Clément Berenfeld | CV

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Education

PhD. thesis, *Geometric inference and nonparametric statistics.* **Paris**
Under the supervision of Pr. M. Hoffmann, CEREMADE, Université Paris-Dauphine. *2019 – today*

Master 2 of Université Paris-Saclay, *Statistics and Machine Learning*. Highest Honor. **Orsay**
Research internship under the supervision of Pr. E. Arias-Castro at UCSD, San Diego. *2017–2018*

École Normale Supérieure, rue d'Ulm. **Paris**
Bachelor thesis: *Complex Multiplication Theory*, under the direction of Pr. J. Nekovar. *2014–2019*

Preparatory School, MPSI-MP*. **Versailles**
Lycée Sainte-Geneviève. *2012–2014*

Baccalauréat S, Highest honor. **Ussel**
Lycée Bernart-de-Ventadour *2012*

Experience

Research and development in data integration at Signactif **Bagneux**
Supervised by Pr. B. Maury and S. Faure (LMO, Université P-Sud) *March 2017–August 2017*

Oral examiner in mathematics **Versailles**
Lycée Sainte-Geneviève, MPSI-PCSI *2014–2016*

Articles

- **From Graph Centrality to Data Depth** (2021), with E. Aamari and E. Arias-Castro. *In revision*. arXiv:2105.03122.
- **Estimating the Reach of a Manifold via its Convex Defect Function** (2021), with J. Harvey, M. Hoffmann and K. Shankar. Published in *DCG*.
- **Density Estimation on an Unknown Submanifold** (2021), with M. Hoffmann. Published in *EJS*.
- **Some Random Paths with Angle Constraints** (2021), with E Arias-Castro. Published in *AIHP Probability & Statistics*.

Talks

Statistics seminar, Humboldt-Universität, Berlin, 19th November, 2021 // **Séminaire Parisien de Statistique**, IHP, Paris, 18th October, 2021 // **Meeting in Mathematical Statistics**, CIRM, Luminy, 6th January, 2021 // **Datashape Seminar**, INRIA, Saclay, 21st January, 2020 // **Applied Mathematics Seminar**, LMJL, Nantes, 14th November, 2019.

Technical and Personal skills

Programming skills : Python, R.
Spoken languages : French (mother tongue), English (fluent), German (notions).

Interests

Rock climbing, Cycling, Computer music, Cinema...