

JAMES MOULTRIE

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Experience

University College London

London, UK

PhD in Experimental Psychology

September 2025 - 2029

- Doctoral studies under Prof Hugo Spiers' in the Spatial Cognition Lab.
- Research on Spatial Navigation and Environmental Neuroscience with industrial partners including AutoDesk, Google Deepmind, and JLL.

University of French Polynesia

French Polynesia

Researcher in AI and Energy

September 2024 - July 2025

- Led a study of hydrogen integration into energy networks in French Polynesia.
- Developed 2 simulation tools for personal electric vehicle fleets and hydrogen-powered public transport, enabling optimisation of kWh demand and GHG emissions.
- Literature review, statistical projections, scientific writing, presentation of results.

Le Wagon

Various locations

Freeland Data Science and AI Teacher

December 2023 - Ongoing

- Delivered Data Science bootcamps, providing various courses and lectures for over 100 students. Over 250 hours teaching and 750 hours supervising.
- Consulted, lectured, and assisted companies such as Michelin, ABB, Pierre Fabre, Stellantis. Over 15 clients and 500 hours instructed across France, Europe, and US.
- Taught and mentored students and clients through remote Python and Data Science basics (from scratch). ~80 people total.

Paradox

Freelance

Data Scientist

July - December 2023

- Prototyped and delivered 5 AI Proofs of Concept and Minimum Viable Products leveraging LangChain, enhancing project efficiency by 20%.
- Conducted in-depth Exploratory Data Analyses across diverse datasets using Python, extracting actionable insights and presenting findings to stakeholders, driving data-informed decision-making.

University of Bordeaux, INSERM

France

Research Engineer in AI and Health

April - July 2023

- Designed 3 ML solutions for health research and epidemiology-oriented use cases.
- Engineered a data pipeline for cleaning, anonymizing, and preparing anamnesis data, streamlining data readiness and increasing processing power tenfold.
- Fine-tuned LLMs to classify anamneses with 97%+ accuracy, optimizing hospital emergency service workflows and reducing patient triage time.

Education

Le Wagon Coding School

Bordeaux, France

Data Science and AI bootcamp

January – March 2023

- 360-hour intensive Python for Data Science and AI coding bootcamp.
- Statistics (Scipy, statsmodels), Data Analytics (SQL, BigQuery, Pandas, Numpy), Data Visualisation (seaborn, matplotlib, Looker, PowerBI).
- Machine Learning (sklearn), Deep learning and AI (TensorFlow, Keras).
- Created Data Products with Google Cloud Platform, ML Flow, Flask, Heroku and Streamlit.

University of Amsterdam

Amsterdam, Netherlands

MSc Cognitive Neuroscience

September 2019 – April 2022

- 10-month internship at the Max Planck Institute for Human Development in Berlin.
- Literature thesis in Environmental Neuroscience, "Why do we find Nature beautiful? Aesthetics, Restoration, and the Brain", grade 9/10.
- Experiment design, data collection, analysis, scientific writing, interdisciplinarity
- Overall grade: 7.6/10.

Universiti Sains Malaysia

Malaysia

Primatology field intern

January – June 2019

- Behavioural study of wild macaques (*Macaca nemestrina*) in the rainforest of Malaysia.

University of Poitiers

Poitiers, France

BSc Human Geography

September 2015 – May 2018

- 3rd year Student Exchange in Montréal, Canada.
- Overall grade: 15/20 (with Honors).

Skills and Interests

Languages

French: Native | English: Native | Spanish: B2 | Portuguese: B1 | German: B1

Technical

Python, Pandas, SQL, LangChain, Streamlit, Sklearn, PyTorch, VR (Unity)

Soft skills

Creativity, Leadership, Public Speaking, Pedagogy, Scientific Writing, Cross-disciplinarity

Interests

Jazz piano, Autodidactism, Ethology, Behavioural, and Cognitive Science, Geography, Geopolitics, Neurourbanism, Chess