

# Scott Jie Shen Isherwood, PhD



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## SKILLS

### Technical

- Python, R, SQL, Excel, Bash, Git,  $\text{\LaTeX}$ , MATLAB, AWS, Docker.

### Misc.

- Consulting & strategy, scientific research, innovation, big data, financial modelling, business intelligence, statistics, data analysis, machine learning, artificial intelligence.

## EXPERTISE

- I have over 9 years of experience in complex statistical modelling, and data analysis. I can utilize machine learning algorithms and statistical methods to identify patterns, predict outcomes, and uncover hidden relationships within any data type.
- I actively contributed to the maintenance and security of multiple departmental servers, prioritizing data safety and ensuring seamless operations of Linux-based systems.
- I have organized multiple inter-institutional collaborations and colloquiums and attended and presented findings at various conferences. I possess strong interpersonal and communication skills, enabling me to work collaboratively in interdisciplinary teams and bridge the gap between technical and non-technical stakeholders.

## PROFILE

My research career has centred on modelling and understanding human behaviour. My deep knowledge of applied psychology places me in a great position to analyse and predict how macro- and micro-level decisions affect the viability of markets and businesses. I recently self-funded and sat the CFA level 1 exam, exemplifying my commitment to merge my experience in the life sciences with the investment sector.

## WORK EXPERIENCE

2024 – . . . . Angel Investor

*South East Angels, Brighton*

- Provide capital and strategic guidance to high-potential biotechnology and life sciences startups as part of an angel investment network.

2023 – 2024 Data Analyst

*Cartalogic, London*

- Conducted in-depth data analysis to support strategic decision-making and optimize tooling processes, utilizing advanced analytics tools and methodologies.
- Developed and maintained dashboards and reports to monitor KPIs related to product usage, customer engagement, and operational efficiency.

2019 – 2023 PhD, Cognitive Neuroscience

*UvA, Amsterdam*

- Modelled fMRI data in Python using newly developed meta-analytical approach; created data pipelines; built visualisation tools; optimized preprocessing streams.
- Implemented novel deep learning technique for the segmentation of structural MR data in Python; optimized image preprocessing.
- Combined reinforcement learning and sequential sampling models to better reduce behavioural RL datasets; experiments implemented in Python; models built and optimized in R.
- Optimized dimensionality reduction pipeline using PCA to increase the signal-to-noise ratio of high resolution MR images; fine-tuned MR sequence.
- Taught programming and fMRI/behavioural modelling at summer school; supervised multiple internships.

2018 Internship, Cognitive Neuroscience

*IMCN, Amsterdam*

- Developed sequential sampling model in perceptual decision-making task; cognitive bias task implemented in Python; cognitive model implemented in R

2017 Internship, Neuroeconomics

*CREED, Amsterdam*

- Applied reinforcement learning model to task testing behavioural responses to uncertainty; experiment implemented in MATLAB; large literature search.

2016 Internship, Biophysics & Immunology

*KCL, London*

- Utilized sophisticated biophysical models aimed at estimating binding rates of antibody fragments; contributed to advanced modeling methodologies and precise estimations within biophysics.

## VOLUNTEERING

2022 – . . . . Data Scientist, *Statistics Without Borders*

2016 Research Assistant, *NUH Singapore*

2012 – 2016 Inpatient Unit, *St Barnabas Hospice*

## EDUCATION

2016 – 2018 MSc, Brain and Cognitive Sciences  
8.3, Cum Laude

*University of Amsterdam*

2013 – 2016 BSc, Biochemistry  
First class honours

*King's College London*

## CERTIFICATIONS

2024 Investment Management Certificate (IMC) 1, *CFA UK*

2023 Machine learning in Python, *edX MIT*

2021 Artificial Intelligence in Python, *edX Harvard*