F. 2023. Can Bayesian Statistics Be Used to Analyze Phenomena in Folk Zoology? Journal of Scientific Exploration. 37(3):570–571.

Foxon, F. 2021. Ammonoid Taxonomy with Supervised and Unsupervised Machine Learning Algorithms. PCI Paleontology.

Foxon, F. 2021. Evaluating Modern System Dynamics Software for Use in Astrophysical Simulations. Astronomy and Computing. 36:100486.

AWARDS

First Class Honours Award	University of Nottingham	2020
First Year Scholarship Award for Academic Achievement	University of Nottingham	2018

SKILLS

Programming	Python (sklearn, PyTorch, TensorFlow, pandas, matplotlib), R, SQL, SAS, MATLAB, Java, Wolfram
Software	Microsoft Office 365/SharePoint, Google Workspace, Linux, Windows, GitHub, Tableau, Mathematica

RESEARCH INTERESTS

I am passionate about all sciences and mathematics and my personal goal is to solve complicated problems. I look forward to working on innovative scientific and technical projects that meet cost and time budgets. In particular, I am interested in applications of machine learning and modelling techniques to novel data.

SELECTED MEDIA APPEARANCES

Science ◇ New Scientist ◇ Popular Mechanics