

# Mattéo Larrodé

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## Education

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### Oxford Internet Institute, University of Oxford

*MSc Social Data Science*

*Oct. 2024 – Aug. 2025*

- Courses included Applied Machine Learning, Natural Language Processing, Data Analytics at Scale, Research Design for Social Data Science, and Applied Analytical Statistics.
- Awarded a full scholarship from the Oxford Internet Institute Shirley Scholars Fund.
- **Thesis:** Extracting Social Determinants of Health from British Red Cross Referrals using Large Language Models.

### University College London

*BSc Politics, Philosophy and Economics with Social Data Science*

**First Class (76%)**

*Sep. 2020 – May 2024*

- Courses included Data Analysis, Quantitative Research Methods, Mathematics for Economics, Microeconomics, Macroeconomic Theory and Policy, Social Networks Analysis, Spread of Conflict in International Relations.
- Year Abroad (2022–2023) at George Washington University: studied Data Analytics for International Affairs, Visualising and Modelling Politics, Data Mining in Python, and Emerging Technologies.
- **Dissertation:** Impoverishing Families? Fixed-Effects Analysis of the Impact of Universal Credit on Child Poverty and Lone Parent Households (78%).

## Experience

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### Data Scientist (Part-time)

*Strategic Insight & Foresight, British Red Cross*

*Jul. 2023 – Apr. 2024*

- Contributed to the Health Inequalities Explorer, an R Shiny web app for operational decision-making: data scraping, cleaning, analysis, feature development, and bug fixes.
- Improved the “humaniverse” suite of R packages by integrating UK health inequalities data and handling spatial datasets in line with project standards.
- Worked with the Strategic Insight and Foresight team to support data-informed decision-making through clear and actionable outputs.

### Data Scientist (Volunteer)

*Delivraide, Equipage Solidaire*

*Dec. 2022 – Feb. 2024*

- Oversaw data work for Delivraide, a volunteer-run initiative that delivered over 10,000 free food and supply kits to students in 13 French cities.
- Recruited and supported two volunteer analysts, helping structure their work and setting up simple workflows for tracking deliveries and stock.
- Built basic tools to collect and analyse delivery data from the app, helping the team identify delays and reduce delivery time for urgent cases by 25%.

### Research Assistant

*Elliott School of International Affairs, George Washington University*

*Sep. 2022 – May 2023*

- Worked under the supervision of Dr. Laila Sorurbakhsh to support a \$250k National Science Foundation grant application through literature reviews, methodological feedback, and statistical analyses in R.
- Automated data collection from public APIs and cleaned the output for use in exploratory and inferential analysis.

## Publications

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Guler, H., Larrodé, M., Tan, J., Thomas, M. G., & Musah, A. (2025) **Spatial assessment of wildfire risk in England & Wales: Coupling social vulnerability with predicted wildfire susceptibility.**

*Forthcoming*

Larrodé, M. (2025) **Detecting conflict-induced building damage in Gaza using Sentinel-1 SAR time series and machine learning.**

*Forthcoming*

## Additional Skills

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**Languages:** French (Native), English (Proficient - C2).

**Programming:** Python (Pandas, PyTorch, NumPy, Sklearn, Transformers); R (tidyverse, Shiny); Git; QGIS.