

JEROME MAYAUD

Data science. Strategy insights. Product design. Social impact.

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Scotland, United Kingdom

PROFESSIONAL EXPERIENCE

Director of Data Science

Spare Labs | Vancouver, CA | 2019 – Current

- Leadership:** Managing the small but mighty Data Science team.
- Data strategy:** Defining metrics and developing internal tools to enable data fluency across the business.
- Machine learning:** Models to build insights from massive travel databases, and to drive future business growth.
- Product management:** Led a team of engineers and designers to build a cutting-edge transit planning and simulating tool.
- Impact economics:** Consultative reporting to empower decision-making along financial, environmental and social dimensions.
- Tech stack:** Python, R, SQL, Python scientific computing stack (NumPy, SciPy, scikit-learn, pandas, ...), cloud computing (Google Cloud Platform), data pipelining (Stitch, dbt), CI/CD (Github).

Postdoctoral Research Fellow

University of British Columbia | Vancouver, CA | 2017 – 2019

- Urban data science:** Computational simulation, big data, stakeholder engagement with transit agencies and governments.
- Population health and epidemiology:** Research linking the built environment to behaviour and health outcomes.
- Research mentorship:** 5 PhD students, 3 Masters students.

Visiting Scholar in Artificial Intelligence

University of Southern California | Los Angeles, US | 2018

- AI for social good:** Modelling information spread through homeless youth networks in LA, and predicting wildlife poaching risk in Africa.

Tour Manager and Trainer

American Institute for Foreign Study, AIFS | London, UK | 2012 – 2017

- Creative education delivery:** Managing cultural and educational tours for large groups of US high school students across Europe.

College Lecturer and Tutor

University of Oxford | Oxford, UK | 2014 – 2017

- Academic teaching:** Geography tutorials to UG/Masters students.

Parliamentary Postgraduate Fellow

Parliamentary Office for Science & Technology | London, UK | 2016

- Parliamentary policy briefings** on reforms to freshwater abstraction.

Impact Assessment Researcher

World Bank | Khanbogd, Mongolia | 2016

- Field research** studying impacts of a mine on herding livelihoods.

Consultancy Intern

Sancroft International | London, UK | 2013

- Environmental consulting** for global companies.

VOLUNTEERING and NON-PROFIT

Impact Strategist | Aban Adventure Learning Community | 2023 –

Scientific Advisor | The Polar Academy | 2022 –

Board Member at Large | Elektra Women's Choir | 2019 – 2021

Homeless Shelter Advisory Committee | Streetohome | 2018 – 2020

EDUCATION

PhD, Environmental Science

University of Oxford | 2013 – 2017

Thesis: Modelling effects of climate and land use change on desert landscapes. (NERC Fellow, Mann Senior Scholar)

MPhil, Polar Studies

University of Cambridge | 2011 – 2012

Thesis: Simulating the hydrology of the Greenland Ice Sheet. (Derek Brewer MPhil Scholar)

BA Hons, Geography

University of Oxford | 2008 – 2011

First Class. Placed top of year group. (Gibbs Prize, H.O. Beckett Prize, John House Prize, Worcester College Scholar)

SELECTED PUBLICATIONS

25+ academic papers | [Google Scholar](#)

[Nature Scientific Reports](#) | [Response of the Kalahari Desert to climate/land use change](#)

[Comp. Env. Urb. Systems](#) | [Future access to essential services in a growing smart city](#)

[Spare Data](#) | [Why is transit collapsing?](#)

[Medium](#) | [Addiction in Metro Vancouver](#)

[Spare Data](#) | [The diversity data gap](#)

[The Conversation](#) | [At-home EV charging](#)

[POSTnote](#) | [Reform of freshwater abstraction](#)

IN THE MEDIA

[What Comes Next? podcast](#) | [Tech vs The Coronavirus \(#27\)](#)

[Unreported World, Channel 4](#) | [Dominican Republic: Baseball Dreams](#)

[EoS @ AGU](#) | [A new tool for understanding landscape evolution in drylands](#)

AND MORE

[French, English:](#) Fully bilingual
[German:](#) Proficient (written, spoken)

[@jeromemayaud](#)

[jeroaming.com](#)

[linkedin.com/in/jerome-mayaud-3030b139/](#)