

# Fabio Gironella

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## Curriculum Vitae

### Positions

- Since 09/2020 **Post-doctoral researcher**, *Humboldt University*, Berlin.  
09/2018–08/2020 **Post-doctoral 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*.

### Papers

1. **Bourgeois contact structures: tightness, fillability and applications**, *with Jonathan Bowden and Agustin Moreno*.  
Available at arXiv:1908.05749. Submitted.
2. **Examples of contact mapping classes of infinite order in all dimensions**.  
Accepted for publication by *Mathematical Research Letters*. Also available at arXiv:1809.07762
3. **A remark on the contactomorphism group of overtwisted contact spheres**, *with Eduardo Fernández*.  
*Comptes Rendus. Mathématique*, Tome 358 (2020) no. 2, pp. 189-196. Also available at arXiv:1910.01359.
4. **On some examples and constructions of contact manifolds**.  
*Mathematische Annalen*, 376(3), 957-1008; <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

### Theses

- 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.

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- 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, Belgium*.
- 01/2019 **Workshop on Symplectic and contact mapping class groups**, *Seoul National University, South Korea*, two talks.

### Seminar research talks

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

### 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.
- 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.

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## Research visits

- ??/2021 **Instituto de Ciencias Matemáticas**, Madrid, Spain.
- 11/2019 **Mathematisches Forschungsinstitut Oberwolfach**, Germany, one week.
- 09/2019 **Monash University**, Clayton, Australia, two weeks.
- 07/2019 **Humboldt-Universität**, Berlin, Germany, 5 days.
- 06/2019 **Universität Augsburg**, Germany, one week.
- 01/2019 **Seoul National University**, Seoul, South Korea, one week.
- 01/2019 **MATRIX Mathematical Research Institute**, Creswick, Australia, 10 days.
- 12/2018 **Justus-Liebig-Universität**, Gießen, Germany, 3 days.
- 12/2018 **Universität Augsburg**, Germany, one week.
- 09/2018 **Instituto de Ciencias Matemáticas**, Madrid, Spain, one week.
- 05/2018 **Humboldt-Universität**, Berlin, Germany, 3 days.

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## Attended conferences

- 01/2020 **Geometry and Topology workshop**, UCLA, Los Angeles.
- 12/2019 **Geometric methods in Symplectic Topology**, ICMAT, Madrid.
- 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 **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.

- 12/2014 **Flexibility and contact geometry**, Université libre de Bruxelles, Bruxelles.  
07/2014 **Workshop on Contact Geometry in Dimension Three and Higher**, University College London, London.

## 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. Referee for *Geometry & Topology* and *Michigan Mathematical Journal*.

## Organization of events

1. **Co-organizer of the *Tournoi Français des Jeunes Mathématiciennes et Mathématiciens TFJM<sup>2</sup>***, from 2015 to 2017.
2. **Co-organizer of the math activities for the *Fête de la science* at Ecole Polytechnique**, from 2015 to 2018.

## A wards/Scholarships

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

## Languages

Italian (native), English (advanced), French (advanced), German (currently learning)