Alexander Roberts
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EDUCATION

University of Oxford   Oxford, UK
PhD in Mathematics; Supervisor: Prof. Alex Scott   Oct. 2014 – Oct. 2018

My thesis consists of six papers spanning Combinatorics and Probability. Through this, I undertook independent research, forged new collaborations, and communicated my work through seminars.

Master of Mathematics; First class (83%)   Oct. 2010 – Jun. 2014

Areas of study: Probability, Combinatorics, Statistical Lifetime Modelling, Stochastic Differential Equations, Financial Mathematics, and Bayesian Statistics.

EXPERIENCE

University of Oxford, Mathematical Institute   Oxford, UK
Postdoctoral researcher in Mathematics; PI: Prof. Peter Keevash   Aug. 2019 – Dec. 2020

– Carried out research in Combinatorics and prepared papers for publishing in collaboration with others.

Merton College   Oxford, UK
Lecturer and Tutor   Oct. 2014 – Sep. 2020

– Organised and taught small-group tutorials for undergraduates in a range of Mathematics courses.
– Co-ordinated with Prof. Alex Scott and others regarding academic and welfare matters.
– Interviewed prospective undergraduate students.

Selex–ES (now Leonardo)   Luton, UK
Systems Engineer Intern   Jul. 2014 – Sep. 2014

– Researched applications of Stochastic Differential Equations and Statistical Filters in the defence industry.
– Ran simulations of radar tracking and clock drifts in Matlab.

University of Oxford, Statistics Department   Oxford, UK
Summer Research Student; Supervisor: Prof. Matthias Winkel   Jul. 2013 – Sep. 2013

– Researched limiting distributions of Population Models and prepared a paper for publishing.

Viacom International Media Networks   London, UK
Market Data Analyst Intern   Sep. 2011

– Wrote a product mapping algorithm in VBA for Excel.
– Collaborated with the development team on implementation.

OTHER SKILLS AND ACTIVIES

Danish: Attending classes three days a week since Sep. 2020 (currently level B1-B2 CEFR).

Python: Basic/Intermediate - I have taken various online courses concerning Machine Learning and TensorFlow.

Bridge: England junior international player 2010–2017, England junior international coach 2017–
England junior champion 2017, Austrian champion 2017.

Squash: University first team player 2012–2018, captain 2017–2018
KSK team member in Danish elite division.

REFERENCES

Prof. Peter Keevash, University of Oxford   Email: keevash@maths.ox.ac.uk
Prof. Alex Scott, Oxford University   Email: scott@maths.ox.ac.uk
Dr. Michał Przykucki, risk modeller at G-Research.   Email: michal.przykucki@gmail.com
Previously a postdoc at Oxford University with whom I collaborated.