## Thibaut Le Gouic

Maître de conférence (Associate Professor)

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 thibautlg.github.io

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

# $A cademic\ Employment$

2019 – 2021	Détachement
	Two years as visiting associate professor at the Massachusetts Institute of
	Technology, Cambridge, USA
2018 – 2019	Détachement
	One year contract of research at the Higher School of Economics, Moscow, Russia
2017 – 2018	Délégation CNRS
	Six months research sabbatical awarded by the CNRS (France)
$Sept\ 2014-\\$	Maître de conférence (Associate Professor)
	Ecole Centrale de Marseille, Marseille
2013 – 2014	ATER (1-year contract assistant professor)
	École centrale de Marseille, Marseille
2010 – 2013	Moniteur (Teaching assistant)
	Université Paul Sabatier, Toulouse

## Education

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

## $Scientific\ activities$

Jun 2019	Ten days long visit with Philippe Rigollet (MIT)
	Institute of Advanced Study, Princeton (USA)
Feb 2019	Two weeks long visit with Philippe Rigollet (MIT)
	Institute of Advanced Study, Princeton (USA)
Oct 2017-Mar 2018	Five months research visit at the Higher School of
Oct 2017-Mai 2018	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
Oct 2016	Economics
	Moscow (Russia)
May 2016	Selection committee
	for an assistant professor position at the École Centrale de
	Casablanca (Morocco)
Jan-Jun 2013	Organisation of a PhD student workshop
	Institut de Mathématiques de Toulouse
0 + 2012	Organisation of the welcoming day for new PhD
Oct 2012	students in probability and statistics
	Institut de Mathématiques de Toulouse
Oct 2012	Organisation of mini-courses between PhD students
	Institut de Mathématiques de Toulouse
35 37 0040	Participations at the Hippocampe program: the
Mars et Nov 2012	scientific world for high school students
	Institut de Recherche pour l'Enseignement des
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Mathématiques de Toulouse

## $Talks\ at\ conferences\ and\ seminars$

Sept 2019 Workshop "Recent advances in mass transportation" Poncelet Center and Higher School of Economics, Moscow (Russia) Lecture at seminar course on Optimal Transport Yale University, New Haven CT (USA) Mini-course at Conference on Statistical Optimal Transport Skoltech, Moscow (Russia)  Nov 2018 Seminar of Probability and Statistics Université Paris Sud, Orsay (France)  Dec 2017 Invited Session, CFE-CMStatistics meeting University of London, London (UK)  Jul 2017 Junes IOPS - Image, Optimisation, Probabilités et Statistique Institut de Mathématiques de Bordeaux, Bordeaux  Latin American Congress of Probability and Mathematical Statistics (CLAPEM) San José (Costa Rica)  Oct 2016 Talk on Wasserstein barycenter Faculty of Mathematics, Higher School of Economics, Moscow (Russia) 2nd conference on Geometric Science of Information Ecole Polytechnique, Paris-Saclay  Jun 2015 Meeting on statistics Avignon-Marseille Université d'Avignon, Avignon  Sept 2014 Seminar of probabilities and statistics 13M, Montpellier  Feb 2014 Seminar of statistics LAREMA, Angers  Jan 2014 Workshop on PDE/Probability LATP, Marseilles  Nov 2013 Seminar of probabilities IMT, Toulouse  Aou 2013 Rencontres des jeunes statisticiens Centre Paul Langevin, Aussois  Juin 2012 Sexto encuentro of Estadística Matemática BoSanTouVal CIEM, Castro Urdiales (Spain)	Oct 2020	Applied Mathematics and Computation Seminar Amherst University, Amherst MA (USA)
Poncelet Čenter and Higher School of Economics, Moscow (Russia)  Lecture at seminar course on Optimal Transport Yale University, New Haven CT (USA)  Mini-course at Conference on Statistical Optimal Transport Skoltech, Moscow (Russia)  Nov 2018 Seminar of Probability and Statistics Université Paris Sud, Orsay (France)  Dec 2017 Invited Session, CFE-CMStatistics meeting University of London, London (UK)  Jul 2017 Statistique Institut de Mathématiques de Bordeaux, Bordeaux  Latin American Congress of Probability and Mathematical Statistics (CLAPEM) San José (Costa Rica)  Oct 2016 Talk on Wasserstein barycenter Faculty of Mathematics, Higher School of Economics, Moscow (Russia)  Oct 2015 2nd conference on Geometric Science of Information Ecole Polytechnique, Paris-Saclay  Jun 2015 Meeting on statistics Avignon-Marseille Université d'Avignon, Avignon  Sept 2014 Seminar of probabilities and statistics  I3M, Montpellier  Feb 2014 Seminar of statistics  LAREMA, Angers  Jan 2014 Workshop on PDE/Probability  LATP, Marseilles  Nov 2013 Seminar of probabilities  IMT, Toulouse  Aou 2013 Rencontres des jeunes statisticiens Centre Paul Langevin, Aussois  Juin 2012 Sexto encuentro of Estadística Matemática BoSanTouVal	Sept 2019	
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Jun 2015 Meeting on statistics Avignon-Marseille Université d'Avignon, Avignon  Sept 2014 Seminar of probabilities and statistics I3M, Montpellier  Feb 2014 Seminar of statistics LAREMA, Angers  Jan 2014 Workshop on PDE/Probability LATP, Marseilles  Nov 2013 Seminar of probabilities IMT, Toulouse  Aou 2013 Rencontres des jeunes statisticiens Centre Paul Langevin, Aussois  Juin 2012 Sexto encuentro of Estadística Matemática BoSanTouVal		Faculty of Mathematics, Higher School of Economics, Moscow (Russia)
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CIEM, Castro Urdiales (Spain)	Juin 2012	
		CIEM, Castro Urdiales (Spain)

