


Ryan Pégoud

London, England
Citizenship: French, German

 Website  Contact  LinkedIn  GitHub

EDUCATION

Computational Statistics and Machine Learning MSc. UCL, LONDON, ENGLAND
09/2024 – 09/2025

Curriculum: Supervised Learning, Graphical Models, Bayesian Deep Learning, Open-Endedness and General Intelligence, Statistical Models and Data Analysis, Applied Machine Learning, Reinforcement Learning

French Engineering Degree EPF ENGINEERING SCHOOL, MONTPELLIER, FRANCE
03/2019 – 07/2023

Graduated with **First-Class Honours** (*Mention Très Bien*)

- Ranked 9/149 (**top 6%**)
- MSc Average: 16.92/20 (**84.6%**)
- BSc Average: 13.47/20 (67.4%) *Achieved despite challenging personal circumstances (bereavement)*

French National Baccalauréat, Scientific Section LYCÉE NEVERS, MONTPELLIER, FRANCE
09/2015 – 07/2018

Obtained with **High Honours** (*Mention Bien*)

ACADEMIC APPOINTMENTS

Pedagogical Tutor EPF ENGINEERING SCHOOL, MONTPELLIER, FRANCE
01/2024 – 06/2024

Responsibilities: Supervising and mentoring an MSc student during their Master's thesis.
Topic: Retrieval-Augmented Generation for Helicopter Certification. *Airbus Helicopter*

Lecturer, Module leader (Professeur Vacataire) EPF ENGINEERING SCHOOL, MONTPELLIER, FRANCE
09/2023 – 01/2024

Course: Natural Language Processing (NLP)
Responsibilities: Module Leader, Module Lecturer, Exam-Setting for a cohort of **25 MSc students**.

PROFESSIONAL EXPERIENCE

Data Scientist (Master thesis) BMW, MUNICH, GERMANY
02/2023 – 07/2023

Master Thesis Title: "Time Series Based Anomaly Detection For Fleet Connectivity"
Grade: 20/20 (**100%**)

Data Scientist (Remote Student Job) CEWE STIFTUNG & CO. KGAA, FABRÈGUES, FRANCE
06/2022 - 07/2022

Topic: Creation of an aspect-based sentiment analysis pipeline for multilingual customer feedback analysis

Data Scientist (Bachelor thesis)

CEWE STIFTUNG & CO. KGAA, OLDENBURG, GERMANY

07/2021 - 01/2022

Bachelor Thesis Title: "Multilingual Text Classification using Transformers"

Grade: 17.67/20 (**88.4%**)

PUBLICATIONS

WORKSHOP PUBLICATIONS

1. **Ryan Pégoud**, Thibault Lahire. "**Idea: Better Gradient Steps for Deep On-Policy Reinforcement Learning.**" *Aligning Reinforcement Learning Experimentalists and Theorists Workshop at the International Conference on Machine Learning (ICML)*, 2024. Vienna, Austria.

PREPRINTS

2. Ryan Sullivan, **Ryan Pégoud**, Ameen Ur Rehman, Xinchun Yang, Junyun Huang, Aayush Verma, Nistha Mitra, John P Dickerson. "**Syllabus: Curriculum Learning Made Easy**". *Arxiv*, <https://arxiv.org/abs/2411.11318>

PEER-REVIEWED ARTICLES

- Rainbow: The Colorful Evolution of Deep Q-Networks
Published on July 13, 2024 · In Towards Data Science
- A Practical Guide to Proximal Policy Optimization in JAX
Published on May 1, 2024 · In Towards Data Science
- A Gentle Introduction to Deep Reinforcement Learning in JAX
Published on Nov 21, 2023 · In Towards Data Science
- Implementing a Transformer Encoder from Scratch with JAX and Haiku
Published on Nov 7, 2023 · In Towards Data Science (*Editor's picks*)
- Vectorize and Parallelize RL Environments with JAX: Q-learning at the Speed of Light
Published on Oct 15, 2023 · In Towards Data Science
- Temporal-Difference Learning and the importance of exploration: An illustrated guide
Published on Sep 23, 2023 · In Towards Data Science (*Editor's picks, Data Science and ML: Must-Reads*)

OPEN-SOURCE CONTRIBUTIONS

SYLLABUS: SYNCHRONIZED CURRICULUM LEARNING FOR RL AGENTS

- Implementation of learning curricula over co-players in multiagent games:

STOIX: DISTRIBUTED SINGLE-AGENT REINFORCEMENT LEARNING END-TO-END IN JAX

- Implementation of Rainbow DQN (*Hessel et al. 2017*).
- Creation of a documentation website.

LANGUAGES

- **French:** Native
- **English:** Fluent (Toefl: 107/120, Toeic: 975/990)
- **German:** Intermediate + (two 6-month internships in Munich and Oldenburg)
- **Spanish:** Intermediate (6 years, throughout middle and high school)