Andrew Connell

Statistical Researcher

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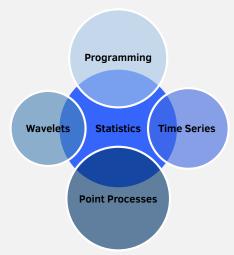


AndrewC1998



Huxley Building, SW7 2AZ

Technical Skills



Education -

BSc, Mathematics with Statistics

FIRST CLASS (HONS) Lancaster University 2016 - 2019 | Lancaster, UK

MSc, Statistics (Theory & Methods) DISTINCTION

Imperial College London 2019 - 2020 | London, UK

PhD, Mathematical Statistics

Supervisors: E. McCoy & E. Cohen Imperial College London 2020 - Present | London, UK

References -

Prof. R Killick - Lancaster University

Prof. E McCoy - LSE

Dr. E Cohen - Imperial College

Dr. S Brzezicki - Imperial College

Experience

Oct 2022 -**Visiting Student - London School of Economics** Present

Gained access to world-leading academics from both LSE & Imperial and conducted research under the guidance of my PhD co-supervisor.

LSE

Imperial

Imperial

Oct 2020 -Present

Graduate Teaching Assistant - Imperial College London Leadership role as senior GTA with extensive experience across multiple departments; delivering lectures; and designing materials for Statistics, Game Theory, & Statistical Learning courses as well as content creation for the MSc Statistics, MSc Machine Learning and Data Science, and several Data Science Challenges.

June 2019 -Present

May 2024 -Julý 2024

Tutor & Educational Consultant Through my self-employed practice and work with Elite Prep, I provide one-to-one and small-group tutoring in mathematics, statistics, and computing for students following global curricula from secondary school through to postgraduate level and partner with institutions to design and teach courses delivering professional devel-

opment workshops and training focused on statistical literacy and STEM upskilling. **Guest Lecturer & Teaching Assistant - Washington St Louis** Co-teaching of Differential Equations for study abroad students at CIEE including

Sep 2020 -PhD Statistics Representative - Imperial College London **Imperial** Sep 2023 Advocate for PhD students addressing needs and welfare concerns by organising reading groups, socials, & events.

creating & delivery of content: exams, coursework, & lectures.

Sep 2019 -Post-Graduate Representative **Imperial** Sep 2020 Supporting MSc students before & during COVID-19 pandemic remote learning.

March 2018 -**Team Leader - Enactus Lancaster** June 2019 Project management of nine projects ensuring all projects were on schedule and well-resourced to positively impact beneficiaries through entrepreneurial action.

Sep 2016 -**Mathematics Ambassador & Lead Representative** Lancaster University Sep 2019 Representative for students at faculty council meetings. Lead Representative in final year, chairing meetings and resolving student issues. Invited post-graduation to outline the benefits of a Mathematics degree to prospective students.

Research

May 2018 -Google Summer of Code & R Project Developer Aug 2018

Google Exact online multi-changepoint detection method for non-stationary datastreams Worked with Prof. R Killick & Prof. D Matteson to develop a novel computational

method for changepoint detection in an online setting.

May 2019 -Second Order Structure in the Changepoint Package Aug 2019

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

May 2020 -**Imperial College London** Sep 2020

Identifiability of Self-Exciting Point Processes

The thesis provided new work for deriving the Fisher Information, the negative mo-

ments & an exact identifiability condition for Hawkes Processes.

Oct 2020 -**Imperial College London** Present **Novel Theory and Methods for Hawkes Processes**

Introduced new theory for point processes during PhD with projects including: Identifiability Constraints, Wavelet Estimation of Time-Varying Hawkes Processes, & Debiased Whittle Estimation for Binned Time-Varying Hawkes Processes.

physics, & statistics. Performer of stand-up comedy at venues around London.

community, contributing to operations & events, with experience in bouldering,

Other Skills & Information

Jan 2005 -**Musician & Actor**

A keen musician with concert band experience. Instruments include piano and present woodwind with ABRSM grades & music theory. Gold LAMDA award (distinction) in drama. Co-founded Imperial's Sea Shanty Choir for communal singing.

Oct 2017 -Comedian & Broadcaster

Co-host of The Atomic Fridge, Bailrigg FM, interviewing academics on mathematics, present

Jan 2021 -**Events Organiser**

Organised & managed events for Sunflower Dance Collective, handling logistics, Sep 2023 equipment, sound, & lighting; bar management including inventory, staffing, & cus-

tomer service; liaised with acts; and oversaw photography for promotional content. Jan 2020 -Climber Active member of Imperial College Mountaineering Club (ICMC) & London climbing present

> lead, & trad climbing. Developed a costing site for London Climbing Centres to improve efficiency.