

Vincent Divol

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Education

- 2018- **PhD Thesis**, *Estimator selection in geometric inference*, under the supervision of Pascal Massart and Frédéric Chazal.
Université Paris-Sud and Inria Saclay
- 2017 **Master in probabilities and statistics**, *obtained with highest honors*.
Université Paris-Sud
Master thesis, *Weak laws of large numbers on persistence diagrams*, under the supervision of Wolfgang Polonik.
UC Davis, California
- 2015 **Bachelor of mathematics**, *obtained with highest honors*.
Université Paris VI
- 2014 **Admitted to École Normale Supérieure of Paris after a national competitive exam**.

Publications

- 2019 **Understanding the topology and the geometry of the persistence diagram space via optimal partial transport**, *joint work with Théo Lacombe*, preprint.
- 2019 **On the choice of weight functions for linear representations of persistence diagrams**, *joint work with Wolfgang Polonik*, accepted to the Journal of Applied and Computational Topology.
- 2018 **The density of the expected persistence diagram and its kernel-based estimation**, *joint work with Frédéric Chazal*, published in the Proceedings of the Symposium of Computational Geometry 2018.

Talks

- 2019 **participation to Saint-Flour Probability Summer School**.
9e Biennale Française des Mathématiques Appliquées et Industrielles, *presentation given in "Geometry in data" mini-symposium*.
Institut Henri Poincaré, Paris
Journées Young Statistician and Probabilists, *presentation given in "Topology in data" session*.
Institut Henri Poincaré, Paris
- 2018 **Symposium of Computational Geometry**, *On the density of expected persistence diagrams and its kernel based estimation*, published in the proceedings of the conference.
Institut Rényi, Budapest
Journées Françaises de Statistiques, *Introduction à l'analyse topologique des données*.
EDF Lab, Palaiseau
- 2017 **Junior Conference on Data Science and Engineering**, *Lois des grands nombres sur les diagrammes de persistance*.
Université Paris-Sud, Orsay