

# Emrys King

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

## PROFILE

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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

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<b>Imperial College London</b> , London, England, UK	Sept 2025 – Sept 2026
<b>Master of Science (MSc): Statistics</b>	
<ul style="list-style-type: none"><li>Relevant modules: Computational Statistics and Machine Learning, Applied Statistics, Data Science</li><li>Building ground-up understanding of modern statistics, data science, and machine learning</li><li>Implementing knowledge of Python and R throughout course</li></ul>	
<b>Pomona College</b> , Claremont, California, USA	Aug 2021 – May 2025
<b>Bachelor of Arts (BA): majors in Mathematics (Statistics) and Spanish</b>	
<ul style="list-style-type: none"><li>GPA 3.9/4.0 (equivalent to UK First), Pomona College Scholar (top 25% of students) 2 terms</li><li>Relevant modules: Statistical Linear Modelling, Advanced Linear Algebra</li><li>Achieved Distinction in Mathematics senior thesis for excellent mathematical content and communication of results</li><li>Completed one-year intensive residential Spanish programme at Oldenborg Center for Languages</li></ul>	

## DATA & PROGRAMMING EXPERIENCE

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<b>Senior Thesis in Mathematics</b>	Jun 2024 – May 2025
<i>Pomona College</i> , Claremont, California, USA	
<ul style="list-style-type: none"><li>Built database of 700 full-text statistics manuals, ensuring compliance with publishing licenses</li><li>Employed text mining algorithms in Python and R including TF-IDF, sentiment analysis, topic modelling</li><li>Delivered monthly oral presentations to supervisors and a 70-page comprehensive paper</li></ul>	
<b>Data Science for Social Impact (DSSI) Datathon</b>	Apr 2025
<i>Harvey Mudd College</i> , Claremont, California, USA	
<ul style="list-style-type: none"><li>Co-created interactive shiny app in R, predicting tuberculosis incidence with socioeconomic factors</li><li>Streamlined World Bank data corresponding to Millennium Development Goals for use in app</li><li>Obtained 2nd place out of 20+ teams for rigor of conclusions and clarity of analysis</li></ul>	
<b>Final Year Statistics Project</b>	Oct 2024 – Dec 2024
<i>Harvey Mudd College</i> , Claremont, California, USA	
<ul style="list-style-type: none"><li>Created linear models of life expectancy via blend of medical, geographic, and economic data</li><li>Conducted analysis of model efficacy, accounting for both predictive accuracy and communicability</li><li>Produced 40-page technical report and 15-minute pitch presentation</li></ul>	
<b>STEM Education Project</b>	Oct 2023 – Dec 2023
<i>Pomona College</i> , Claremont, California, USA	
<ul style="list-style-type: none"><li>Designed and distributed survey measuring quality of student learning in science and maths mentor sessions, with response rate &gt;70%</li><li>Refined, analysed, and visualised survey results using R, resulting in poster presentation</li></ul>	
<b>Summer Undergraduate Applied Mathematics Institute</b>	May 2023 – Aug 2023
<i>Carnegie Mellon University</i> , Pittsburgh, Pennsylvania, USA	
<ul style="list-style-type: none"><li>Collaborated with three colleagues researching zero-forcing processes and network data</li><li>Presented biweekly to professors, research fellows, and students on developments</li><li>Devised algorithm in Python/SAGE to model long-term behaviour of zero-forcing on networks</li></ul>	

## COMMUNICATION & INTERPERSONAL SKILLS

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

## AWARDS AND PRIZES

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- 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
- Graduate Research Fellowship Program Honourable Mention** (National Science Foundation), for quality of research proposal, awarded to less than 20% of applicants. Apr 2025
- Llewellyn Bixby Mathematics Prize** (Pomona College), a second-year prize given to the most promising mathematics student. May 2023
- 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

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- 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

## SKILLS AND INTERESTS

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- Languages: English (native), Spanish (fluent)
- IT/Programming skills: R and Python, MATLAB, LaTeX, Git/GitHub, and Microsoft Office
- Interests: member of Imperial College Book Club, Fellwanderers (Hiking Society), and History Society

References available upon request.