

Education

- 2019-2022 **PhD**, *Sorbonne Université*.
(expected) Under the supervision of Vincent Cohen-Addad and Christoph Durr
- 2018 **M.Sc.**, *École Normale Supérieure, Paris*.
Master Parisien de Recherche en Informatique (MPRI), ranked 5th
- 2016 **B.Sc.**, *École Normale Supérieure, Paris*.
Bachelor in Informatics, with a minor in mathematics
- 2013 **International Olympiads in Informatics (IOI)**.
Member of the French Delegation

Selected Publications

- 2022 An Improved Local Search Algorithm for k-Median, *SODA '22*.
with Vincent Cohen-Addad, Anupam Gupta, Lunjia Hu and Hoon Oh
- 2021 A New Coreset Framework for Clustering, *STOC '21*.
with Vincent Cohen-Addad and Chris Schwiegelshohn
- 2019 Linear-Time Approximation Schemes for Clustering in Doubling Metrics, *JACM*,
preliminary version appeared at *FOCS '19*.
with Vincent Cohen-Addad and Andreas Emil Feldmann.

Popular Science and Teaching

- 2020- **Cité des sciences et de l'Industrie**, *Paris*, Science facilitator.
- 2018-2019 **Teaching in Sorbonne Université**, Teaching Assistant for classes *Introduction to Python programming* (1st year students, 50 h) and *Algorithm* (2nd year, 40 h).
- 2018 **French PhD Day**, Organizer of the PhD students day of the Française d'Informatique (SIF).
- 2015- **Intervention in High School**, Scientific mediations about graphs, algorithms, mathematics for high school students.
- 2015-2017 **Oral examinations (colles) in preparatory classes**, Oral math examinations in *MPSI*, Lycée Louis-le-Grand. 50 h / year.
- 2013-2017 **France-IOI**, Teaching in training camp in Algorithm for students preparing the IOI.

All Refereed Publications

- 2022 An Improved Local Search Algorithm for k-Median, *SODA*.
with Vincent Cohen-Addad, Anupam Gupta, Lunjia Hu and Hoon Oh
- 2021 Improved Coresets and Sublinear Algorithms for Power Means in Euclidean Spaces, *NeurIPS (Spotlight)*.
with Vincent Cohen-Addad and Chris Schwiegelshohn
- 2021 A New Coreset Framework for Clustering, *STOC*.
with Vincent Cohen-Addad and Chris Schwiegelshohn
- 2020 On the Power of Louvain for Graph Clustering, *NeurIPS*.
with Vincent Cohen-Addad, Adrian Kosowski and Frederik Mallmann-Trenn

- 2020 Polynomial Time Approximation Schemes for Clustering in Low Highway Dimension Graphs, *ESA*, invited to the special issue of *JCSS*.
with Andreas Emil Feldmann
- 2019 Fully Dynamic Consistent Facility Location, *NeurIPS*.
with Vincent Cohen-Addad, Niklas Hjuler, Nikos Parotsidis and Chris Schwiegelshohn
- 2019 Linear-Time Approximation Schemes for Clustering in Doubling Metrics, *FOCS*, to appear at *JACM*
with Vincent Cohen-Addad and Andreas Emil Feldmann
- 2019 Dominating Sets and Connected Dominating Sets in Dynamic Graphs, *STACS*
with Niklas Hjuler, Giuseppe F. Italiano and Nikos Parotsidis
- 2018 Polynomial-Time Approximation Schemes for k-center, k-median, and Capacitated Vehicle Routing in Bounded Highway Dimension, *ESA*.
with Amariah Becker and Phil Klein
- 2017 A Quasi-Polynomial-Time Approximation Scheme for Vehicle Routing on Planar and Bounded-Genus Graphs, *ESA*.
with Amariah Becker and Phil Klein