

# Quentin Paris

Assistant Professor

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## Academic positions

- 2017- Pres. **Assistant Professor**, *National Research University - Higher School of Economics (HSE)*, Faculty of Computer Science, Department of Data Analysis and Artificial Intelligence & International Lab of Stochastic Algorithms and High-Dimensional Inference (HDI Lab).  
Moscow, Russia
- 2014-2017 **Assistant Professor**, *National Research University - Higher School of Economics (HSE)*, Faculty of Economics, Department of Statistics and Data Analysis.  
Moscow, Russia
- 2013-2014 **Postdoctoral Fellow**, *Center for Research in Economics and Statistics (CREST)*.  
Paris, France

## Education

- 2013 **Ph.D. in Statistics**, *Ecole Normale Supérieure de Cachan, Antenne de Bretagne*, Thesis: A Contribution to Complexity Reduction in Statistics, Supervisors: Pr. Benoît Cadre and Pr. Bruno Pelletier, Thesis reports by Pr. Gábor Lugosi and Pr. Fabrice Gamboa.  
Rennes, France
- 2011 **Agrégation de Mathématiques**, *Option Probabilités et Statistiques*, Rank: 91.
- 2010 **M.Sc. in Mathematics**, *Ecole Normale Supérieure de Cachan, Antenne de Bretagne & University of Rennes 1*.  
Rennes, France
- 2008 **B.Sc. in Mathematics**, *University of Paris 11*.  
Paris, France

## Research

**Interests** My research interests are in Statistics, Statistical Learning Theory and Applied Probability. My past work focused mainly around statistical problems for high-dimensional or complex data. Recently, I started working on questions at the intersection of Statistics, Optimal Transport and Geometry.

- Publications** **Convergence rates for empirical barycenters in metric spaces: curvature, convexity and extendible geodesics**, *A. Ahidar-Coutrix, T. Le Gouic and Q. Paris*.  
Submitted
- A stability property of  $k$ -means clustering**, *T. Le Gouic and Q. Paris*.  
Electronic Journal of Statistics (To appear)
- On the prediction loss of the lasso in the partially labeled setting**, *P. Bellec, A. Dalalyan, E. Grappin and Q. Paris*.  
Electronic Journal of Statistics (2018). Vol. 12, pp. 3443–3472.
- On the exponentially weighted aggregate with the Laplace prior**, *A. Dalalyan, E. Grappin and Q. Paris*.  
The Annals of Statistics (2018). Vol. 46, No. 5, pp. 2452-2478.
- Finite sample properties of the mean occupancy counts and probabilities**, *G. Decrouez, M. Grabchak and Q. Paris*.  
Bernoulli (2018). Vol. 24, No. 3, pp. 1910-1941.
- Cox process functional learning**, *G. Biau, B. Cadre and Q. Paris*.  
Statistical Inference for Stochastic Processes (2015). Vol. 18, pp. 1-21.

**Minimax adaptive dimension reduction for regression**, *Q. Paris*.

Journal of Multivariate Analysis (2014). Vol. 128, pp. 186-202.

**On Holder fields clustering**, *B. Cadre and Q. Paris*.

Test (2012). Vol. 21, pp. 301-316.

Reviews Bernoulli, Electronic Journal of Statistics, Journal of Statistical Planning and Inference, ESAIM Probability and Statistics, COLT.

Research visits CREST (April 4 to April 19, 2015, with Pr. Arnak Dalalyan), Ecole Centrale Marseille (May 30 to June 7, 2015, with Pr. Thibaut Le Gouic), MIT (March 15 to May 15, 2016, with Pr. Philippe Rigollet), Ecole Centrale Marseille (June 1 to June 30, 2016, with Pr. Thibaut Le Gouic)

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## Teaching

2018-Pres. **Introduction to functional analysis**, *Yandex School of Data Analysis*, Graduate level, Lectures. Moscow, Russia

2017-Pres. **High dimensional statistics**, *M.Sc. program Statistical Learning Theory*, Faculty of Computer Science at HSE, Lectures and seminars.

Moscow, Russia

**Statistics and machine learning**, *M.Sc. program Data Science*, Faculty of Computer Science at HSE, Lectures and seminars.

Moscow, Russia

2016-2017 **Introduction to functional analysis**, *4th year students of the joint HSE-NES B.Sc. program in Economics*, Faculty of Economics at HSE, Lectures and seminars.

Moscow, Russia

**High dimensional statistics**, *M.Sc. program Statistical Modelling and Actuarial Science*, Faculty of Economics at HSE, Lectures and seminars.

Moscow, Russia

2014-2016 **Data analysis**, *4th year B.Sc. program Statistics and Econometrics*, Faculty of Economics at HSE, Lectures and seminars.

Moscow, Russia

2013-2014 **Simulation and Monte Carlo methods**, *2nd year students at the ENSAE engineering school*, Seminars.

Paris, France

**Introduction to stochastic processes**, *2nd year students at the ENSAE engineering school*, Seminars.

Paris, France

**Theory of statistical testing**, *2nd year students at the ENSAE engineering school*, Seminars.

Paris, France

2010-2013 **Opening course in mathematics**, *1st year students at the ENSAI engineering school*, Lectures and seminars.

Rennes, France

**Introduction to probability and statistics**, *1st year students of the Mechanics and Electronics department at the École Normale Supérieure de Cachan (Bretagne)*, Lectures and seminars.

Rennes, France

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## References

Upon request

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## Miscellaneous

Citizenship French. Born on February 18, 1986, in London

Languages French (native), English (fluent), Russian (good), Spanish (basic)

Mar. Status Married to Polina, Father of Marc.