

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

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|---|-------------------------------|-----------|
| MSc Data Science (Statistics) Coursework: Programming for Data Science Machine Learning Statistical Computing Bayesian Statistics | University of Leeds | 2024–2026 |
| GCert Artificial Intelligence Coursework: Deep Learning | University of Texas at Austin | 2026 |
| BSc (Hons) Physics with Astronomy Coursework: 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. [Machine Learning for Text Classification in Classical Cryptography](#). Proceedings of the 8th International Conference on Historical Cryptology HistoCrypt 2025. 60-64.
- Foxon, F., Niaura, R. 2025. [Use of nicotine products, prescription drug products, and other methods to stop smoking by US adults in the 2022 National Health Interview Survey](#). Health Impact of Electronic Cigarettes and Tobacco Heating Systems Topical Collection - Internal and Emergency Medicine. 20:691-700.
- 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. 2024. [Artificial Neural Network for Hoax Cryptogram Identification](#). Proceedings of the 7th International Conference on Historical Cryptology HistoCrypt 2024. 86-90.
- Foxon, F. 2023. [How prevalent is liver injury attributed to turmeric?](#) The American Journal of Medicine. 137(1):e18.
- 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. & Selya, A.S. 2020. [Electronic Cigarettes, Nicotine Use Trends, and Use Initiation Ages among US Adolescents from 1999–2018](#). Addiction. 115(12):2369–2378.

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

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](#)