

Michele Triestino

Place and date of birth Rome (Italy), March 10th, 1987

Personal Married, one child

Present position

2016–present **Maître des conférences**, *Université Bourgogne Franche-Comté*, Institut de Mathématiques de Bourgogne, Dijon (France).

In 2018-19 I will be working at INRIA Lille (1st semester) and Laboratoire Paul Painlevé, Lille (2nd semester).

Past positions

2016 **Professor adjunto**, *UFF*, Niterói, RJ (Brazil).

2014-2016 **Post-doc**, *PUC*, Rio de Janeiro (Brazil).

2013-2014 **ATER (lecturer)**, *UMPA-ÉNS*, Lyon (France).

2010-2014 **Ph.D. Student**, *UMPA-ÉNS*, Lyon (France), Thesis: *La dynamique des difféomorphismes du cercle selon le point de vue de la mesure* (Generic dynamics of circle diffeomorphisms with respect to measure).

advisor Étienne Ghys

Main research interests

Dynamical Systems, Ergodic Theory, Geometry and Geometric Group Theory, Probability Theory.

Preprints

2018+ **Property FW, differentiable structures, and smoothability of singular actions**, joint work with Yash Lodha and Nicolás Matte Bon, submitted.

2018+ **Ping-pong configurations and circular orders on free groups**, joint work with Dominique Malicet, Kathryn Mann and Cristobal Rivas, submitted.

2018+ **Hyperbolicity as an obstruction to smoothability for one-dimensional actions**, joint work with Christian Bonatti and Yash Lodha, submitted.

2018+ **Cut-off method for endogeny of recursive tree processes**, joint work with Victor Kleptsyn.

2018+ **Groups with infinitely many ends acting analytically on the circle**, joint work with Sébastien Alvaréz, Dmitry Filimonov, Victor Kleptsyn, Dominique Malicet, Carlos Meniño and Andrés Navas, submitted.

Published works

2016 **Stationary random metrics on hierarchical graphs via (min, +)-type recursive distributional equations**, joint work with Mikhail Khristoforov and Victor Kleptsyn, *Commun. Math. Phys.* **345**, no. 1 (2016), 1–76.

2014 **Généricité au sens probabiliste dans les difféomorphismes du cercle**, *Ensaio Matemáticos* **27**, Soc. Brasil. Mat. (2014), 1–98.

2013 **On the invariant distributions of C^2 circle diffeomorphisms of irrational rotation number**, joint work with Andrés Navas, *Math.Z.* **274**, no. 1 (2013), 315–321.

Collective work

2018+ **Entropy, Lyapunov exponents, and rigidity of group actions**, Main text by Aaron W. Brown, with 4 appendices by D. Malicet, D. Obata, B. Santiago and M. Triestino, S. Alvarez and M. Roldán. Edited by M. Triestino., Lecture notes to be published in *Ensaio Matemáticos* (by Brazilian Mathematical Society).

Invitations for talks

- 2019 **Dubrovnik IX. Topology and dynamical systems**, *Dubrovnik*.
- 2019 **Seminars**, *Rennes, Bordeaux*.
- 2018 **Rencontre de la Fédération de Recherche en Mathématiques Rhône-Alpes-Auvergne**, *ENS Lyon*, (minicourse).
- 2018 **International conference on dynamical systems**, *SUSTech*, Shenzhen, China.
- 2018 **Seminars**, *Lille, Warsaw, Krakow, Amiens, Paris*.
- 2017 **Affine and one-dimensional dynamics**, *Aussois*, (minicourse).
- 2017 **Seminars**, *Grenoble, Lausanne, Avignon*.
- 2017 **Coloquio Latinoamericano de Algebra**, *PUC Quito*.
- 2017 **Beyond Uniform Hyperbolicity**, *BYU (Provo, UT)*.
- 2016 **Seminars**, *Dijon, Paris, Rio de Janeiro, Lille*.
- 2016 **1st joint meeting Brazil-Italy in Mathematics**, *IMPA (Rio de Janeiro)*.
- 2016 **International Conference on Dynamical Systems**, *Búzios (Rio de Janeiro)*.
- 2015 **Seminars**, *São Paulo, Rio de Janeiro, Nice, Paris*.
- 2015 **Frontiers in Analysis and Probability. Strasbourg/Zurich meeting**, *University of Zurich*.
- 2015 **Valparaiso's dynamics working days: Groups and low dimensional dynamics**, *PUC-Valparaiso*.
- 2015 **Workshop de Topologia & Dinâmica 2015**, Universidade Federal Fluminense, Niteroi, RJ, Brazil.
- 2014–2012 **Seminars**, *Rio de Janeiro, Paris, Amiens, Kyoto, Tokyo, Rennes, Avignon, Bern*.

Students

- 2018 **Robin Carlier**, *Stage: Homology of Outer space*, undergrad student from ENS Lyon, 6 weeks.

Organization of upcoming and past events

- 2017-2018 **Organizer of the regular seminar *Géométrie et Systèmes Dynamiques***, *IMB*, Dijon.
- 2016 **Organizer for the workshop for young researchers: *Groups acting on manifolds***, in *Teresópolis, RJ, Brazil*, from June 20th to 24th, 2016.
- 2015 **Organizer for the international summer school for students *Modern Mathematics***, at *Jacobs University, Bremen (Germany)*, from July 4th to 14th, 2015.
- 2014 **Organizer for the international summer school for students *Modern Mathematics***, at the *ENS-Lyon*, from August 20th to 29th, 2014.
- 2012 **Local organizer for the international summer school for students *ISSMYS***, at the *ENS-Lyon*, from August 20th to 29th, 2012.

Projects

- 2017 **PEPS Jeunes Chercheurs CNRS**, *Groupes localement discrets de difféomorphismes du cercle*, 4000€.