

Fabio Gironella

Curriculum Vitae

Positions

since 09/2018 **Post-doc researcher**, *Alfréd Rényi Institute of Mathematics*, Budapest.

Education

07/2018 **Ph.D. in Mathematics**, *École polytechnique*, Palaiseau.

06/2015 **Diploma**, *Ecole Normale Supérieure*, Paris.

09/2014 **Master's Degree in mathematics**, *Université Pierre et Marie Curie*, Paris.

06/2012 **Laurea Triennale (Bachelor)**, *Università di Pisa and Scuola Normale Superiore*.

Preprints

1. **Bourgeois contact structures: tightness, fillability and applications**, with Jonathan Bowden and Agustin Moreno.

Available at arXiv:1908.05749. Note that this paper supersedes arXiv:1903.11866, namely *5-dimensional Bourgeois contact structures are tight*, also joint work with Jonathan Bowden and Agustin Moreno, which is hence now withdrawn.

Accepted papers

2. **A remark on the contactomorphism group of overtwisted contact spheres**, with Eduardo Fernández.

To appear in *Comptes Rendus Mathématique*. Also available at arXiv:1910.01359

3. **Examples of contact mapping classes of infinite order in all dimensions**.

To appear in *Mathematical Research Letters*. Also available at arXiv:1809.07762

Published papers

4. **On some examples and constructions of contact manifolds**.

Math. Ann. (2019). <https://doi.org/10.1007/s00208-019-01895-4>. Also available at arXiv:1711.09800

5. **Examples of non-trivial contact mapping classes for overtwisted contact manifolds in all dimensions**.

Algebr. Geom. Topol., Volume 19, Number 3 (2019), 1207-1227. Also available at arXiv:1704.07278.

Other texts

- 07/2018 **On some constuctions of contact manifolds**, *PhD thesis*, École polytechnique, Palaiseau.
Under the supervision of Patrick Massot
- 09/2014 **Vogel's theorem: uniqueness of contact structures approximating a foliation**, *Master's project*, Université Pierre et Marie Curie, Paris.
Under the supervision of Patrick Massot
- 06/2013 **An introduction to foliations on manifolds**, *Magister's project (joint work with Gabriele Rembado)*, Ecole Normale Supérieure, Paris.
Under the supervision of Claude Viterbo
- 06/2012 **Measured foliations on surfaces and classification theorems**, *Bachelor's project*, Università di Pisa, Pisa.
Under the supervision of Bruno Martelli

Conference/Workshop research talks

- 02/2020 **CAST 2020: XIV Workshop on Symplectic Geometry, Contact Geometry, and Interactions**, *University of Antwerpen*.
- 01/2019 **Workshop on Symplectic and contact mapping class groups**, *Seoul National University*, Two talks.

Seminar research talks

- 01/2020 **UCLA Topology Seminar**, *UCLA*, Los Angeles.
- 11/2019 **Séminaire Nantes–Orsay**, *Université Paris Sud*, Orsay.
- 09/2019 **Monash Topology Seminar**, *Monash University*, Clayton.
- 07/2019 **Symplectic seminar**, *Humboldt-Universität*, Berlin.
- 04/2019 **Topology Wednesday meetings**, *Alfréd Rényi Institute*, Budapest.
- 12/2018 **Geometry Seminar**, *Justus-Liebig-Universität Gießen*, Gießen.
- 12/2018 **Oberseminar Differentialgeometrie**, *Universität Augsburg*, Augsburg.
- 09/2018 **Geometry Seminar**, *Instituto de Ciencias Matemáticas*, Madrid.
- 03/2018 **Séminaire Géométries**, *Université de Lyon I*, Lyon.
- 02/2018 **Séminaire de Topologie**, *Université Grenoble Alpes*, Grenoble.
- 11/2017 **Arbeitsgemeinschaft Symplektische Topologie**, *Universität zu Köln*, Cologne.
- 10/2017 **Séminaire Géométrie Topologie Dynamique**, *Université Paris-Sud*, Orsay.
- 05/2017 **Oberseminar Geometrie**, *Universität München*, Munich.
- 05/2017 **Séminaire Symplectix**, *Institut Henri Poincaré*, Paris.

Other talks

- 11/2019 **The group of contactomorphisms: from Sophus Lie to modern topological techniques**, *Young researchers' mini-symposium*, Alfréd Rényi Institute, Budapest.
- 02/2017 **Géométries symplectique et de contact d'un point de vue élémentaire**, *Séminaire des doctorant.e.s du CMAP/CMLS*, École polytechnique, Palaiseau.

