

Jules Bertrand

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Formation

- 2020 **Master 2**, *Fondation of Computer Science*, Ecole Normale Supérieure de Lyon
- Courses: Numerical simulation; Data-aware algorithms; Approximation theory and proofs assistants; Parameterized and exact algorithms; Molecular programming; Automata theory.
- 2019-2020 **Master 1**, *Fondation of Computer Science*, Ecole Normale Supérieure de Lyon
- Courses: Compilation and Program analysis; Optimisation and approximation; Parallel and Distributed Algorithms and Programs; Information Theory; Machine Learning; Proofs and Programs; Cryptography and Security; Computational complexity; Semantic and verification.
 - Project: Perceval : producing a program able to take part to **a game competition**.
- 2018-2019 **Bachelor**, *Theoretical Computer Science*, Ecole Normale Supérieure de Lyon
Bachelor, *Mathematics*, Université Lyon 1
- Courses: Programming languages theory; Computability; Algorithmics; Probability; Computer Architecture; Competitive programming (ACM); Algebra; Measure theory.
 - Projects: creating a stack processor (6 weeks), writing an interpreter for a simple functional language (10 weeks)
- 2016-2018 **Classe préparatoire**, *MPSI and MP**, Lycée Henri Wallon, Valenciennes
Result: Admission to Ecole Normale Supérieure de Lyon
- 2012-2015 **Lycée**, *Scientific section*, Lycée Henri Wallon, Valenciennes
Diploma: Baccalauréat, Mention Très Bien

Research internship

- 2020 3 month internship, supervised by Bora Uçar and Fanny Dufossé, LIP, Lyon.
- Subject: Algorithms and data structure for hyperedge queries
 - Link to the report
- 2019 Bachelor internship (6 weeks), supervised by Christophe Papazian and Enrico Formenti, I3S, Sophia-Antipolis.
- Subject: Numbers on automata
 - Link to the report (in french)

Languages

French Mother tongue
English C1
German B2

Fields of interest

- Tutoring Weekly intervention at the Robert Doisneau high school in Vaulx-En-Velin
- Sports
- **Ultimate** as a player and coach in the ENS team.
 - **Climbing**