

EDUCATION

- **Ph.D. in Applied Mathematics** **Grenoble and Paris, France**
Inria - THOTH and EDF R&D *2022 – 2025*
Supervision: Pierre Gaillard, Nadia Oudjane and Margaux Brégère
Subject: Learning methods for mean-field models: application to electricity consumption control.
- **Masters 2 MVA - “Mathematics, Vision and Learning”** **Paris, France**
École Normale Supérieure Paris Saclay *2021 – 2022*
M.Sc.in Applied Mathematics with focus in Machine Learning
Relevant coursework: Reinforcement learning, sequential learning, convex optimisation, kernel methods, optimal transport, random matrices, graphs in machine learning.
- **École Polytechnique** **Paris, France**
X2018 *Ingénieur polytechnicien* *2019 – 2021*
M.Sc. and B.S. in Applied Mathematics.
- **University of Campinas (Unicamp)** **Campinas, Brazil**
B.S. Mathematics & Physics *2016 – 2018*

PUBLICATIONS AND PREPRINTS

- **Efficient Model-Based Concave Utility Reinforcement Learning through Greedy Mirror Descent**
Marin Moreno, Bianca; Brégère, Margaux; Gaillard, Pierre; Oudjane, Nadia
27th International Conference on Artificial Intelligence and Statistics (AISTATS) 2024
- **Reimagining Demand Side Management with Mean Field Learning**
Marin Moreno, Bianca; Brégère, Margaux; Gaillard, Pierre; Oudjane, Nadia
Under revision
- **Mean Field Analysis of an Incentive Algorithm for a Closed Stochastic Network**
Marin Moreno, Bianca; Fricker, Christine; Mohamed, Hanene; Philippe, Amaury; Trépanier, Martin.
33rd International Conference on Probabilistic, Combinatorial and Asymptotic Methods for the Analysis of Algorithms (AofA2022)

RESEARCH TALKS

- **PGMO days 2023** **Paris, France**
EDF R&D *Nov 2023*
- **SESO 2023 International Thematic Week** **Paris, France**
École des Ponts *Oct 2023*
- **Workshop days of the Energy Markets Finance Laboratory (FIME)** **Paris, France**
EDF R&D *Sep 2023*
- **Inria THOTH team seminar** **Grenoble, France**
Inria Grenoble *May 2023*
- **AofA 2022** **Philadelphia, USA**
University of Pennsylvania *Jun 2022*

WORK EXPERIENCE

- **EDF R&D** **Paris, France**
Research and Development *Apr 2022 - Oct 2022*
Subject: Sequential learning methods for mean-field models: application to power consumption control.
Advisors: Nadia Oudjane, Pierre Gaillard and Margaux Brégère.
- **Inria DYOGENE and Polytechnique Montréal** **Paris, France**
Research *Apr 2021 - Aug 2021*
Subject: Stochastic modelisation and data analysis of the incentive policy of a car-sharing system by Markov processes and mean-field analysis.
Advisors: Christine Fricker and Martin Trépanier.
Prizes: Research internship prize from Ecole Polytechnique.
- **PathControl** **Paris, France**
Research and Development *Jun 2020 - Aug 2020*
Tasks: Responsible for developing and implementing algorithms for well drilling.
Also implemented a graphical interface joined into the company software.

- **Unicamp - Quantum Mechanics Group MathFoundQ**
Research
Subject: Research project on a graph approach to quantum correlations.
Advisor: Marcelo T. Cunha.

Campinas, Brazil
Jan. 2018 - Dec. 2018

TEACHING

- **Teaching assistant in Time Series**
Master 1 level, Institut Polytechnique de Paris
Instructor: Yannig Goude
Paris, France
Feb 2023 - Apr 2023
- **Teaching assistant in Mathematical Analysis**
Bachelor level, Unicamp
Instructor: Paulo Ruffino
Campinas, Brazil
Mar 2017 - Jul. 2017

TRAINING COURSES

- **StatMatAppli 2023**
Conference on statistics
Frejus, France
Sep 2023 - Sep 2023
- **Reinforcement Learning Summer School**
In-depth introduction to Reinforcement Learning
Barcelona, Spain
Jun 2023 - Jul 2023
- **ECCI 2023 International Graduate School on Control**
Multi-agent optimization and learning: resilient and adaptative solutions
Paris-Saclay, France
Feb 2023 - Feb 2023

COMPUTER SKILLS

- **Programming Languages:** Python, R, Latex, MATLAB, AMPL

LANGUAGES

- **Portuguese:** Native Speaker
- **English:** Fluent — *Grade A in "First Certificate in English", Cambridge*
- **French:** Fluent — *Test de Connaissance du Français (TCF): C1*