

Pau de las Heras Molins

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I am seeking a PhD position doing research on preference relations in multi-objective systems, game theory, reinforcement learning and formal verification for modeling control of autonomous systems.

PUBLICATIONS

- 2026 Pau de las Heras Molins, Beyazit Yalcinkaya, Lasse Peters, David Fridovich-Keil, and Georgios Bakirtzis, "Controllability in preference-conditioned multi-objective reinforcement learning", *Accepted at International Conference on Neuro-Symbolic Systems (NeuS)*
- 2025 Pau de las Heras Molins, Eric Roy-Almonacid, Dong Ho Lee, Lasse Peters, David Fridovich-Keil, and Georgios Bakirtzis, "Approximate solutions to games of ordered preference", *Accepted at IEEE International Conference on Intelligent Transportation Systems (ITSC)*

TALKS

- 2026 "Controlling multi-objective reinforcement learning agents through preference", *University of Michigan in Inigo Incer's group, Iowa State University in Cody Fleming's group*

EDUCATION

- 2025 IEEE RAS Summer School on Multi-Robot Systems, *Czech Technical University*
- 2024–26 MSc in Machine Learning & Cybersecurity, *Universitat Politècnica de Catalunya (UPC)*
- 2018–19 Erasmus, *Eidgenössische Technische Hochschule Zürich (ETH)*
- 2015–19 BSc in ICT Systems Engineering, *Universitat Politècnica de Catalunya (UPC)*

EXPERIENCE

- Institut Polytechnique de Paris*
- 2026 Research Engineer
Funded by the "Architecture des Systèmes Complexes" chair, part of INFRES at Télécom Paris.
Universitat Politècnica de Catalunya (UPC)
- 2023–24 Research Associate
Worked on the research project "MobileWuR: Pushing the limits of energy efficiency in mobile devices through wake-up radio solutions".
- 2021–23 Adjunct Professor
Taught courses on informatics, systems integration, applications and services on the internet, and embedded systems.
UVE Solutions
- 2024–25 Software Engineer
Develop and maintain backend software for the main data ingestion, storage and exploitation pipeline. Deploy and manage services for external consumption.
- 2019–24 Technical Consultant Developer
Implemented software for data extraction, transformation, and loading (ETL). My responsibilities also included requirements gathering and customer management.