

Gilbert Maystre

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Education

2020 -	PhD candidate in Computer Science École Polytechnique Fédérale de Lausanne <i>Algorithms and lower bounds</i>
2016 - 2020	MSc. in Computer Science École Polytechnique Fédérale de Lausanne
2015 - 2016	International exchange student The Johns Hopkins University (Baltimore - USA)
2013 - 2016	BSc. in Computer Science École Polytechnique Fédérale de Lausanne

Employment

2020-	Research assistant - EPFL Contributing to research and teaching activities at the School of Computer and Communication Sciences.
2018 4 Months	Data-science intern - Bühler Group Worked in the research department and applied machine learning techniques to optimize production in wheat milling plants.
2017 - 2018 6 Months	Software engineering intern - AdNovum Developed new features for the leading Swiss mobile payment app in a large team of developer. Saw the whole spectrum of software development, from architecture to testing.

Publications

in my field, authors are listed alphabetically

Submitted	One-Way Functions vs. TFNP: Simpler and Improved with Lukáš Folwarczný, Mika Göös, Pavel Hubáček and Weiqiang Yuan
FOCS22	Randomised Composition and Small-Bias Minimax with Shalev Ben-David, Eric Blais and Mika Göös
FOCS22	Separations in Proof Complexity and TFNP with Mika Göös, Alexandros Hollender, Siddhartha Jain, William Pires, Robert Robere and Ran Tao
CCC22	Further Collapses in TFNP with Mika Göös, Alexandros Hollender, Siddhartha Jain, William Pires, Robert Robere and Ran Tao

CCC21	A Majority Lemma for Randomised Query Complexity with Mika Göös
SOSA21	Communication Efficient Coresets for Maximum Matching with Michael Kapralov and Jakab Tardos

Honors & Awards

2022	Teaching Assistant Award
2020	EPFL EDIC PhD Fellowship
2019	Hackathon Grand Winner (out of 53 projects), LauzHack
2018	EPFL IC research scholarship
2015	Grant to study abroad

Languages & Misc.

Languages	French: native English: fluent (written and spoken) German: some
Programming	Java, Python, \LaTeX , c (some), scala (some)
Technology	Android, Swing, Apache Hadoop, Gurobi, Pandas, SQL, git, Amazon Web Service
Service	CCC22, STOC22, ICALP21, Theory of Computing Journal
Coursework	Advanced algorithms, Computational complexity, Sublinear algorithms for big data analysis, Machine learning, Operating systems, Graph theory, Cryptography & security
Teaching Assistant	Algorithms: 2016, 2019 Advanced ICC II: 2017 Advanced Algorithms: 2018, 2020 Theory of Computation: 2021, 2022, 2023 Computational Complexity: 2021, 2022