

# OWEN J. THOMAS

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## PROFILE

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Enthusiastic postgraduate about to commence the study of an MSc in Theoretical Physics at Kings College, London (part-time). I am a highly competent self-directed learner, with an aptitude for solving intense and abstract problems via robust logical reasoning. Through my experiences I have honed strong practical skills, demonstrating a keen ability to translate theoretical knowledge into real world application.

## EDUCATION

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### Kings College London

2024 - Present

Master of Science - MSc, Theoretical Physics

### University of Exeter

2021 - 2024

Bachelor of Science - BSc (Hons), Physics

## PROFESSIONAL EXPERIENCE

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### Research Intern

June - July 2024

*University of Exeter - Centre for Metamaterial Research and Innovation*

*Exeter, Devon*

I held the position of a research intern under Dr. Calum Williams with the physics department at the University of Exeter. I worked primarily on hardware control, my objective being to create software that communicated with each individual piece of hardware in the lab. This was completed by working with each components SDK, eventually culminating in a singular python file with a GUI that allowed researchers to automate and conduct their experiments remotely. My work was well received and is currently being used in research exploring hyper-spectral imaging for medical purposes.

### AI Development and Training

April - June 2024

*Outlier AI - Mathematics Consulting*

*Remote*

I worked as a model evaluator for Outlier AI, specifically working on the reinforcement of an LLM's mathematical capability. This included inventing unique and original mathematical prompts that were sufficiently complex to stump the model, and then correcting the model so that it may go on to improve its reasoning ability within mathematics.

### Skilled Barista

2020 - 2021

*Costa Coffee*

*Chichester, West Sussex*

For the period of a year I worked as a skilled barista for Costa Coffee. Working in close-quarters with a busy team, I was able to communicate effectively and keep a cool head under heavy customer load whilst maintaining high standards for a clean and organised workspace.

## TECHNICAL SKILLS

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- Writing clean, well documented code in Python, familiar with a range of modules.
- Using Git through the command line for version control.
- Elementary operations using SQL.
- Training and testing machine learning models with TensorFlow and scikit-learn.
- Static web page development and design using HTML and CSS (see portfolio website at the top of the page).
- Strong mathematical and statistical skills, including advanced calculus, differential equations, and linear algebra.
- Experience designing and conducting experiments, drawing meaningful conclusions from my data.
- Proven ability and eagerness to continuously learn new programming skills.