

# NIAL PERRY

## Data and Statistics for Environmental Applications

📍 Zürich, Switzerland    🇬🇧 British, Irish    🐔 PerryChicken1

## EDUCATION

PhD, Optimisation for Forestry  
**Eidg. Forsch. WSL, Zürich, Switzerland**

📅 November 2024 - Present

- Developing an optimisation routine for multifunctional forestry on a single-tree level.

MSc, Statistics  
**ETH Zürich, Zürich, Switzerland**

📅 September 2022 - October 2024      Final Grade: 5.38 / 6.00

- Focus on classical statistics, data science and environmental applications.
- MSc thesis: supporting the global estimation of above-ground biomass density using GEDI satellite.

BSc, Mathematics with French  
**University of Manchester, Manchester, UK**

📅 September 2018 - June 2022      Final Grade: 80%

- Mathematics major: focus on statistics and pure mathematics.
- French minor: language, literature, philosophy.

A-Levels  
**Eltham College, London, UK**

📅 September 2016 - June 2018

- Mathematics (A\*), Economics (A) and French (A)

## PROFESSIONAL EXPERIENCES

Statistician  
**Eidg. Forsch. WSL, Zürich, Switzerland**

📅 September 2023 - October 2024

- WSL is the Swiss Federal Institute for Forest, Snow and Landscape Research.
- Conducted statistical analyses part-time in the Sustainable Forestry team.

Business Analyst Intern  
**Humatica, London, UK**

📅 June 2022 - June 2023

- Humatica is a management consultancy in Private Equity.
- Summer Intern 2022, then Working Student in data engineering.

Business Analyst Intern  
**Amazon, Paris, France**

📅 January - July 2021

- Amazon is a global leader in cloud computing and e-commerce.
- Reported key metrics for an alternative logistics project.

Economist Intern  
**Jacobs, London, UK**

📅 June - August 2020

- Jacobs is an S&P 500 engineering company.
- Strategic consulting for public transport projects.

## UNIVERSITY POSITIONS

President  
**Data Science Society**

📅 June 2021 - May 2022

- Led a committee creating data science events: lectures, workshops, socials, corporate events.

President  
**Maths Society**

📅 May 2019 - May 2020

- Led a committee creating maths events: lectures, workshops, socials, corporate events.

Maths Peer Mentor  
**Peer-Assisted Study Sessions**

📅 September 2019 - May 2020

- Devised fun activities to teach 1st year maths students.

Community Coordinator  
**Residents' Association**

📅 September 2018 - September 2019

- Organised charitable initiatives (e.g. collecting for a food bank).

## LANGUAGES

English	C2
French	C1
German	B1

## VOLUNTEERING

Tutor  
**École Thomas Mann, Paris, France**

📅 February - May 2021

- Helped a group of disadvantaged year 8 students with homework every week.

Amrita Live-in-Labs Volunteer  
**Amrita University, Tamil Nadu, India**

📅 July - September 2019

- Summer project developing biogas technology for a rural village in India.

Correspondent  
**The Organisation for World Peace, Online**

📅 June - December 2020

- Social justice journalism.

# RESEARCH

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Peer-reviewed publications:

- [1] Bont, L. G., Gemperle, F., **Perry, N. T.**, Werder, M., Schweier, J. "Derivation of a nationwide wall-to-wall map of fuelwood potential". In: *Journal of Cleaner Production* 494 (2025). DOI: 10.1016/j.jclepro.2025.145010.
- [2] **Perry, N.**, Pedersen, P. P., Christensen, C. N., Nussli, E., Heinonen, S., Dagallier, L. G., Jacquat, R., Horstmann, S., Franck, C. "Detecting urban PM2.5 hotspots with mobile sensing and Gaussian process regression". In: *npj Clean Air* 1.1 (2025). DOI: 10.1038/s44407-025-00038-1.
- [3] Schweier, J., **Perry, N. T.**, Werder, M., Bont, L. "Lessons Learned from a Case Study in Switzerland: Use of a Double-Hitch Carriage for Yarding". In: *Croatian journal of forest engineering* 47.1 (2025). DOI: 10.5552/crojfe.2026.4065.
- [4] Zimmermann, S., Kurz, D., Thrippleton, T., Mey, R., **Perry, N. T.**, Posch, M., Schweier, J. "Does Soil Acidification Matter? Nutrient Sustainability of Timber Harvesting in Forests on Selected Soils Developed in Sediments of the Early vs. Late Pleistocene". In: *Forests* 15.7 (2024). DOI: 10.3390/f15071079.