

Simon MAURAS



INFORMATIONS

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RESEARCH POSITIONS

Feb. 2024 - ...	Chargé de recherche Team FairPlay, INRIA Paris Saclay
Feb. 2022 - Jan. 2023	Postdoctoral Fellow <i>Algorithmic Mechanism Design.</i> Supervised by Michal Feldman (Tel Aviv University).
Sep. 2018 - Dec. 2021	Doctoral Student <i>Analysis of Random Models for Stable Matchings.</i> Supervised by Claire Mathieu (IRIF, Paris) and Hugo Gimbert (LaBRI, Bordeaux).
Summer 2019	Visiting Graduate Student, Simons Institute, Berkeley <i>Online and Matching-Based Market Design.</i> Invited by Jacob Leshno (Chicago Booth, IL, USA).
Summer 2018	Research internship <i>Rank aggregation with ties.</i> Supervised by Claire Mathieu (IRIF, Paris).
Summer 2016	Research internship <i>Algorithms and datastructures in external memory.</i> Supervised by Michael A. Bender (Stony Brook University, NY, USA)
Summer 2015	Research internship <i>Automatic Extraction of Automata from Low-Level Event-Driven Programs.</i> Supervised by Florence Maraninchi (Verimag, Grenoble)

RESEARCH SERVICE

Contribution at conferences

External reviewer at SODA, ICALP, ESA, ITCS, WINE, SAGT.
Student volunteer at ICGT'18, FOCS'18, EC'20, STOC'22, ICALP'22.
Junior program committee member at WINE'21, WWW'23, EC'23, WINE'23.

Organization of seminars

PhD Students' Seminar (IRIF, Paris, 2019-2021).

SELECTED PUBLICATIONS

- [1] Alon Eden, Michal Feldman, Kira Goldner, Simon Mauras, and Divyarthi Mohan. Constant approximation for private interdependent valuations. In *Symposium on Foundations of Computer Science (FOCS)*, 2023.
- [2] Michal Feldman, Federico Fusco, Simon Mauras, and Rebecca Reiffenhäuser. Truthful matching with online items and offline agents. In *International Colloquium on Automata, Languages, and Programming (ICALP)*, 2023.
- [3] Simon Mauras. Two-sided random matching markets: Ex-ante equivalence of the deferred acceptance procedures. In *Conference on Economics and Computation (EC)*, 2020.
- [4] Claire Mathieu and Simon Mauras. How to aggregate top-lists: Approximation algorithms via scores and average ranks. In *Symposium on Discrete Algorithms (SODA)*, 2020.

OTHER PRODUCTIONS

Co-author of a school book (10th grade) of Computer science.

Science Numériques et Technologie, Éditions Bordas.

Software productions.

Most projects are on Github: <https://github.com/simon-mauras>

TEACHING

2018 - 2021 **Teaching assistant at Université Paris Cité.**

Programming in Python (1st year of B.Sc.), Analysis of structured data (2nd year of B.Sc.),
Introduction to algorithms (2nd year of B.Sc.), Programming in C (2nd year of B.Sc.),
Programming in Java (1st year of B.Sc.), Object-oriented programming (2nd year of B.Sc.).

Supervision of undergraduate students.

Maxime Dresler, Kévin Dang (Université Paris Cité, B.Sc., 2020) on *Rank Aggregation*.

OTHER ACTIVITIES

Competitive programming

Silver medalist at IOI 2012; Contestant at ICPC, Google Code Jam, ...

Problem setter and judge at ICPC SWERC 2022 and 2023.

Member of the association France-IOI.

Training of french high school students for the International Olympiads in Informatics (since 2013)

Team leader at IOI 2017 – 2022 (Iran, Japan, Azerbaijan, Singapore, Indonesia).

Elected member of the board (since 2018) and treasurer (since 2022).

EDUCATION

2018 - 2021 ***Ph.D. student* in Computer Science**

IRIF, Université Paris Cité; and LaBRI, Université de Bordeaux

2017 - 2018 ***M.Sc. in Computer Science***

École Normale Supérieure de Lyon

2016 - 2017 ***M.Sc. and Agrégation in Mathematics***

École Normale Supérieure de Lyon

2015 - 2016 ***M.Sc. (1st year) in Computer Science***

École Normale Supérieure de Lyon

2014 - 2015 ***B.Sc. in Computer Science***

École Normale Supérieure de Lyon

B.Sc. in Mathematics

Université Claude Bernard Lyon 1