

Emrys King

+44 07356 089594 • emrys.king25@imperial.ac.uk • [linkedin.com/in/emrys-king/](https://www.linkedin.com/in/emrys-king/)

Eligible for Graduate visa (without sponsorship) in the UK for two years after graduation

PROFILE

Postgraduate student at Imperial College London studying statistics with strong analytical and programming skills built through diverse portfolio of data-driven projects. Keenly interested in leveraging data science and machine learning to support business decisions. Seeking graduate position in data analytics.

EDUCATION

Imperial College London, London, England, UK

Sept 2025 – Sept 2026

Master of Science (MSc): Statistics

- Relevant modules: Computational Statistics and Machine Learning, Applied Statistics, Data Science
- Building ground-up understanding of modern statistics, data science, and machine learning
- Implementing knowledge of Python and R throughout course

Pomona College, Claremont, California, USA

Aug 2021 – May 2025

Bachelor of Arts (BA): majors in Mathematics (Statistics) and Spanish

- GPA 3.9/4.0 (equivalent to UK First), Pomona College Scholar (top 25% of students) 2 terms
- Relevant modules: Statistical Linear Modelling, Advanced Linear Algebra
- Achieved Distinction in Mathematics senior thesis for excellent mathematical content and communication of results
- Completed one-year intensive residential Spanish programme at Oldenburg Center for Languages

DATA & PROGRAMMING EXPERIENCE

Senior Thesis in Mathematics

Jun 2024 – May 2025

Pomona College, Claremont, California, USA

- Built database of 700 full-text statistics manuals, ensuring compliance with publishing licenses
- Employed text mining algorithms in Python and R including TF-IDF, sentiment analysis, topic modelling
- Delivered monthly oral presentations to supervisors and a 70-page comprehensive paper

Data Science for Social Impact (DSSI) Datathon

Apr 2025

Harvey Mudd College, Claremont, California, USA

- Co-created interactive shiny app in R, predicting tuberculosis incidence with socioeconomic factors
- Streamlined World Bank data corresponding to Millennium Development Goals for use in app
- Obtained 2nd place out of 20+ teams for rigor of conclusions and clarity of analysis

Final Year Statistics Project

Oct 2024 – Dec 2024

Harvey Mudd College, Claremont, California, USA

- Created linear models of life expectancy via blend of medical, geographic, and economic data
- Conducted analysis of model efficacy, accounting for both predictive accuracy and communicability
- Produced 40-page technical report and 15-minute pitch presentation

STEM Education Project

Oct 2023 – Dec 2023

Pomona College, Claremont, California, USA

- Designed and distributed survey measuring quality of student learning in science and maths mentor sessions, with response rate >70%
- Refined, analysed, and visualised survey results using R, resulting in poster presentation

Summer Undergraduate Applied Mathematics Institute

May 2023 – Aug 2023

Carnegie Mellon University, Pittsburgh, Pennsylvania, USA

- Collaborated with three colleagues researching zero-forcing processes and network data
- Presented biweekly to professors, research fellows, and students on developments
- Devised algorithm in Python/SAGE to model long-term behaviour of zero-forcing on networks

COMMUNICATION & INTERPERSONAL SKILLS

Humanities Studio Fellow <i>Pomona College, Claremont, California, USA</i> <ul style="list-style-type: none">Selected as one of six fellows out of 400+ students/faculty to contribute to interdisciplinary studiesBroadened understanding of pressing societal issues: misinformation and conspiracy theories, immigration and diaspora, racial injustice, digital privacy, and gender inequalityInitiated discussions on the role of AI and LLMs in universities, in both science and the humanitiesAdapted reports on statistics and machine learning to a non-technical audience	Aug 2024 – May 2025
Mathematics Mentor and Grader <i>Pomona College, Claremont, California, USA</i> <ul style="list-style-type: none">Assisted professors in teaching undergraduate-level mathematics: Calculus, Linear Algebra, Combinatorics, Number Theory & Cryptography, Statistical Linear ModelsDesigned revision materials, led weekly review, and graded homework for 30-80 students per semesterCoached students on proof-writing and mathematical thinking skills in one-on-one and group settings	Aug 2022 – May 2025
Department Liaison <i>Pomona College, Claremont, California, USA</i> <ul style="list-style-type: none">Assessed needs of ~100 mathematics undergraduates through weekly meetings and study hoursImplemented programming tailored to student needs, including internship/career panels & study breaks	Aug 2023 – May 2025
Teaching Assistant <i>1-2-1 Math Program (remote)</i> <ul style="list-style-type: none">Led team of 15 students through mathematics curriculum designed to bridge gaps in secondary schoolPromoted students' academic growth and analytical thinking via mathematical problem-solving	Jun 2022 – Jul 2022

AWARDS AND PRIZES

<ul style="list-style-type: none">Bruce Jay Levy Prize in Mathematics (Pomona College), a final-year prize given to a student with demonstrated commitment to collaboration and intellectual curiosity.	May 2025
<ul style="list-style-type: none">Graduate Research Fellowship Program Honourable Mention (National Science Foundation), for quality of research proposal, awarded to less than 20% of applicants.	Apr 2025
<ul style="list-style-type: none">Llewellyn Bixby Mathematics Prize (Pomona College), a second-year prize given to the most promising mathematics student.	May 2023
<ul style="list-style-type: none">NewGen Peacebuilder (Rotary International), a distinction given for implementation of a mental health curriculum in secondary schools in Birmingham, Alabama, USA.	Apr 2021

PROFESSIONAL AFFILIATIONS

<ul style="list-style-type: none">Sigma Xi (Scientific Research Honor Society)Sigma Delta Pi (Sociedad Nacional Honoraria Hispánica/National Collegiate Hispanic Honor Society)British Society for the History of Mathematics	
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SKILLS AND INTERESTS

<ul style="list-style-type: none">Languages: English (native), Spanish (fluent)IT/Programming skills: R and Python, MATLAB, LaTeX, Git/GitHub, and Microsoft OfficeInterests: member of Imperial College Book Club, Fellwanderers (Hiking Society), and History Society	
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References available upon request.