

# Fabio Gironella

## 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*.

### (Pre)prints

1. **Asymptotically holomorphic theory for symplectic orbifolds**, with *Vicente Muñoz and Zhengyi Zhou*.  
Available at arXiv:2201.09362.
2. **Existence of conformal symplectic foliations on closed manifolds**, with *Lauran Toussaint*.  
Available at arXiv:2111.00550.
3. **Exact orbifold fillings of contact manifolds**, with *Zhengyi Zhou*.  
Available at arXiv:2108.12247. Submitted.
4. **Examples of symplectic non-leaves**, with *Lauran Toussaint*.  
Available at arXiv:2106.02618.
5. **Bourgeois contact structures: tightness, fillability and applications**, with *Jonathan Bowden and Agustin Moreno*.  
Available at arXiv:1908.05749. Submitted.
6. **Examples of contact mapping classes of infinite order in all dimensions**.  
*Mathematical Research Letters*, vol. 23, no. 3, pp. 707–727;  
<https://dx.doi.org/10.4310/MRL.2021.v28.n3.a5>. Also available at arXiv:1809.07762
7. **A remark on the contactomorphism group of overtwisted contact spheres**, with *Eduardo Fernández*.  
*Comptes Rendus. Mathématique*, Tome 358 (2020) no. 2, pp. 189–196;  
<https://doi.org/10.5802/crmath.32>. Also available at arXiv:1910.01359.
8. **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

Rudower Chaussee 25 – 12489 Berlin, Germany

✉ [fabio.gironella.math@gmail.com](mailto:fabio.gironella.math@gmail.com) • 🌐 <https://fabiogironella.com/>

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

Algebr. Geom. Topol., Volume 19, Number 3 (2019), 1207-1227; <https://doi.org/10.2140/agt.2019.19.1207>. Also available at arXiv:1704.07278

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## 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.
- 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.

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## 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.

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## Seminar research talks

- 11/2021 **Symplectic zoominar**, *CRM-Montréal, Princeton/IAS, Tel Aviv, and Paris*.
- 11/2021 **Seminar Symplektische Geometrie**, *Humboldt-Universität, Berlin, Germany*.
- 09/2021 **Geometry and Topology seminar**, *University of Toronto Scarborough, Canada*.
- 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*.

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- 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.

## Research visits

- 01/2022 **Université de Lyon I**, France, 6 days.
- 07/2021 **Universität Regensburg**, Germany, 5 days.
- 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.

## Attended conferences/workshops

- 09/2021 **Topological Theory of Tangent Distributions**, Lorentz Center, Leiden (on Zoom).
- 04-06/2021 **Symplectic topology, contact topology, and interactions**, IHP, Paris (on Zoom).
- 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.

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- 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.

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## 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.

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## Other professional activities

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.

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## Awards/Scholarships

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

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## Languages

Italian (native), English (advanced), French (advanced), German (A2 level)