Philippe Morere

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Head of Data Scientist/Tech Lead with PhD, fluent in English and French with varied industrial experience. Enjoys **problem solving** with **cutting-edge machine learning**. 3-year experience managing/mentoring a team of 6+ data scientists. Excellent **theoretical foundations**, with a **PhD** in statistical learning and optimisation from the University of Sydney. Very strong technical and **hands-on** skills, with a **software engineering (Masters) degree**, multiple software programming experiences and open-source software contributions.

Experience

Head of Data Science, Tech Lead
Jun'20 – Present

Data science R&D lab: banking security (anomaly detection), job recommendation (NLP), aerial surveillance (computer vision), sports betting (whole Mlops pipeline).
- Management and mentoring of 6+ data scientists (agile, kanban, self-organised)
- **Close work with data engineers** for architectural and design choices
- R&D with transition to **production focus**
- Teaching & presentations (Wild code school, datacraft). Team building.

Post-doctoral Researcher
Jan'19 – May'20
University of Sydney

For national energy provider (Origin): R&D of modelling and data fusion methods for geological phenomena, automated decision-making to assist experts.
- **Direct communication** with client, adapting to evolving requirements
- PhD **student supervision**, providing motivation and technical guidance

Research Assistant
Jan'18 – Jan'19
University of Sydney

For the Australian defence department: R&D of reinforcement learning techniques for electronic warfare.
- **Agile methodology**, regular client objective reevaluation
- **Client satisfied** with the proposed solution and deliverable, contract renewed

Research Engineer
Jan'14 – Jun'15
IMDEA (Madrid)

Graph and network analysis **software development** for group Zed.
- Applied machine learning and natural language processing
- Development of algorithms to visualise **big graphs and networks**

TA & Tutoring
Mar'17 – Dec'18
University of Sydney

Multiples Machine Learning and Data Science classes, Master's and Bachelor's level.
- Group **Teaching** and individual consultations, exam/project creation and scoring.
- **Reevaluating and adjusting** course curriculum for future years

Education

PhD
2015 – 2019
University of Sydney

Machine Learning (statistical learning and optimisation), reinforcement learning, planning, with robotics applications.
- **10+** publications in **top-ranked international conferences** (NIPS, AISTATS, CORL)
- Synthesis, oral and written presentation of scientific work
- **Team management** and multiple **collaborations**
- **Open-source software** development and publication

Engineering degree
2011 – 2013
Enseirb (Bordeaux)

Computer science and Telecommunications, specialised in software development.
- Valedictorian for multiple years
- Thales team management price winner (7 people, 6 months)

Skills and Languages

Optimisation, Statistics, RL, Robotics, https://github.com/PhilippeMorere
Python, C++, Java, Linux, pen-testing & reverse engineering, scrapping
Sklearn, Pytorch, Pandas, Numpy, OpenCV, Pytest, Docker, PostgreSQL, mongoDB, Argo, AWS

French: Native
English: Bilingual
Spanish: Intermediate