

# Thibaut Le Gouic

Maître de conférence (Associate Professor)

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French citizen, born on 1987, in Saint-Pierre (974), France

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## Academic Employment

2017–2018	<b>Délégation CNRS</b> Six months research sabbatical awarded by the CNRS (France)
Sept 2014–	<b>Maître de conférence (Associate Professor)</b> Ecole Centrale de Marseille, Marseille
2013–2014	<b>ATER (1-year contract assistant professor)</b> École centrale de Marseille, Marseille
2010–2013	<b>Moniteur (Teaching assistant)</b> Université Paul Sabatier, Toulouse

## Education

2010–2013	<b>PhD</b> Université Paul Sabatier, Toulouse Title: <i>Mass localization and Wasserstein spaces</i> Advisor: <i>Philippe Berthet</i>
2008–2010	<b>Master de Mathématiques</b> Université Paul Sabatier, Toulouse Mémoire: <i>Quantization and measure transportation for clustering in Banach spaces</i>
2005–2008	<b>Licence de Mathématiques</b> Université Paul Sabatier, Toulouse

*Scientific animation*

Oct 2017-Mar 2018

**Four months research visit at the Higher School of Economics**

Moscow (Russia)

Sept 2016-July 2017

**Responsible of the seminar of statistics**

*Institut de Mathématiques de Marseille*

Oct 2016

**Two weeks research visit at the Higher School of Economics**

Moscow (Russia)

May 2016

**Selection comity**

for an assistant professor position at the École Centrale de Casablanca (Morocco)

Jan 2016

**Reviewer for**

*The Annals of Statistics*

Jan-Jun 2013

**Organisation of a PhD student workshop**

*Institut de Mathématiques de Toulouse*

Oct 2012

**Organisation of the welcoming day for new PhD students in probability and statistics**

*Institut de Mathématiques de Toulouse*

Oct 2012

**Organisation of mini-courses between PhD students**

*Institut de Mathématiques de Toulouse*

Mars et Nov 2012

**Participations at the Hippocampe program: the scientific world for high school students**

*Institut de Recherche pour l'Enseignement des*

*Mathématiques de Toulouse*

## Conferences and seminars

Dec 2017	<b>Invited Session, CFE-CMStatistics meeting</b> University of London, London (UK)
Dec 2016	<b>Latin American Congress of Probability and Mathematical Statistics (CLAPEM)</b> San José (Costa Rica)
Oct 2016	<b>Talk on Wasserstein barycenter</b> Faculty of Mathematics, Higher School of Economics, Moscow (Russia)
Oct 2015	<b>2nd conference on Geometric Science of Information</b> Ecole Polytechnique, Paris-Saclay
Juin 2015	<b>Meeting on statistics Avignon-Marseille</b> Université d'Avignon, Avignon
Sept 2014	<b>Séminaire de probabilités et statistiques</b> I3M, Montpellier
Feb 2014	<b>Séminaire de statistiques</b> LAREMA, Angers
Jan 2014	<b>Workshop on PDE/Probability</b> LATP, Marseilles
Nov 2013	<b>Séminaire de probabilités</b> IMT, Toulouse
Aou 2013	<b>Rencontres des jeunes statisticiens</b> Centre Paul Langevin, Aussois
Juin 2012	<b>Sexto encuentro de Estadística Matemática BoSanTouVal</b> CIEM, Castro Urdiales (Spain)

## PUBLICATIONS AND PREPRINTS

### Publications

- [BL14] Emmanuel Boissard and Thibaut Le Gouic. “On the mean speed of convergence of empirical and occupation measures in Wasserstein distance”. In: *Annales de l’Institut Henri Poincaré, Probabilités et Statistiques*. Vol. 50. 2. Institut Henri Poincaré. 2014, pp. 539–563.
- [BLL15] Emmanuel Boissard, Thibaut Le Gouic, and Jean-Michel Loubes. “Distribution’s template estimate with Wasserstein metrics”. In: *Bernoulli* 21.2 (2015), pp. 740–759.
- [LL16] Thibaut Le Gouic and Jean-Michel Loubes. “Existence and consistency of Wasserstein barycenters”. In: *Probability Theory and Related Fields* (2016), pp. 1–17. ISSN: 1432-2064. DOI: [10.1007/s00440-016-0727-z](https://doi.org/10.1007/s00440-016-0727-z). URL: <http://dx.doi.org/10.1007/s00440-016-0727-z>.

### Preprints

- [AL17] Ery Arias-Castro and Thibaut Le Gouic. “Unconstrained and Curvature-Constrained Shortest-Path Distances and their Approximation”. In: *arXiv preprint arXiv:1706.09441* (2017).
- [Le 15a] Thibaut Le Gouic. “Mass localization”. In: *arXiv preprint arXiv:1506.04136* (2015).
- [Le 15b] Thibaut Le Gouic. “Recovering metric from full ordinal information”. In: *arXiv preprint arXiv:1506.03762* (2015).

## TEACHING

2016–2017	<b>250h service</b> <ul style="list-style-type: none"><li>• courses in probability theory (L3)</li><li>• courses in statistical learning (M2)</li><li>• courses in statistics (M1)</li><li>• refresher course in probability theory to École Préparatoire teachers in Casablanca</li><li>• project tutoring</li></ul>
2015–2016	<b>314h service</b> <ul style="list-style-type: none"><li>• courses in probability theory (L3,M1)</li><li>• courses in statistical learning (M2)</li><li>• courses in statistics (M1)</li><li>• project tutoring</li></ul>
2014–2015	<b>225h service</b> <ul style="list-style-type: none"><li>• courses in probability theory (L3,M1)</li><li>• courses in statistical learning (M2)</li><li>• courses in statistics (M1)</li><li>• project tutoring</li></ul>
2013–2014	<b>192h service</b> <ul style="list-style-type: none"><li>• courses in probability theory (L3,M1)</li><li>• courses in statistics (M1)</li><li>• project tutoring</li></ul>