

MIGUEL SUAU

Flat 6 John Parry Court, Hare Walk, London N1 6RN, United Kingdom.

+34 626516338 ◊ miguel.suau@gmail.com

EDUCATION

PhD student in Artificial Intelligence

September 2018 - Now

Delft University of Technology

- ERC Project INFLUENCE: Influence-based decision-making in uncertain Environments.
- Investigating novel ways of abstraction to find lower dimensional representations of complicated systems.
- Modelling the influence that the different components in a dynamical system exert on each other.

Master of Science in Mathematical Modelling and Computation

September 2016 - July 2018

Technical University of Denmark

- Focus area: Machine learning and Scientific computing
- Completed 120 ECTS in the fields of machine learning, reinforcement learning, signal processing, multivariate statistics, data analysis, time series analysis, high performance computing, model predictive control, dynamical systems, numerical optimization.
- GPA: 11.08/12.00

Master's Thesis

January 2018 - July 2018

Reinforcement learning and multi-agent systems

Unity Technologies, Cognitive Systems DTU

- Presented [tutorial on Unity ML-Agents in CIG, Maastricht, August 2018](#)

Bachelor's degree in Energy Engineering

Sep 2010 - Feb 2015

Technical University of Madrid

School of Industrial Engineering

- Focus area: Energy technologies
- Completed 240 ECTS in the fields of energy systems, nuclear power, thermodynamics, fluid mechanics, electrical networks and systems, environmental engineering and sustainability.

Bachelor's Thesis

July 2015 - Feb 2015

Design and construction of a small scale wind turbine

Electrical Engineering Department, ETSII

- Cum Laude

SELECTED PUBLICATIONS

M. Suau, J. He, M. M. Çelikok, M. T. J Spaan, F. A. Oliehoek. [Distributed Influence-Augmented Local Simulators for Parallel MARL in Large Networked Systems](#). Preprint.

M. Suau, J. He, M. T. J Spaan, F. A. Oliehoek. [Influence-Augmented Local Simulators: A Scalable Solution for Fast Deep RL in Large Networked Systems](#). ICML 2022.

J. He, M. Suau, H. Baier, M. Kaisers, F. A. Oliehoek. [Online Planning in POMDPs with Self-Improving Simulators](#). IJCAI 2022.

M. Suau, J. He, M. T. J. Spaan, F. A. Oliehoek. [Speeding up Deep RL through Influence-augmented Local Simulators](#). AAMAS 2022.

M. Suau, E. Congeduti, J. He, R.A.N. Starre, A. Czechowski, F. A. Oliehoek. [Influence-aware Memory Architectures for Deep Reinforcement Learning in POMDPs](#). Neural Computing and Applications, Springer Journal, 2022.

J. He, M. Suau, F.A. Oliehoek. [Influence-augmented Online Planning for Complex Environments](#). NeurIPS 2020.

TEACHING AND SUPERVISION

Lecturer in Deep Learning

Jan 2019 - June 2022

Delft University of Technology, Netherlands

- CSE2530, Computational Intelligence.

Supervised 2 Master's and 3 Bachelor's Students

- Nele Albers, Deniz Hofmeister, Sven Holtrop, Lucas Crijns, Cian Jansen.

PROFESSIONAL EXPERIENCE

AI Research Program

June 2022 - Dec 2022

JP Morgan AI Research, London

Host: Sumitra Ganesh

PhD Research Intern

May 2021 - October 2021

Huawei Ireland Research Center, Remote

Host: Alexandros Agapitos

- Offline Contextual Bandits for Wireless Network Optimization

Business Intelligence Analyst

July 2017 - August 2018

Unity Technologies, Copenhagen, Denmark

- Providing design support for the development of business intelligence solutions by applying data mining and visualization techniques.
- Performing statistical analysis for the marketing team using machine learning algorithms to define targets, predict customer behavior and increase profitability.

Solutions Assistant

February 2016 - July 2016

Everis NTT Data, Madrid, Spain

- Designing and testing software aimed at preventing money laundering for financial institutions using Norkom Technologies.
- Managing and analysing large datasets of bank transactions in R.
- Running complex database queries, implementing new functions, procedures and triggers, editing tables and creating virtual views in Oracle PL/SQL.

Technician in Energy Production

Summer periods 2013 and 2014

SAMPOL Ingenieria y Obras, Palma de Mallorca, Spain

- Energy efficiency studies in co-generation plants, biomass, fuel and gas applying optimization methods in MATLAB.
- Financial evaluation of energy production projects using Excel.
- Getting in contact with prospective clients and giving technical advise.