Reáltanoda utca 13-15 – 1053 Budapest, Hungary

✉ fabio.gironella@renyi.hu • 📄 users.renyi.hu/~fabigiro/

- 04/2016 **Legendrian contact homology and augmentations**, *Working group on microlocal invariants of Legendrian knots (ANR Microlocal)*, CIRM, Marseille.
- 11/2015 **Microsupport of sheaves**, *Workshop "Quantification of exact lagrangians"*, École polytechnique, Palaiseau.

Research visits

- 11/2019 **Mathematisches Forschungsinstitut Oberwolfach**, Oberwolfach, one week.
- 09/2019 **Monash University**, Clayton, two weeks.
- 07/2019 **Humboldt-Universität**, Berlin, 5 days.
- 06/2019 **Universität Augsburg**, Augsburg, one week.
- 01/2019 **Seoul National University**, Seoul, one week.
- 01/2019 **MATRIX Mathematical Research Institute**, Creswick, 10 days.
- 12/2018 **Justus-Liebig-Universität Gießen**, Gießen, 3 days.
- 12/2018 **Universität Augsburg**, Augsburg, one week.
- 09/2018 **Instituto de Ciencias Matemáticas**, Madrid, one week.
- 05/2018 **Humboldt-Universität**, Berlin, 3 days.

Attended conferences

- 02/2020 **XIV Workshop on Symplectic Geometry, Contact Geometry, and Interactions**, *CAST 2020*, University of Antwerpen, Antwerpen.
- 08/2019 **School and International Conference on Symplectic Topology**, IMPA, Rio de Janeiro.
- 06/2019 **Homological algebra, microlocal analysis and symplectic geometry**, Université de Montréal, Montréal.
- 05/2019 **Nemethi60 – Geometry and Topology of Singularities**, Alfréd Rényi Institute, Budapest.
- 03/2019 **XIII Workshop on Symplectic Geometry, Contact Geometry, and Interactions**, *CAST 2019*, Humboldt University, Berlin.
- 01/2019 **Workshop on Symplectic and contact mapping class groups**, Seoul National University, Seoul.
- 01/2019 **Topology of Manifolds: Interactions between high and low dimensions**, MATRIX Mathematical Research Institute, Creswick.
- 06/2018 **RIEMain in Contact**, *Conference/school in contact Riemannian geometry and contact topology*, Cittadella dei Musei, Cagliari.
- 08/2016 **Workshop on Symplectic Field Theory VIII**, Humboldt University, Berlin.
- 06/2016 **Developments in Contact and Symplectic Topology**, University of Glasgow, Glasgow.
- 04/2016 **Working group on microlocal invariants of Legendrian knots**, *ANR Microlocal*, CIRM, Marseille.
- 12/2015 **Flexibility and contact geometry**, Université libre de Bruxelles, Bruxelles.

- 09/2015 **Stein Manifolds, Contact Structures and Knots**, CIRM, Marseille.
- 06/2015 **Wrinkles and h-principles, old and new**, Ludwig-Maximilians-Universität München, Munich.
- 01/2015 **IX Workshop on Symplectic Geometry, Contact Geometry and Interactions, CAST 2015**, École normale supérieure, Lyon.
- 12/2015 **Flexibility and contact geometry**, Université libre de Bruxelles, Bruxelles.
- 07/2014 **Workshop on Contact Geometry in Dimension Three and Higher**, University College London, London.
- 06/2014 **Geometric and Quantum Topology in Dimension 3**, CIRM, Marseille.

Teaching

- 2017–2018 **Exercise sessions in analysis**, École polytechnique, Palaiseau.
- 2016–2017 **Mentored the retake of the course *Introduction à l'analyse réelle***, École polytechnique, Palaiseau.
- 2016–2017 **Exercise sessions of *Formation préparatoire* for foreign students**, École polytechnique, Palaiseau.
- 2015–2016 **Supplementary exercise sessions for the course *Introduction à l'analyse réelle***, École polytechnique, Palaiseau.

Other professional activities

1. **Refereeing activity**, for: *Michigan Mathematical Journal, Geometry & Topology*.
2. **Co-organizer of the *Tournoi Français des Jeunes Mathématiciennes et Mathématiciens TFJM²***, from 2015 to 2017.

Awards/Grants

- 09/2015 **Fellowship “Chapeau Monge”**, École polytechnique.
- 09/2015 **PhD grant “Allocation spécifique pour normaliens”**, École Normale Supérieure.

Languages

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|---------|---------------------------|-------------------------------------|
| Italian | Mothertongue | |
| English | Advanced | <i>Con conversationally fluent</i> |
| French | Advanced | <i>Con conversationally fluent</i> |
| German | Currently learning | <i>Basic words and phrases only</i> |
| Spanish | Basic | <i>Basic words and phrases only</i> |