
Contact Information

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Employment

09.2025 - 02.2026 Postdoctoral researcher at the Max-Planck-Institute for Mathematics in the Sciences, Germany.
03.2025 - 08.2025 Postdoctoral researcher at Institut des Hautes Études Scientifiques in Bures-sur-Yvette, France.
09.2024 - 02.2025 Postdoctoral researcher at the Max-Planck-Institute for Mathematics in the Sciences, Germany.
11.2023 - 08.2024 Postdoctoral researcher at Institut des Hautes Études Scientifiques in Bures-sur-Yvette, France.

Education

02.2023 - 07.2023 ETH Zurich Doc.Mobility Fellowship at Sorbonne University Paris, France, with Andrés Sambarino.
04.2019 - 10.2023 Doctoral student in Mathematics at ETH Zürich, Switzerland.
08.10.2018 MSc. in Mathematics, Master thesis: *Homology of Finite Covers of Graphs* with Professor Sebastian Hensel (Final grade: 1.4).
09.2015 - 10.2018 Master studies in Mathematics at the University of Bonn, Germany.
09.2015 - 08.2016 Erasmus at the Ecole Polytechnique Fédérale de Lausanne, Switzerland.
16.07.2015 BSc. in Mathematics, Bachelor thesis: *Invariants of Quiver Representations* with Professor Catharina Stroppel (Final grade: 1.6).
10.2012 - 08.2015 Bachelor studies in Mathematics and Economics at the University of Bonn, Germany.

Publications

2024 **An incomplete real tree with complete segments**, in collaboration with Raphael Appenzeller, Luca De Rosa, Victor Jaeck.
Published in *Innov. Incidence Geom.* 21, No. 1, 35–44 (2024).
2023 **Subrepresentations in the homology of finite covers of graphs**.
Published in *Glasg. Math. J.* 65, No. 3, 582–594 (2023).

Prepublications and editorial work

2026 Θ -positive representations over real closed fields, in collaboration with

Nicolas Tholozan, Tianqi Wang, and Tengren Zhang.
Prepublication [arXiv:2601.05102](#).

- 2026 **Morphisms of generalized affine buildings**, in collaboration with Raphael Appenzeller and Victor Jaeck.
Prepublication [arXiv:2601.04130](#).
- 2026 **Holmes–Thompson area of inscribed polygons and convex projective structures**, in collaboration with Giuseppe Martone.
Prepublication, [arXiv:2601.04009](#).
- 2025 **Non-Archimedean Hilbert geometry and degenerations of real Hilbert geometries**, in collaboration with Anne Parreau.
Prepublication, [arXiv:2503.22671](#).
- 2022 **Proceedings of the workshop on Θ -positivity and higher Teichmüller theory**, edited in collaboration with Arnaud Maret.
Prepublication, [arXiv:2212.04339](#).
- 2022 **Real spectrum compactification of Hitchin components, Weyl chamber valued lengths, and dual spaces**
Prepublication, [arXiv:2208.13611](#).

Theses

- 2023 **On the real spectrum compactification of Hitchin components**, doctoral thesis, ETH Zürich, Switzerland.
- 2018 **Homology of Finite Covers of Graphs**, Master thesis, Bonn University, Germany.
- 2015 **Invariants of Quiver Representations**, Bachelor thesis, Bonn University, Germany.

Invited talks at conferences

- 09.2025 *Rencontre ANR GALS*, IHP.
- 09.2025 *Lie theory, Spectra and Dynamics*, Paderborn.
- 06.2025 *SwissKnots*, Geneva.
- 04.2025 *Leaning towards higher rank*, Pisa.
- 01.2025 *Workshop: Variétés de caractères: espaces de Berkovich et compactifications*, Paris.
- 10.2024 *20 years of Anosov representations* at the MPI for Mathematics in the Sciences, Leipzig.
- 08.2024 *Workshop: Components of character varieties*, Aussois.
- 07.2024 AMS-UMI International Joint Meeting, Special Session on *Anosov Representations and Higher Teichmüller Theory*, Palermo.
- 04.2024 *Submanifolds of locally symmetric spaces: geometric, analytic and dynamical aspects*, Autrans.
- 11.2023 *GDR Platon Parole aux jeunes chercheuses et chercheurs en géométrie et dynamique*, Université de Grenoble-Alpes.

