






Mark Tran

DATA SCIENCE • RESEARCH

Computational researcher transitioning from academia to the data science industry.

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SKILLS

Programming Languages **Python** (*matplotlib, numpy, pandas, seaborn, scikit-learn*), **R** (*dplyr, ggplot2, readr, tidyr, tibble*), **SQL, Git**
English, Polish, Vietnamese.

EXPERIENCE

Research Consultant

12/2023 – Present

Outsmart Insight

Freelance, Remote

- Top 1% consultant among over 5000 researchers from world-leading universities.
- Identified, shortlisted and interviewed technical experts in R&D for assessment of research proposals, facilitating deployment of innovative scientific solutions to commercial viability.
- Evaluated deployment strategies of emerging technologies for research institutions and multinational companies, including BAE Systems and Sellafield.

Doctoral Researcher

09/2018 – 05/2024

University College London

London, UK

- Developed and published a computational tool facilitating the integration of multi-omics data to infer cancer evolutionary histories.
- Produced five simulated cancer datasets with noise simulations for optimisation and benchmarking.
- Optimised the methodology's algorithm, resulting in a performance increase of up to 60%.
- Reduced code complexity, increasing the tool's efficiency by over 1000%, and lowering runtimes from days to hours.
- Assessed the tool on large-scale cancer datasets, identifying novel evolutionary processes for improved patient diagnostics.
- Delivered presentations and engaged in poster competitions at multiple UK and international conferences.

Student Ambassador

08/2017 – 09/2017

Lancaster University

Lancaster, UK

- Mediated communication with university staff, leading to admission of over 50 prospective students.

Research Assistant

07/2016 – 08/2016

Lancaster University

Lancaster, UK

- Refined the diagnosis of Ebola viruses by 40% through optimisation of a Western Blotting protocol.

EDUCATION

Doctor of Philosophy (PhD)

09/2018 – 05/2024

University College London

London, UK

- Doctor of Philosophy in Bioinformatics.

Master of Research (MRes)

09/2017 – 11/2018

University College London

London, UK

- Master of Research in Biosciences: Stem Cells and Developmental Biology.

Bachelor of Science (BSc)

10/2014 – 07/2017

Lancaster University

Lancaster, UK

- Bachelor of Science (Honours) in Biomedical Science.

PROJECTS

VGSP: Video Game Success Predictor

06/2024 – 08/2024

- Developed and tested classification models to identify key factors contributing to a success of a video game.

MAPSCE: MAPping SubClonal Events

05/2021 – 03/2024

- Developed a computational tool for integration and mapping of subclonal events of cancer patients on tumour evolutionary trees.
- Released the tool on GitHub as an R package and further translated the method to Python.