






EDUCATION AND ACADEMIC POSITIONS

Postdoctoral Fellow at the ETH AI Center	Zürich, Switzerland 2023–now
École Polytechnique Fédérale de Lausanne (EPFL) Ph.D. in Theoretical Computer Science, Advisor: Ola Svensson 	Lausanne, Switzerland 2018–2023
Université Paris Diderot - École Normale Supérieure Paris M.Sc. in Theoretical Computer Science (<i>summa cum laude</i>); GPA: 18.81/20 (rank: 2/63). – Thesis: “Local algorithms in graphs”, Advisor: Louis Esperet 	Paris, France 2017–2018
École polytechnique (Engineering diploma) Specialization in Machine Learning and Algorithms.	Paris, France 2014–2018
Lycée Louis-Le-Grand, classe préparatoire MPSI/MP* Training in mathematics and physics for competitive exams to enter “Grandes écoles”. French “Baccalauréat série S” (<i>summa cum laude</i>).	Paris, France 2012–2014 Paris, France 2012

INTERNSHIPS AND ACADEMIC VISITS

Academic visit at the Simons Institute Visitor of the “Data-Driven Decision Processes”  semester program.	Berkeley, USA Nov. 2022–Dec. 2022
Academic visit at ETH Zürich Visitor of Rico’s Zenklusen group	Zurich, Switzerland May 2022–June 2022
Research internship G-SCOP Research in the G-SCOP  team for combinatorial optimization. – I investigated what can or cannot be computed by local algorithms in graphs. This project led to two publications in theoretical computer science conferences.	Grenoble, France April 2018–August 2018
Research and software engineering internship, INRIA Research done in the INRIA team NANO-D 	Grenoble, France March 2017–July 2017
Internship at Surrey Satellite Technology Ltd Intern in the OBDH (On-Board Data Handling) team. – I took part in analyzing circuit designs and optical devices for satellites as well as programming analysis software.	Guildford, England Summer 2017
Military Service Paris Fire Brigade, first fire group. – Team leader of a rescue team of 3 people in case of accident, dangerous disease, or fire.	Paris, France September 2014–April 2015

AWARDS AND HONORS

- ETH AI Center Postdoctoral fellowship 2023-2025
- NeurIPS oral presentation ($\approx 1\%$ acceptance rate) 2020
- NeurIPS spotlight presentation ($\approx 4\%$ acceptance rate) 2020
- EPFL IC School 1-year Fellowship 2018
- Citation for outstanding service in my unit during military service 2015

PUBLICATIONS

1. Étienne Bamas, Sai Ganesh Nagarajan, Ola Svensson, “An Analysis of D^α seeding for k -means” [↗](#), *preprint*.
2. Étienne Bamas, Alexander Lindermayr, Nicole Megow, Lars Rohwedder, Jens Schölter, “Santa Claus meets Makespan and Matroids: Algorithms and Reduction” [↗](#), *to appear in 35th ACM-SIAM Symposium on Discrete Algorithms*, SODA 2024.
3. Étienne Bamas, Lars Rohwedder, “Better Trees for Santa Claus” [↗](#), *55th Annual ACM Symposium on Theory of Computing*, STOC 2023.
4. Étienne Bamas, Marina Drygala, and Ola Svensson, “A Simple LP-Based Approximation Algorithm for the Matching Augmentation Problem” [↗](#), *23rd Conference on Integer Programming and Combinatorial Optimization*, IPCO 2022.
5. Étienne Bamas, Marina Drygala, and Andreas Maggiori, “An Improved Analysis of Greedy for Online Steiner Forest” [↗](#), *33rd ACM-SIAM Symposium on Discrete Algorithms*, SODA 2022.
6. Étienne Bamas, Paritosh Garg, and Lars Rohwedder, “The Submodular Santa Claus Problem in the Restricted Assignment Case” [↗](#), *48th International Colloquium on Automata, Languages, and Programming*, ICALP 2021.
7. Étienne Bamas, Andreas Maggiori, and Ola Svensson, “The Primal-Dual method for Learning Augmented Algorithms” [↗](#), *Advances in Neural Information Processing Systems 33*, NeurIPS 2020 (**oral presentation**).
8. Étienne Bamas, Andreas Maggiori, Lars Rohwedder, and Ola Svensson, “Learning Augmented Energy Minimization via Speed Scaling” [↗](#), *Advances in Neural Information Processing Systems 33*, NeurIPS 2020 (**spotlight presentation**).
9. Étienne Bamas and Louis Esperet, “Local Approximation of the Maximum Cut in Regular Graphs” [↗](#), *Graph-Theoretic Concepts in Computer Science - 45th International Workshop*, WG 2019.
10. Étienne Bamas and Louis Esperet, “Distributed Coloring of Graphs with an Optimal Number of Colors” [↗](#), *36th International Symposium on Theoretical Aspects of Computer Science*, STACS 2019.

TEACHING

- Supervision of master thesis at ETHZ since 2023
Supervised students: Thibault Vignon (master student of ETHZ).
- Supervision of semester projects at EPFL since 2021
Supervised students: Alexandre Reynaud (master student), Taha El Ghazi (master student).
- Teaching Assistant at EPFL 2019–2022
“Algorithms” (head TA), “Theory of Computation” (head TA), “Information, Calcul, Communication”
- Teaching Assistant at Lycée Janson-de-Sailly 2017–2018
In charge of oral exams in mathematics

SKILLS AND LANGUAGES

- **Programming:** Java, C++, Python.
- **French:** Native.
- **English:** Full professional proficiency (110/120 TOEFL iBT).
- **Spanish and Mandarin:** Basics.

ACADEMIC SERVICE AND TALKS

- I co-organized the workshop ALPS '22 [↗](#) on algorithms with predictions (~ 45 international participants).
- Reviewer for the conferences: MFCS '19, WAOA '20, ITCS '20, '23, NeurIPS '21, '22, '23, SODA '22, '23, ICML '22, STOC '23.
- Reviewer for the journals: Algorithmica (2021), Journal of Computer and System Sciences (2023).
- I gave a talk at the following conferences or workshops: WG '19, STACS '19, Dagstuhl scheduling seminar in 2020 and 2023, NeurIPS '20, ICALP '21, Operations Research Bern (OR) '21, SODA '22, STOC '23.

EXTRACURRICULAR ACTIVITIES

- Fond of sports: running (I enjoy sharing my (modest) results on Strava [↗](#)), skiing, rock climbing, hiking.
- Member of EPFL emergency medical team (2019).