08.2023	<i>Workshop: Metrics on higher Teichmüller spaces</i> , Fréjus.
05.2023	<i>Higgs bundles, character varieties and higher Teichmüller spaces</i> , ICMAT Madrid.
10.2022	<i>Arbeitsgemeinschaft: Higher Rank Teichmüller Theory</i> , Oberwolfach.
07.2022	AMS-SMF-EMS Joint International Meeting, Special Session on <i>Deformation Spaces of Geometric Structures</i> , Université de Grenoble-Alpes.
06.2021	<i>Nearly Carbon Neutral Geometric Topology Conference</i> , online.

Invited talks at seminars

13.03.2026	Séminaire Géométries ICJ, Université Claude Bernard Lyon.
06.2025	Séminaire Rauzy, Aix-Marseille Universié.
04.2025	Séminaire de Géométrie et Dynamique, Cergy-Pontoise.
04.2025	Séminaire Algèbre, géométrie, topologie, Université Côte d'Azur, Nice.
03.2025	Séminaire Géométrie, Algèbre, Dynamique et Topologie, Université de Bourgogne, Dijon.
10.2024	Geometry and Topology seminar, Université de Luxembourg.
10.2024	Séminaire Virtuel Francophone Groupes et Géométrie, online.
04.2024	Séminaire de théorie ergodique, Université de Rennes.
04.2024	Séminaire Géométrie dynamique, Université de Lille.
02.2024	Geometry Seminar, MPI for Mathematics in the Sciences, Leipzig.
02.2024	Séminaire Topologie et dynamique, Paris-Saclay, Orsay.
01.2024	Séminaire Géométrie et applications, Université de Strasbourg.
01.2024	Séminaire Géométrie et Topologie, Sorbonne Université, Paris.
07.2023	International Young Seminar on Bounded Cohomology and Simplicial Volume, online.
02.2023	Séminaire des Thésards d'IMJ-PRG, Paris Cité, Paris.
10.2022	Zurich Graduate Colloquium, Zurich.
05.2022	Institut des Hautes Études Scientifiques, Paris-Saclay, Bures-sur-Yvette.
01.2022	DiffGeo Seminar, University of Heidelberg.
12.2021	Geometry Graduate Colloquium, ETH Zurich.

Organisation

03.2025	Coorganiser of the ANR Meeting <i>HilbertXField</i> at Jussieu, March 24-27, 2025.
10.2024	Coorganiser of the <i>Young researchers workshop: 20 years of Anosov representations</i> at MPI Leipzig, October 7-8, 2024.
01.2024 - 06.2024	Coorganiser of the working group <i>CATCar: Compactification, analytification and tropicalization of character varieties</i> at Jussieu.

- 01.2022 Coorganiser of the *Young Researcher's Workshop on Positivity in Lie Groups* at IWH Heidelberg, January 10-14, 2022 (funded with 12.250€ by the STRUCTURES – Cluster of Excellence Young Researchers convent, <https://arnaudmaret.com/positivity/>).
- 09.2019 - 12.2021 Coorganiser of the *Geometry Graduate Colloquium* at ETH Zürich, Switzerland (funded by the Zurich Graduate School in Mathematics).

Miscellaneous

- 09.2025 - today Member of the ANR *CharGloBes: Variétés de caractères et espaces de Berkovich globaux*.
- 10.2024 Interview of François Labourie at MPI Leipzig.
- 05.2024 Talk for high school students at the *Journée d'accueil de l'IHES*.
- 09.2023 - today Member of the ANR *HilbertXField: Géométries de Hilbert sur les corps valués*.

Teaching Experience

- 10.2025 - 03.2026 Reading Seminar *Group theory meets differential geometry: Crystallographic groups and flat manifolds* in Master of Mathematics at Leipzig University, with Jacques Audibert.
- 04.2019 - 10.2023 Teaching assistant in Mathematics at ETH Zürich, Switzerland.
- 04.2017 - 09.2017 Student assistant at the University of Bonn, Germany, for the lecture *Analysis 2*.
- 02.2016 - 06.2016 Student assistant at Ecole Polytechnique Fédérale de Lausanne, Switzerland, for the lecture *Discrete Optimisation*.
- 10.2013 - 09.2015 Student assistant at the University of Bonn, Germany, for the lectures *Analysis in Multiple Variables*, *Linear Algebra 2*, *Mathematics for Geoscientists* and *Mathematics for Students of Computer Sciences*.

Skills

- Languages German (mother tongue), English (fluent, C2), French (fluent, C2), Dutch (basic knowledge, B1), Latin (Qualification in Latin)
- IT Skills LaTeX, GAP, Matlab, Python, SAGE, C++

January 9, 2026