PROFESSIONAL EXPERIENCE

Data scientist and product developer

August 2023 — ongoing

Qatium

Remote

- Spearheaded the machine learning (ML) strategy according to business goals by proactively discussing needs with stakeholders
- Constructed an ML pipeline (from data to deployment and monitoring) to allow categorization of network properties with unknown labels, improving app experience for new customers (data processing, multi-label categorization, Tensorflow, SQL)
- Led an ML project to uncover underlying patterns in customer data to enhance predictive hydraulic models (time series analysis)
- Developed web applications to address complex challenges in water infrastructure management (Typescript, React)

Al resident February 2023 — November 2023

Apziva

Remote

- Generated a state-of-the-art ML pipeline using Natural Language Processing (Seaborn, Keras) and Learn-to-Rank algorithms to reduce the cost of talent acquisition by streamlining the screening process and increasing efficiency
- Created an advanced neural network model (CNN) to assist visually impaired individuals with document scanning independently
- Forecasted financial movements using the latest algorithms including LSTM, ARIMA and Prophet in order to maximize profit

Computational researcher June 2019 — August 2022

Santa Fe Institute

Santa Fe. NM. USA

- Orchestrated the construction of computational models (Gillespie algorithms, stochastic modelling, optimization) for \$7 million NASA project to analyze space data for signs of life
- Devised ML approaches to look for general polymeric structures (abstracted from known biopolymers) in spectrometry data
- Supervised the writing of two chapters in a collaborative effort to summarize key literature in astrobiology in one collection
- Executed independent peer review of NASA grants to select NASA's next early-career researchers developing innovative project
- Organized a workshop for 30+ emerging scholars (budget: \$67k), along with conference sessions
- Published 10 papers in high-impact journals, and presented at key conferences and universities

CEO and Co-founder November 2017 — June 2020

Encelo laboratories

London, UK

- Designed the business-case for non-invasively sourcing patient specific cells for biotechnological applications, leading the business to secure over £150k in private equity and over £40k in grant funding
- Obtained 7 letters of intent from potential clients worth over £50k annually combined, and letters of support from top pharmaceutical and biotech companies
- Initiated a patent process protecting our innovation (published in 2023)

Entrepreneur in residence

June 2017 — October 2017

Deep Science Ventures

London, UK

- Top 3% of candidates selected for the VC-backed program to solve difficult technical challenges in multidisciplinary projects while developing a deep understanding of biotech ecosystems (including health, energy, and climate)
- Built business-cases from a position of fulfilling a need and solving a problem observed in the world while disrupting the established system

EDUCATION

Professional development, Terra.do Software Stacks in Climate Tech	2024
Certificate, IBM Data Science Certificate	2023
PhD Chemistry, University College London	2017
BSc Biochemistry, University College London - Graduated with honors in the top 5% (Dean's list)	2012

SKILLS

Tools Python, Pandas, SQL, Numpy, NLP, CNN, Sci-kit, Matplotlib, Seaborn, TensorFlow, Keras, Typescript English (fluent), French (fluent), Spanish (intermediate)

AWARDS AND FEATURES

Peer reviewer for high impact scientific journals (Nature Ecology and Evolution, Journal of Molecular Evolution, Life)	2020 — 2023
Featured in The Economist and the '50 inspirational women in STEMM' book	2022
Orchestrated a successful Kickstarter campaign, raising over £4000	2018
Awarded 'best talk' at a conference	2018