

# FLOE FOXON

Email: [ffoxon@pinneyassociates.com](mailto:ffoxon@pinneyassociates.com) ♦ [Website](#) ♦ [LinkedIn](#)

## EXPERIENCE

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

## EDUCATION

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MSc Data Science (Statistics) Courses: Programming for Data Science Machine Learning Statistical Computing Bayesian Statistics	University of Leeds	2024–2025
GCert Artificial Intelligence and Machine Learning Courses: Deep Learning	University of Texas at Austin	2026
BSc (Hons) Physics with Astronomy Courses: Scientific Computing Computing for Physical Science Mathematics for Physics	University of Nottingham	2017–2020
General Certificate of Education Advanced Level Subjects: Computer Science Mathematics Physics	Bishop Vesey’s Grammar School	2015–2017

## PROFESSIONAL DEVELOPMENT

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Professional Certificate Data Science	IBM	2020
Wolfram Summer School, Physics and Foundational Science Track	Wolfram Research, Inc.	2025

## SELECTED WORKS

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- Foxon, F. 2025. [Mining Pockets of Computational Reducibility with AI: Transformer Models of Graph Rewriting Systems](#). Wolfram Community, Staff Picks.
- 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., Selya, A.S., Gitchell, J.G., Shiffman, S. (2024). [Increased E-Cigarette Use Prevalence is Associated with Decreased Smoking Prevalence among US Adults](#). Harm Reduction Journal. 21(136).
- 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

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

## SKILLS

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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

## ACADEMIC SERVICES

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Peer Reviewer	Scientific Reports; PeerJ; Drug and Alcohol Dependence; Harm Reduction Journal; Internal and Emergency Medicine; Contributions to Tobacco & Nicotine Research; Addictive Behaviors; SSM - Qualitative Research in Health; Nicotine & Tobacco Research
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## RESEARCH INTERESTS

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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

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[Science](#) ♦ [New Scientist](#) ♦ [Popular Mechanics](#)