#### Publications and preprints

#### Publications

- [1] S. Chewi, T. Le Gouic, C. Lu, T. Maunu, and P. Rigollet. "SVGD as a Kernelized Wasserstein Gradient Flow of the Chi-Squared Divergence". In: *NeurIPS* (2020).
- [2] S. Chewi, T. Le Gouic, C. Lu, T. Maunu, P. Rigollet, and A. Stromme. "Exponential Ergodicity of Mirror-Langevin Diffusions". In: *NeurIPS* (2020).
- [3] A. Ahidar-Coutrix, T. Le Gouic, and Q. Paris. "Convergence Rates for Empirical Barycenters in Metric Spaces: Curvature, Convexity and Extendable Geodesics". In: *Probability Theory and Related Fields* (2019), pp. 1–46.
- [4] E. Arias-Castro and T. Le Gouic. "Unconstrained and Curvature-Constrained Shortest-Path Distances and Their Approximation". In: *Discrete & Computational Geometry* 62.1 (2019), pp. 1–28.
- [5] T. Le Gouic. "A Note on Flatness of Non Separable Tangent Cone". In: arXiv preprint arXiv:1906.11536 (2019).
- [6] T. Le Gouic and Q. Paris. "A Notion of Stability for K-Means Clustering". In: Electronic journal of statistics 12.2 (2018), pp. 4239–4263.
- [7] T. Le Gouic and J.-M. Loubes. "Existence and Consistency of Wasserstein Barycenters". In: *Probability Theory and Related Fields* 168.3-4 (2017), pp. 901–917.
- [8] E. Boissard, T. Le Gouic, and J.-M. Loubes. "Distribution's Template Estimate with Wasserstein Metrics". In: Bernoulli 21.2 (2015), pp. 740–759.
- [9] T. Le Gouic and J.-M. Loubes. "Barycenter in Wasserstein Spaces: Existence and Consistency". In: *International Conference on Geometric Science of Information*. Springer, 2015, pp. 104–108.
- [10] E. Boissard and T. Le Gouic. "On the Mean Speed of Convergence of Empirical and Occupation Measures in Wasserstein Distance". In: *Annales de l'IHP Probabilités et Statistiques*. Vol. 50. 2. 2014, pp. 539–563.

### Preprints

- [1] T. L. Gouic and J.-M. Loubes. "The Price for Fairness in a Regression Framework". In: arXiv preprint arXiv:2005.11720 (2020).
- [2] T. Le Gouic, Q. Paris, P. Rigollet, and A. J. Stromme. "Fast Convergence of Empirical Barycenters in Alexandrov Spaces and the Wasserstein Space". In: arXiv preprint arXiv:1908.00828 (2019).
- [3] T. Le Gouic. "Recovering Metric from Full Ordinal Information". In: arXiv preprint arXiv:1506.03762 (2015).

#### TEACHING

# 2017–2018 | **96h** service • courses in probability theory (L3) • courses in statistical learning (M2) • project tutoring 2016 – 2017250h service • courses in probability theory (L3) • courses in statistical learning (M2) • courses in statistics (M1) • refresher course in probability theory to École Préparatoire teachers in Casablanca • project tutoring 2015-2016 314h service • courses in probability theory (L3,M1) • courses in statistical learning (M2) • courses in statistics (M1) • project tutoring 2014-2015 225h service • courses in probability theory (L3,M1) • courses in statistical learning (M2) • courses in statistics (M1) • project tutoring 192h service 2013-2014 • courses in probability theory (L3,M1) • courses in statistics (M1) • project tutoring