

# Emma Landry

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## Education

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### 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

### French OIB Scientific Baccalaureate with American Option (Mention TB, 19.4/20)

Paris, France

ECOLE JEANNINE MANUEL

Sep. 2003 - Jun. 2017

## Skills

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**Programming** R, Python, SAS, Matlab

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

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

## Experience

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### 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.

### 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

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2022	<b>UCLA Summer Mentored Research Fellowship (SMRF)</b>	
2021-22	<b>UCLA Graduate Division Fellowship</b>	
2020	<b>1<sup>st</sup> Prize UROP 3 Minute Thesis Competition</b>	Faculty awarded using University of Queensland 3MT judging criteria
2020	<b>Chris Champion Prize</b>	Annual award for excellent achievement in Mathematics and Sport to an undergraduate student
2020	<b>Department of Mathematics UROP Funding</b>	Grant provided for the undergraduate research opportunity
2020	<b>Union Colour</b>	Awarded for significant and repeated outstanding contributions to the student experience at Imperial
2019	<b>Winton Capital Management Prize for Mathematics</b>	Awarded to the best second year project in the department
2014-17	<b>Jeannine Manuel Award</b>	Awarded to the top 10% of students in the year

## Extracurricular Activity

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### Vice-President, Academic Affairs

*Los Angeles, CA, USA*

UCLA GRADUATE STUDENT ASSOCIATION

*Jun. 2023-*

Graduate Student representative to the Academic Senate, whose responsibilities include: student appointments to committees; sitting as a voting member on Executive Board and Graduate Council; proposal of new policy; chairing the Graduate Writing Center Oversight Committee; collaboration with the Division of Graduate Education; help with the running of GSA as an organization. Goals for the year include: amending the policy on incomplete notation; improving NRST funding for international students; obtaining Overleaf premium access to everyone at UCLA; and introducing a bridge fund for students switching advisors.

### 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 £35,0000 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