




# Edward Antonian

 [linkedin.com/in/edward-antonian-06776112a](https://www.linkedin.com/in/edward-antonian-06776112a)  
 [github.com/nickelnine37](https://github.com/nickelnine37)

2/7 Lower Gilmore Bank, Edinburgh, EH3 9QP  
+44 7378773291 · [edward.antonian1@gmail.com](mailto:edward.antonian1@gmail.com)

PhD student at [Edinburgh Centre for Robotics](#). My passion is solving meaningful problems in science, data analytics and education. I am ambitious, never pass on new learning opportunities, and try to apply myself with drive, enthusiasm and initiative at all times.


## Education & Qualifications

 **MSc Data Science - University of Edinburgh, UK (Distinction)** **September 2018 – Present**

- Courses covered a range of practical and theoretical skills around data science, machine learning and scientific computing.
- Dissertation centred around Bayesian inference on white blood cell migration models using live imaging.

 **BSc Physics - University of Durham, UK (1st Class)** **September 2014 – June 2018**

- Covered a broad range of maths and physics including cosmology, quantum mechanics and laboratory work.


 **Year Abroad - National University of Singapore, Singapore** **August 2016 – May 2017**

- Modules included financial mathematics, probability & statistics, computational physics, programming in C.

**Abingdon School, UK** **September 2009 – June 2014**

- A levels: Maths – A\*. Further Maths – A\*. Physics – A. Economics – A. GCSEs: 9 A\*s, 2 As.

## Relevant Experience

 **Mentor and Project Coordinator, The DataKirk, Scotland** **September 2019 – Present**

The DataKirk is a community-based non-profit organisation aiming to empower young people by equipping them with skills for the data age, focused on coding, data analysis and data visualisation. I take an active role in both teaching and administration.

- Write and coordinate two separate curricula.
- Help to organise events and handle administrative tasks.

→ Developed discipline, organisation and time management. Built the ability to communicate information concisely and effectively.

 **Data Science Intern, StatusToday, UK** **April – September 2018**

StatusToday is a leading HR-tech startup providing AI-powered wellness and productivity insights for employees and managers. I worked in the data science team of four people where we developed the python back-end, built new insights and designed data visualisations. Some of my key responsibilities were:

- Creating a time-series “email overload” metric, as a predictor of employee burnout.
- Using object-oriented design patterns to build new back-end features. Debugging and optimising existing code.

→ Technologies: Python (Scientific stack, OOP), Spark, MongoDB, Linux.

→ Outcomes: Worked on live, production-grade code in a real data science environment. Developed technical and professional skills.

 **Quant/Data Science Intern, Smartfolios, Singapore** **April – July 2017**

Smartfolios is a digital advisory and wealth management platform offering users algorithmically rebalanced, thematic equity portfolios. During my time the company was taking part in a three-month fintech accelerator programme *StartupBootCamp*. My role largely involved researching and implementing portfolio optimisation strategies.

- Built Singapore’s first robo-advisor using CVaR optimisation. Was [licensed for use](#) by Singapore-based Marvelstone Capital.
- Built a model for scenario projection by approximating the solution to a set of stochastic differential equations.

→ Technologies: Python (Scientific stack), Quantopian/Zipline, SQL.

→ Outcomes: Developed research and coding skills, developed professional confidence.

 **Equities Intern, AIMS Asset Management, Malaysia** **July – August 2016**

Worked within the Panah Fund of AIMS, an Asian markets equity long/short hedge fund group.

- Created VBA application to pull and visualise macroeconomic data in order to compare and analyse global trends.
- Worked on an error analysis model for determining fair market capitalisation and associated uncertainty.

→ Technologies: VBA for Excel, Bloomberg terminal + API.

→ Outcomes: Gained hands-on programming experience and worked as part of a team in a high-pressure environment

## Skills

- Proficient in object-oriented Python. Good knowledge of all common scientific packages, plus pymongo, pyspark and several deep learning frameworks.
- Working knowledge of Java, Matlab, VBA, C.
- Experience working with remote databases and servers.
- Linear algebra, calculus, probability, machine learning.
- Basic web design in HTML, CSS, JavaScript.
- Ability to perform under pressure, cope with large work-

loads and consistently meet deadlines.

- Good inter-personal communication skills, enthusiasm, tact & diplomacy and sense of humour.

## Interests

- Competing and coaching at college rowing club.
- University debating.
- Maintaining maths/programming blog. Find it [here](#).
- Self-improvement and mindfulness meditation.