

Akmal Rafiq

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EDUCATION

Kings' College London

2018 – 2020

MSc Complex Systems Modelling- from Biomedical & Natural to Economic & Social Sciences

Merit

- Dissertation: [Optimal Resource Allocation and Optimal Investment Strategies](#) (Distinction)
- Best performing modules: Mathematical Biology, Elements of Statistical Learning, Research Methods and Advanced Topics in Complex Systems
- Coursework Projects: [Effects of Latitude on Wildfires in different US Ecosystems](#), [Path Integral Methods in Finance](#), [Contagion in Financial Networks](#)

London School of Economics and Political Sciences

2015 – 2018

BSc Mathematics and Economics

Lower Second Class Honours

- Highest Scoring Modules include: Real Analysis, Complex Analysis, Further Mathematical Methods, Econometric Theory

Adams Grammar School

2008 – 2015

- A Levels: A*A*Aaa in Mathematics, Further Mathematics, Chemistry, Physics & Additional Further Mathematics
- GCSE/IGCSE: 6A*, 3A, 2B
- Extracurricular Activities: Awarded School colours in Hockey, Senior Arts, Music and Cross Country.

EXPERIENCE

Junior Data Scientist

September 2019 – Present

Annalect Marketing Science, OMD Manning Gottlieb

- Worked on econometrics projects measuring the effect of media in healthcare, cosmetics and automotive industries. Each project requires a different approach, some just requiring a simple linear regression to building complex hierarchical Bayesian models.
- Build optimisation tools and real time data visualisation dashboards for clients. These are built with R Shiny and Datorama.
- Conduct my work across a consistent workflow across Excel, Python, EViews and R but have been reworking it so we can do all our work on R.

Graduate Teaching Assistant

September 2019 – January 2020

King's College London

- For the Winter Semester of 2020/21 Academic Year, in the Winter Semester, I shall be assisting with the teaching of two undergraduate Mathematics modules, Calculus I and Linear Algebra I, and a postgraduate module in Bayesian Statistics, Elements of Statistical Learning.
- Responsibilities include hosting online tutorials, writing up solutions and providing feedback on problem sets.
- Teaching will continue into the Spring Semester.

Summer Research Assistant

July 2018 – September 2018

LSE

- Assisted with a project to collate a comprehensive literature review on the causes and effects of 'Son Preference' around the world. I primarily focused on research based in Indian subcontinent.
- Began work with a PhD student looking into flaws with methods of GDP measurement and obtaining accurate estimates of the Shadow Economy using cryptocurrency transactions.

Course Facilitator

September 2017 – January 2018

LSE LIFE

- Planned a six week course with five other students to teach key quantitative skills to students studying qualitative subjects. This included teaching them basic statistics, understanding regression and how to use STATA.
- Wrote up lesson plans and gave lessons to groups of fifteen to twenty students.
- Course was highly received and will be continued in future years

Student Researcher

May 2017 – June 2017

LSE GROUPS

- Took part in the LSE GROUPS scheme- a programme which brought together undergraduate students of a wide range of disciplines to work together on a research project.
- Collaborated with a team of student researchers to produce a [paper about public perceptions of the UK's Terror Threat Level System](#).
- Evaluated data collected from surveys and the internet via a mixture of qualitative and quantitative methods.
- Presented our results to professors and lecturers at the university.

Junior Intern

June 2016 – July 2016

3VI Limited

- Interned at a venture capital firm for six weeks
- Analysed accounts of various companies and judged what would be profitable investments for the firm
- Oversaw the workings of various industries, from oil production & children entertainment to sports betting & property investment

VOLUNTEERING

Soup Kitchen Volunteer

May 2019 – present

Children of Adam

- Distributed wasted food from supermarkets and provided fresh warm meals for homeless people in London

Welcome Week Helper

September 2016

LSESU

- Volunteered for the Student Union during welcome week for new students and assisted with activities around the university and to ultimately help them settle into the university and their new surroundings.

Subject Mentor

September 2012-June 2015

Adams' Grammar School

- Assisted students across all levels, providing personal tuition in core subjects; i.e. Mathematics, Chemistry and Physics

Teaching Assistant

January 2012 – April 2012

TLC College

Wolverhampton, UK

- Helped in the teaching of Mathematics and English, as well as help with preparation for entrance exams for secondary school at a centre for disadvantaged children in Wolverhampton.

EXTRA CURRICULAR ACTIVITIES

TEDxLSE and TEDxKCL

September 2015-February 2019

LSE and KCL

Wolverhampton, UK

- Represented the organising committee for three years where I worked as Marketing Director, Secretary and eventually elected President. I organised the Annual Conference and managed external communication and society events

Field Hockey

September 2010 – present

Wolverhampton Hockey Club,

Wolverhampton, UK

- Played for my local club and school teams, went on sports tour to Sri Lanka and captained my University's 3rd Team.

RAF Cadets

October 2009 – May 2015

Adams' Grammar School CCF

Wolverhampton, UK

- Ranked as Flight Sergeant in the Cadet Force and responsible for arranging lessons for younger cadets and lead night exercises.
- Awarded a Gliding Scholarship and achieved my Duke of Edinburgh Bronze and Silver Awards with the Cadet Force.

TECHNICAL SKILLS

Basic Proficiency: JavaScript, React, C++, MySQL, HTML

Intermediate Proficiency: Python, MATLAB, STATA, STAN

Advanced Proficiency: Microsoft Office Suite, R, L^AT_EX