

Enzo Miller | PhD Student

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Publications

- **Linear-quadratic stochastic delayed control and deep learning resolution.** Published in *Submitted*, with William Lefebvre, 2021.
- Markowitz portfolio selection for multivariate affine and quadratic Volterra models. Published in *SIAM Journal on Financial Mathematics*, with Eduardo Abi Jaber and Huy  n Pham, 2020.
- **Linear–Quadratic control for a class of stochastic Volterra equations: solvability and approximation** Published in *Annals of Applied Probability*, with Eduardo Abi Jaber and Huy  n Pham, 2019
- **Integral operator Riccati equations arising in stochastic Volterra control problems.** Published in *SIAM Journal on Control and Optimization*, with Eduardo Abi Jaber and Huy  n Pham, 2019.
- **Linear-Quadratic McKean-Vlasov Stochastic Differential Games.** Published in *Modeling, Stochastic Control, Optimization, and Applications. The IMA Volumes in Mathematics and its Applications*, vol 164. Springer, with Huy  n Pham, 2019.

Talks in Conferences

- **XXII Workshop On Quantitative Finance**, University of Verona, online event, January 30, 2021.
- **13th European Summer School in Financial Mathematics**, University of Vienna, September 03, 2020.
- **XXI Workshop On Quantitative Finance**, University of Parthenope, Naples, January 31, 2020.
- **Bachelier Colloquium**, Metabief, 2020.
- **PGMO Days**, EDF Lab, Paris, December 04, 2019.
- **Mean-field games and applications in Energy**, University of Edinburgh, April 01, 2019.
- **Mean-field games**, University of Bologna, January 14, 2019.

Education

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| Universit   Paris-Diderot <i>Phd in applied mathematics,</i> Non markovian stochastic control. | Paris - France 2018–2021 |
| Universit   d'Orsay <i>Master 2: Math  matiques de l'al  atoire,</i> Stochastic calculus, concentration of measure, convergence of measure, random graphs & trees, simulation, online learning, theory of local times and excursions, non-parametric bayesian estimation, random models of population in biology, probabilistic tools for the study of genetic diversity. | Orsay - France 2017–2018 |
|   cole polytechnique <i>One of France's leading universities for high-level scientific studies,</i> Specialized in: Applied mathematics and computer science. | Palaiseau - France 2014–2018 |

Experience

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| Qovoltis <i>Machine learning consultant (freelance)</i> Neural networks to build smart electric vehicle charging stations. | Paris 2020 - now |
| EDF <i>Machine learning consultant</i> | Saclay 2018 - 2019 |

Neural networks to optimally control a battery linked to a solar panel, a house and an electric grid with random prices.

Université Paris-Diderot

Paris

Master Thesis, professor : Huy  n Pham

April 2018 - August 2018

Game theory and stochastic control.

  cole polytechnique

Paris

Tutor in pure mathematics

Sept 2017 - June 2018

Distribution theory for 2nd year students. Real analysis for 1st year student during the common core curriculum.

Columbia University

New York

Visiting reasercher, professor : Guillaume Bal

April 2017 - Sept 2017

Applied diffusion approximation theory in the context of waves propagation in topological insulators with random fluctuations. Physics and applied mathematics.

Mazars

London

Quant

Summer 2016

Learnt financial concepts, improved the valuation tools.

Officer student

Lyon

French military

November 2014–April 2015

Part of the curriculum at   cole polytechnique.

Languages

French mother tongue **English** fluent **Italian & Spanish** conversational

Programming languages Python

ML frameworks TensorFlow, GCP

Interests & activities

Sport: CrossFit, strolling through the streets of Paris.

fun: Rollerblade, table football, reading.