

# Ryan Pégoud

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## EDUCATION

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### Computational Statistics and Machine Learning MSc.

UCL, LONDON, ENGLAND

09/2024 – 09/2025

(Set to start on the 23<sup>rd</sup> of September 2024.)

### Diplôme Grandes Écoles

EPF - ECOLE D'INGÉNIEURS, MONTPELLIER, FRANCE

03/2019 – 07/2023

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

- Ranked 9/149 (6)
- MSc Average: 16.92 (84.6%)
- BSc Average: 13.47 (67.4%)

### French National Baccalauréat, Scientific Section

LYCÉE NEVERS, MONTPELLIER, FRANCE

09/2015 – 07/2018

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

## ACADEMIC APPOINTMENTS

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### Lecturer (Professeur Vacataire)

EPF - ECOLE D'INGÉNIEURS, MONTPELLIER, FRANCE

09/2023 – 01/2024

Course: Natural Language Processing (NLP)

Responsibilities: Module Leader, Module Lecturer, Exam-Setting for a class of 25 MSc students

## PROFESSIONAL EXPERIENCE

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### 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

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### 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.

PEER-REVIEWED ARTICLES

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- 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

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## SYLLABUS: SYNCHRONIZED CURRICULUM LEARNING FOR RL AGENTS

- Implementation of learning curricula over co-players in multiagent games:
  - Self-Play, *Tesauro, 1995*
  - Fictitious Self-Play, *Heinrich et al., 2015*
  - Prioritized Fictitious self-play, *Vinyals et al., 2019*

## 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

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- **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)