

EDUCATION AND ACADEMIC POSITIONS

Post-doctoral fellow, EPFL, Switzerland Nonconvex landscape of matrix factorization problems. Advised by Nicolas BOUMAL.	2022-now
Post-doctoral fellow, UCLouvain, Belgium Efficient methods for large-scale polynomial optimization. Advised by Yurii NESTEROV.	2021-2022
PhD student, Université Toulouse Capitole & ENS Paris Bregman first-order methods for relatively-smooth optimization. Advised by Jérôme BOLTE and Alexandre D'ASPREMONT.	2018-2021
MSc Mathematics, Vision, Learning (MVA), ENS Paris-Saclay Classes in Convex Optimization, Machine Learning, Statistics, Computer Vision.	2017-2018
Engineer's degree, Ecole polytechnique, Paris-Saclay Computer Science and Applied Mathematics, Machine Learning track.	2014-2017

WORK EXPERIENCE

Research assistant, University of California, Berkeley Using supervised learning for modeling and optimizing wind farm production. Collaboration with EDF Renewable Energy. Advised by Laurent EL GHAOU.	Apr-Aug 2017
Intern, Symptify, Miami Front-end web development.	Jun-Aug 2016

PUBLICATIONS

- R.A. Dragomir, M. Even, H. Hendriks. “Fast Stochastic Bregman Gradient Methods: Sharp Analysis and Variance Reduction”, 2021. *International Conference on Machine Learning*.
- R.A. Dragomir, A.B. Taylor, A. d’Aspremont, J. Bolte. “Optimal Complexity and Certification of Bregman First-Order Methods”, 2021. *Mathematical Programming*.
- R.A. Dragomir, A. d’Aspremont, J. Bolte. “Quartic First-Order Methods for Low Rank Minimization”, 2021. *Journal of Optimization Theory and Applications*.

SCHOLARSHIPS AND AWARDS

- **Prix Dodu**: best presentation by a young researcher at SMAI-MODE workshop 2022
- **AMX**: PhD fellowship 2018-2021

TEACHING

- Teaching assistant, *Continuous optimization*, **EPFL**, 2022-2023
- Lecturer, *Numerical Analysis*, L1, **Université Paul Sabatier**, Toulouse 2019-2020
- Teaching assistant, *Convex Optimization*, M2, **ENS Paris-Saclay** 2018-2020
- Lecturer, *Linear Algebra*, L1, **Université Paul Sabatier**, Toulouse 2018-2019

TALKS

- SMAI-MODE workshop, Limoges. *Gradient methods for quartic problems.* 2022
- Online presentation, University of Genova. *Stochastic First-Order Methods for Relatively-Smooth Optimization.* 2021
- SIERRA team seminar, Paris. *Optimal Complexity and Certification of Bregman First-Order Methods.* 2020
- ICCOPT, Berlin. *Quartic First-Order Methods for Low Rank Minimization.* 2019

REVIEWING

Mathematical Programming, Journal of Optimization Theory and Applications, Mathematics of Operations Research, Computational Optimization and Applications.

COMPUTER SKILLS

- **Advanced:** Julia, Python, Matlab
- **Basic knowledge:** C/C++, Javascript

LANGUAGES

- **French:** Native
- **Romanian:** Native
- **English:** Fluent (TOEFL score 112/120)
- **Spanish:** Working knowledge