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Tommaso Scognamiglio

Research interests

My research interests revolve around the interactions between representation theory, combinatorics and the computation of the cohomology of moduli spaces such as, for instance, quiver varieties, character varieties and moduli spaces of Higgs bundles.

Education

- 2020– **PhD in Mathematics**, *Université Paris Cité-IMJ PRG*, under the supervision of Emmanuel Letellier
- 2017–2019 Master in Mathematics, Universitá di Pisa- Scuola Normale Superiore, Pisa, Italy.
- 2015-2017 Bachelor in Mathematics, Universitá di Pisa- Scuola Normale Superiore, Pisa, Italy.

Preprints and publications

- **T. Scognamiglio**, *On the cohomology of character stacks for non-orientable surfaces*, *Geometriae Dedicata*, **218**, 13 (2024) .
- **T. Scognamiglio**, A generalization of Kac polynomials and tensor product of representation of $GL_n(\mathbb{F}_q)$, Transformation groups, (2024.)
- 2023 **T. Scognamiglio**, *Cohomology of non-generic character stacks*, arxiv :2310.01306.

Talks

- 02/2023 **Geometry Seminar**, *Universitá di Firenze*, Character varieties for non-orientable surfaces.
- 04/2023 **Differential Geometry Seminar**, *Heidelberg University*, Character varieties for non-orientable surfaces.
- 01/2024 **Algebra and Geometry seminar**, *University of Bologna*, Character stacks and varieties for Riemann surfaces.
- 01/2024 **Groups, Representations and Geometry seminar**, *IMJ-PRG*, Character stacks and varieties for Riemann surfaces.
- 01/2024 **PhD preprint seminar**, *Université Paris Cité*, Representations of quivers and finite general linear groups.

Research visits

04/2023 Heidelberg University, Invited by Florent Schaffhauser.

Teaching experience

2023-2024 Groups and Arithmetics, for second year students in Informatics, Université Paris Cité.

2023-2024	Elementary analysis and algebra , for first year students in Physics, Université Paris Cité.
2023-2024	Algebra, for third year students in Mathematics, Université Paris Cité.
2023-2024	Analysis, for second year students in Mathematics, Université Paris Cité.
2022-2023	Analysis, for second year students in Mathematics, Université Paris Cité.
2021-2022	Analysis, for third year students in Engineering, Université Paris Cité.