

Anna Antoniou

Oxfordshire | anna.antoniou@gmail.com | [Linkedin](#)

SUMMARY

Data scientist with 3+ years industry experience. Strong mathematical background applied in the healthcare sector. Solid research and programming track record in result-oriented environments.

Team player with strong communication skills.

EXPERIENCE

Sensyne Health, Oxford

Senior Data Scientist | DEC 2019 – NOW

Data Scientist | FEB 2018 – DEC 2019

- Working dynamically with small interdisciplinary teams composed of clinicians, data scientists and machine learning engineers
- Using large-scale public data and anonymised Electronic Health Records to develop advanced analytic methods and pipelines for disease classification and patient trajectory prediction
- Developing new ideas, building prototypes and adapting solutions from state-of-art papers
- Coding and testing using Python
- Facilitated in rapid growth of team by Interviewing across all positions and developed first summer internship program
- Worked on the following projects:

Data anonymisation

- ❖ Lead project to quantify risk of patient re-identification given specific anonymisation protocol
- ❖ Developed a novel probabilistic approach and algorithm
- ❖ Drive IP portfolio through first in-house patent (pending approval)

Re-designing a randomised clinical trial

- ❖ Time - critical forensic investigation of all stages of a clinical trial with the aim of proposing modifications to increase likelihood of success
- ❖ Work included unfolding the story around available data and offering alternative analytical approaches to classical statistics in order to extract useful features via machine learning
- ❖ Delivery of findings to clients, CEO and stakeholders

Understanding disease area with big pharmaceutical client

- ❖ Part of a team, conducting research and implementing novel deep-learning approaches for disease stratification using longitudinal Electronic Health Records
- ❖ Responsible for the evaluation of unsupervised work using custom evaluation techniques

Science to Data Science, Pivigo

Data Scientist | OCT 2017 – DEC 2017

- Part of a small team working towards building a recommender model to aid in the promotion and sales of On Running, through the Science to Data Science programme, Pivigo.
- Conducted research using Google's BigQuery database and Python
- Presented results to On Running team

Imperial College London, South Kensington Campus

Research Assistant | SEPT 2015 – MAR 2016

- Conducted research and wrote an extensive review on a material used in the nuclear industry within Rolls Royce. Suggested alternative alloys that would reduce costs by 20%.

ACCENT International and University of California, Berkeley, London

Mathematics Teaching Assistant | SEPT 2015 – DEC 2015

- Taught calculus to a class of 45 first year undergraduate students who spent a term abroad in London with ACCENT International Consortium for Academic Programs Abroad.

Point Nine Financial Technologies, Cyprus

Operations Analyst Scientist | AUG 2010 – SEPT 2011

- Part of a small team during the development and launch of a new cloud platform offering live account updates and analysis to hedge fund clients.
- Initiated data consolidation in collaboration with the developers, ensuring data consistency and smooth synchronization.

EDUCATION

Imperial College London

MPhil in Nuclear Engineering, Modelling and Simulation | SEPT 2011 – MAR 2015

Research in material science of nuclear fuel in reactors using finite element modelling. Supervised by Prof Fionn Dunne.

King's College London

MRes in Physics, Theory and Simulation | SEPT 2009 – JUL 2010

Used molecular dynamics and density functional theory to investigate the kinetics of structures used in the pharma industry. Discovered a new stable state [DOI:10.1002/cphc.201200700]

University of Oxford

BA Physics | OCT 2006 – JUL 2009

SKILLS

Technical: Python, (Numpy, Pandas, Scikit-learn, Matplotlib), Git, SQL

Data skills: Extensive industry experience in analysing large, noisy, heterogenous datasets

Other: Strong ad hoc problem solving, hands-on experience with analytical, predictive and statistical modelling, excellent communicator

REFERENCES

Will be provided upon request.