



Marco Volpe

Curriculum Vitae

Contact

E-mail marco.volpe@ur.de
Nationality Italian
Birth 09/07/1995, Palermo, Italy

Current

Sep 2019–Sep 2022 **PhD Student**, *Universität Regensburg*.
Advisor: Denis-Charles Cisinski
Nov 2022–Oct 2023 **Postdoc**, *Max Planck Institute for Mathematics, Bonn*.
Mentor: Tobias Barthel

Education

2016–2019 **Master Student in Pure Mathematics**, *Università degli Studi di Padova*.
Dissertation: [The Fundamental Costack](#)
Advisor: Pietro Polesello
Grade: 110/110
2013–2016 **Bachelor Student in Pure Mathematics**, *Università degli Studi di Palermo*.
Dissertation: Teorema di Seifert-Van Kampen
Advisor: Claudio Bartolone
Grade: 110/110 e lode

Teaching and organizational activities

Feb–Jun 2016 **Tutor**, LICEO SCIENTIFICO STANISLAO CANNIZZARO, Palermo.
I worked as a tutor for high school students, helping them in solving exercises and giving two introductory lectures on combinatorics and differential equations.
Apr–Jul 2022 **HIOB seminar on D-modules**, joint with Benedikt Preis and Han-Ung Kufner, Universität Regensburg.
A reading seminar on D-modules, based on the book by Hotta, Takeuchi and Tanisaki, whose main goal is to understand the proof of the Riemann-Hilbert correspondence for smooth complex algebraic varieties.

Research papers

- Jun 2021 **Whitney stratifications are conically smooth**, *preprint*, joint with Guglielmo Nocera.
- Nov 2021 **Six functor formalism with non-presentable coefficients**, *preprint*.
- Jun 2022 **Verdier duality on conically smooth stratified spaces**, *preprint*.

Invited talks

- Jun 2019 **The Fundamental Costack**, *Universität Regensburg*.
- Nov 2021 **Six functor formalism with non-presentable coefficients**, *Institut de Mathématiques de Jussieu*.
- Apr 2022 **Six operations and Atiyah duality for topological manifolds**, *Czech Academy of Science*.
- Jun 2022 **Formalismo dei sei funtori e dualità di Atiyah per varietà topologiche**, *Scuola Normale Superiore di Pisa*.

Talks in internal seminars

- Oct 2019 **Étale Fundamental Group I: Abstract Galois Theory**, *Higher Invariants Oberseminar*, Universität Regensburg.
- Oct 2019 **Fourier-Sato transformation I**, *Oberseminar "Motivic Sheaves"*, Universität Regensburg.
- Nov 2019 **Microlocalization**, *Oberseminar "Motivic Sheaves"*, Universität Regensburg.
- Dec 2019 **Infinity-topoi**, *Topics in Higher category theory*, Universität Regensburg.
- Jan 2020 **Infinite Galois Theory and the shape of nice topological spaces**, *Higher Invariants Oberseminar*, Universität Regensburg.
- May 2020 **Verdier-Lurie duality**, *Arbeitsgruppenseminar*, Universität Regensburg.
- May 2020 **Relative Atiyah duality**, *Arbeitsgruppenseminar*, Universität Regensburg.
- Jan 2021 **The homotopy image of a map, set quotients**, *Joint Seminar TUM/UR Homotopy Type Theory*, Universität Regensburg.
- Oct-Nov 2021 **Six functor formalism with non-presentable coefficients I, II and III**, *Higher Topoi and Exodromy*, Universität Regensburg, info: video recordings of the lectures available at the hyperlink in the title.
- Apr 2022 **Dévissage for higher algebraic K-theory**, *Arbeitsgruppenseminar*, Universität Regensburg.
- May 2022 **Kashiwara's theorem and applications**, *Higher Invariants Oberseminar*, Universität Regensburg.
- Jun 2022 **Orbispace and equivariant homotopy theory**, *Oberseminar "Tempered cohomology and equivariant elliptic cohomology"*, Universität Regensburg.
- Jul 2022 **Verdier duality on conically smooth stratified spaces**, *Higher Topoi and Exodromy*, Universität Regensburg.

Conferences

- Feb 2018 **Riemann-Hilbert Correspondences**, *Università degli Studi di Padova*.
- Jun 2018 **Toposes in Como**, *Università dell'Insubria*.
- Apr 2019 **Workshop on Derivators**, *Universität Regensburg*.
- May 2019 **PSSL 105**, *Università degli Studi di Palermo*.
- Jul 2020 **Descent in algebraic K-theory**, *Universität Regensburg*, online.
- Aug 2020 **Workshop on infinity-categories and their applications**, *Max Planck Institute for Mathematics, Bonn*, online.
- Feb 2022 **Logic and higher structures**, *Centre International de Rencontres Mathématique, Marseille*.
- Jun 2022 **CATS-60**, *IMT, Toulouse*.
- Jun 2022 **Twinned Conference on Homotopy Theory with Applications to Arithmetic and Geometry**, *Max Planck Institute for Mathematics, Bonn*.
- Sep 2022 **Young Researchers Meeting in Algebra and Geometry 2022**, *SISSA, Trieste*.

Languages

- Italian **Mothertongue**
- English **Fluent**