

# CONNOR FAULKNER

DATA SCIENTIST | SECURITY RESEARCHER | SCIENTIFIC SOFTWARE DEVELOPER

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## PROFILE

Data scientist and researcher working across security analytics, scientific computing, and interactive research tooling. Experience spans Akamai threat-research work, published technical writing, machine-learning workflows, and browser-delivered scientific software for genomics and computational physics.

## TECHNICAL STRENGTHS

Python Rust SQL WebAssembly

Pandas scikit-learn Dash Plotly

PySpark Power BI Azure

Google Cloud CI/CD

Scientific Computing

## EDUCATION

**Post-Graduate Diploma of Science in Data Analytics** 2020 - 2021  
Dundalk Institute of Technology

**Bachelor of Science in Physics & Astrophysics** 2015 - 2019  
Trinity College Dublin

## SELECTED PUBLICATIONS

**USPS Phishing Campaigns** 2024  
Akamai article on USPS-targeted phishing infrastructure and malicious traffic volume.

**Hospitality Phishing Campaign Analysis** 2023  
Coauthored Akamai threat research focused on DNS analysis and global phishing activity.

**DGA Families with Dynamic Seeds** 2023  
Technical writing on unexpected DGA behaviour in DNS traffic and detection implications.

## EXPERIENCE

**Data Scientist** 2025 - Present

Akamai, Ireland

- Build data-driven products and investigate new cyber security technologies.
- Work across prototyping, analysis, and research-oriented implementation for security-focused systems.

**Data Analyst** 2021 - 2024

Akamai, Ireland

- Worked within the research team to generate insights from large-scale security data.
- Coauthored public Akamai security-research articles covering DGAs, phishing campaigns, and malicious web traffic.
- Used Python, SQL, cloud tooling, and analytics workflows to support investigation and reporting.

## SELECTED PROJECTS

**Ising Model Simulation in Rust + WebAssembly** 2026

- Active computational physics project with interactive 3D visualisation, temperature sweeps, and critical-point analysis.
- Built around Rust, WebAssembly, and browser-side worker execution to keep the interface responsive during simulation.

**Genomics Explorer** 2021 - Present

- Interactive public tool for exploring PCA-based population structure in the 1000 Genomes dataset.
- Combines analysis, visualisation, and deployment into a usable research-facing web app.

**Applied Machine Learning Projects** 2021

- Built end-to-end forecasting and classification projects spanning Bitcoin time-series modelling and football match prediction.
- Modernised older academic work with clearer evaluation, cleaner data pipelines, and deployable interfaces.

## PROFESSIONAL FOCUS

- Security analytics and technical research communication.
- Scientific software for simulation, data exploration, and explainable interfaces.
- Cross-disciplinary work connecting data science, physics, and bioinformatics.

Portfolio, live projects, and writing samples: [connorfaulkner.com](https://connorfaulkner.com)