

Andrew Connell

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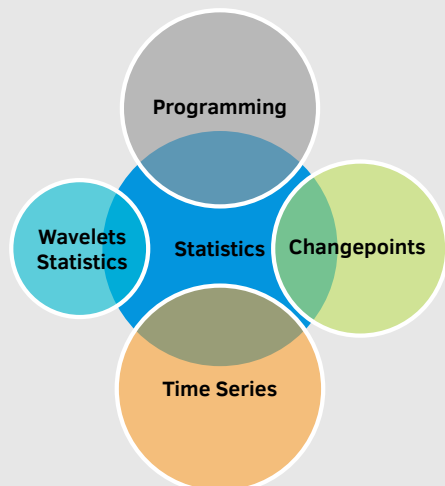
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AndrewC1998

Huxley Building, SW7 2AZ

Technical Skills

Overview



Education

BSc, Mathematics with Statistics

FIRST CLASS (HONS)

Lancaster University

2016 - 2019 | Lancaster, UK

MSc, Statistics (Theory and Methods)

PENDING

Imperial College London

2019 - 2020 | London, UK

PhD, Statistics

Supervisors:

Prof. E McCoy & Dr. E Cohen

Imperial College London

2020 - Present | London, UK

References

Dr. R Killick - Lancaster University

Prof. E McCoy - Imperial College

Dr. E Cohen - Imperial College

Experience

March 2018 - **Team Leader - Enactus Lancaster**

Enactus

June 2019

- Enactus is an international non-profit organisation, led by students, which develops entrepreneurial skills in order to lift people out of poverty.
- The Team Leader role has enabled me to develop my understanding of the many different aspects of running a business such as project management, communication skills and using resources effectively.
- Led 80 students across nine projects, ensuring all projects were kept to schedule and beneficiaries were impacted through entrepreneurial action.
- Developed several social enterprises. Details can be found on my website.

Oct 2017 - **Radio Presenter - The Atomic Fridge**

Bairrigg FM

June 2019

- Hosted a weekly university radio show interviewing guest speakers such as professors, lecturers and Ph.D. students to discuss their areas of research.
- 'The Atomic Fridge' won university acclaim.

Sep 2016 -

Mathematics Ambassador & Lead Representative

Lancaster University

Sep 2019

- Throughout my undergraduate degree, I represented students at the faculty council where any serious issues were raised.
- Presented lectures and talks on student life at Lancaster, studying Maths and answering any subject specific questions the applicants had.
- In my final year, I was elected Lead Representative. This involved chairing meetings and resolving undergraduate and postgraduate issues.
- Since graduating, I have been invited back to present several talks on the benefits of pursuing a degree in Mathematics to future applicants.

Sep 2019 -

Post-Graduate Representative

Imperial

Sep 2020

- Alongside my postgraduate studies, I was the MSc representative.
- Organised events including talks on maths and socials in the first term.
- During the COVID-19 pandemic, organised online coffee breaks, talks and activities to support the students and their wellbeing.

Jul 2017 -

Robotics Teacher

Tamwood

Aug 2017

- Prepared and delivered lessons, designed assessments, wrote reports on pupil progress, and supported students studying away from home.
- Taught basic understanding of robotics and fundamentals of programming.

Nov 2016 -

Men's Welfare Officer

Cartmel College

Dec 2017

- Helped students adjust to university: providing guidance and counselling.
- Supported students during the year with any difficulties they encountered.

Research & Publications

May 2018 -

Google Summer of Code & R Project Developer

Google

Aug 2018

Thesis: An exact online method for multiple changepoint detection for non-stationary data streams.

- Reached out to professional programmers and academics, Dr. R Killick and Professor D Matteson, and with their guidance developed a computational based research project.
- Researched and developed statistical methods for changepoint detection.

May 2019 -

Thesis: Second Order Structure in the Changepoint Package.

Aug 2019

- Added new functionality to the changepoint package that could detect changes in dependence using exact search methodology.
- The change in second order structure algorithms include the commonly used AR(p) structure and changes in variance and autocovariance through the Locally Stationary Wavelet model.

May 2020 -

Imperial College London

Imperial

Sep 2020

Thesis: Identifiability of Self-Exciting Point Processes.

- Introduced new theory for Hawkes processes. The thesis provided a tractable form of the Fisher Information, the negative moments and an exact identifiability condition.

Other Skills & Information

Jan 2005 -

Musician & Actor

present

- Play the Piano and several woodwind instruments, holding ABRSM grades for these instruments as well as music theory.
- Played in various concert bands while at school, sixth form and university including Lancashire Youth Concert Band.
- Gold LAMDA award (distinction)