Hadrien Hendrikx

📱 +33 6 15 94 66 20 • ✉ hadrien.hendrikx@inria.fr

Work experience

INRIA - SIERRA / DYOGENE **Paris**
PhD Student *Since April 2018*
Stochastic algorithms for decentralized optimization [2, 3] under the supervision of Francis Bach and Laurent Massoulié.

Criteo **Paris**
Intern *September 2017 - March 2018*
Using image and text features to improve user-based recommendations.

Distributed and parallel programming laboratory, EPFL **Lausanne**
Research assistant *September 2016 - August 2017*
Working with Pr. Guerraoui on decentralized reinforcement learning in multiagent systems [5]. Also worked with Aurélien Bellet on differential privacy for gossip-based information dissemination [1].

Amadeus **London**
Trainee *March 2016 – July 2016*
Internship at Amadeus (Air Travel Industry company). Studying travel trends and major events impact on ticket bookings.

Intersec **Paris**
Data science intern *June 2015 – August 2015*
Population movements analysis from GSM data to study route detection [4].

Education

Academic Qualifications

Ecole Polytechnique Fédérale de Lausanne **Lausanne**
Master in Computer Science, Excellence fellowship *2016 - March 2018*

Ecole Polytechnique **Paris**
Machine Learning track, One of the leading engineering schools in France, GPA: 3.9 *2013–2016*

Lycée du Parc **Lyon**
Intensive post Secondary Program, specialization in mathematics *2011–2013*

Technical and Personal skills

- **Programming:** Python, Java, Spark, Javascript, SQL, C++
- **Languages:** *French*: Mother tongue, *English*: Proficient, European level C1, *Spanish*: Fluent, European level C1 (DELE nivel superior), lived in Dominican Republic for 3 years

Presentations

- Invited talk at the NIPS 2017 Aligned AI workshop
- Spotlight presentation of the Dynamic Safe Interruptibility paper [5]

Publications

[1] Aurélien Bellet, Rachid Guerraoui, and Hadrien Hendrikx. Who started this rumor? quantifying the natural differential privacy guarantees of gossip protocols. *arXiv preprint arXiv:1902.07138*, 2019.

[2] Hadrien Hendrikx, Francis Bach, and Laurent Massoulié. Accelerated decentralized optimization with local updates for smooth and strongly convex objectives. In *Artificial Intelligence and Statistics*, 2019.

[3] Hadrien Hendrikx, Francis Bach, and Laurent Massoulie. An accelerated decentralized stochastic proximal algorithm for finite sums. *arXiv preprint arXiv:1905.11394*, 2019.

[4] Hadrien Hendrikx and Miguel Núñez-del Prado-Cortez. Toward a route detection method base on detail call records. In *Computational Intelligence (LA-CCI), 2016 IEEE Latin American Conference on*, pages 1–6. IEEE, 2016.

[5] El Mahdi El Mhamdi, Rachid Guerraoui, Hadrien Hendrikx, and Alexandre Maurer. Dynamic safe interruptibility for decentralized multi-agent reinforcement learning. In *Advances in Neural Information Processing Systems*, pages 129–139, 2017.