

Emma Landry

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Education

PhD in Biostatistics (4.0 GPA)

Los Angeles, CA, USA

UNIVERSITY OF CALIFORNIA, LOS ANGELES

Sep. 2021-

- Advanced classes: Multivariate statistics; probability theory; Bayesian methods, computation, recent advancements; graphical models.
- Advisor: Prof. Donatello Telesca

MSci in Mathematics (First Class Honours)

London, United Kingdom

IMPERIAL COLLEGE LONDON

Sep. 2017 - Jun. 2021

- Relevant Courses: Methods for Data Science, Statistical Modelling, Scientific Computation, Applied Probability, Time Series, Computational Linear Algebra, Stochastic Simulation, Machine Learning, Bayesian Methods, Statistical Theory
- Thesis: Exploring the effects of Trump support and vaccine hesitancy on the SARS-CoV-2 time-varying reproduction number

Skills

Programming R, Python, SAS, Matlab, Julia

Languages French (Native), English (Native), Polish (Native), Spanish (C1), Italian (B1), Mandarin (HSK4)

Other Technologies \LaTeX , Git, Linux Command Line, MS Office

Experience

Graduate Student Researcher (GSR)

Los Angeles, CA, USA

UCLA- DEPARTMENT OF BIOSTATISTICS

Oct. 2021-

Research in Bayesian methods for functional data analysis with Prof. Donatello Telesca.

Mentor

Remote

HARVARD- OPENBIO LABORATORY

Jun. 2024- Aug. 2024

Mentorship of a high school student on an original research project.

Teaching Assistant

Los Angeles, CA, USA

UCLA- DEPARTMENT OF BIOSTATISTICS

Sep. 2022- Jun. 2023

Teaching assistant for the BIostat 250 A, B, C sequence, the second year PhD qualifying exam classes. Responsibilities include leading discussion sessions and grading of assignments.

Peer Tutor

London, United Kingdom

IMPERIAL COLLEGE LONDON- DEPARTMENT OF MATHEMATICS

Oct. 2020- Mar. 2021

Lead weekly sessions with first-year students to help them with their courses and solve problems in a group; support them in their transition to university.

Undergraduate Student Researcher (UROP)

London, United Kingdom

IMPERIAL COLLEGE LONDON- DEPARTMENT OF MATHEMATICS

Jun. 2020- Oct. 2020

Project under the supervision of Dr. Seth Flaxman in statistical machine learning. Worked in a team of researchers on the paper titled "Quantifying U.S. Gun Violence Contagion: A Multi-City Study" where gun violence in U.S. cities is modelled using a spatio-temporal Hawkes model, whose parameters are determined using MCMC. Developed in R a KDE, and a Time Series GLM model that allow to bound and estimate some of parameters before inference.

Honors and Awards

2024	ISBA 2024 World Meeting Travel Award (NSF Funded)	
2022	UCLA Summer Mentored Research Fellowship (SMRF)	
2021-24	UCLA Graduate Division Fellowship	
2020	1st Prize UROP 3 Minute Thesis Competition	Faculty awarded using University of Queensland 3MT judging criteria
2020	Chris Champion Prize	Annual award for excellent achievement in Mathematics and Sport to an undergraduate student
2020	Department of Mathematics UROP Funding	Grant provided for the undergraduate research opportunity
2020	Union Colour	Awarded for significant and repeated outstanding contributions to the student experience at Imperial
2019	Winton Capital Management Prize for Mathematics	Awarded to the best second year project in the department

Extracurricular Activity

Vice-President, Academic Affairs

Los Angeles, CA, USA

UCLA GRADUATE STUDENT ASSOCIATION

Jun. 2023-

Graduate Student representative to the UCLA Academic Senate; sitting on the Executive Board, Graduate Council and Legislative Assembly; and appointed graduate students to other committees. Additionally, acted as the liaison with the Academic Senate leadership, Dean of Graduate Education, and Executive Vice Chancellor and Provost to improve the graduate student experience. During the term, passed a proposal to change the policy on Incomplete notations on student transcripts; helped establish a bridge fund for students switching advisors; organized the first Graduate Student Research Showcase; initiated the process of acquiring a campus-wide Overleaf premium subscription.

Director of Discretionary Funds

Los Angeles, CA, USA

UCLA GRADUATE STUDENT ASSOCIATION

Oct. 2022- Jun. 2023

Responsible for administering, funding, and managing GSA's Discretionary Funds to registered graduate and professional student groups. Other responsibilities include collaboration with the GSA cabinet to promote student groups; assistance and administrative support to the Director of Finance; attendance at the GSA cabinet meetings; maintaining financial guidelines and educating councils on these guidelines.

Vice Chair Individual Sports

London, United Kingdom

IMPERIAL COLLEGE UNION- SPORTS SECTOR

Aug. 2019- Jul. 2020

Liaised with 19 sports club Presidents and Treasurers to provide guidance; oversaw the club finances, approving expenditure and managing annual budgeting; worked with the committee to improve sports clubs' experience; organized the 4 ACC Sports Nights, the largest student events at the Union.

Treasurer and Second Team Captain

London, United Kingdom

IMPERIAL COLLEGE UNION- LAWN TENNIS CLUB

Aug. 2018- Jul. 2019

- Treasurer responsibility: managing the club's finances (over £35,000 in funds); writing club's budget for the following year as well as submitting grant application; involvement in general running of the club, in particular helping with the organization of social events
- Captain responsibility: running trials and training; responsibility for teams and scores during fixtures; encouraging team spirit and bonding