

Emanuele Dotto, CV

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Personal

Born on November 10th, 1985

Swiss Citizen

Languages

Italian, French, English



Research

Algebraic topology: real algebraic K -theory, topological Hochschild/cyclic homology, trace maps, homotopy theory of forms, equivariant homotopy theory, Witt vectors.

Education

PhD Mathematics, University of Copenhagen, December 14th 2012

Adviser: Ib Madsen

Thesis: Stable Real K -theory and Real Topological Hochschild Homology.

MA Mathematics, EPFL/NTNU, 2009

Advisers: Kathryn Hess-Bellwald, Andrew Stacey

MA Thesis: A Survey of Index Theory and a Calculation of the Truncated Equivariant Witten Genus.

BA Mathematics, EPFL, 2007.

Employment

Associate Professor, University of Warwick, July 2023-present

Assistant Professor, University of Warwick, September 2019-June 2023

Postdoc, Hausdorff Center for Mathematics Bonn, August 2016-August 2019.

C.L.E. Moore Instructor, MIT, September 2013-June 2016.

Postdoc, University of Copenhagen, February-August 2013.

Grants

EPSRC New Investigator Award, 2022-2025.

LMS Scheme 3 grant for the Cambridge-Oxford-Warwick homotopy and manifolds seminar, 2020-2022.

3-years funding from the DFG under the SPP 1786 Priority Program, August 2018-July 2021.

Selected Presentations

- Invited lecture series: Parametrised homotopy theory, Copenhagen, September 2023
- Homotopy Theory, K-theory, and Trace Methods, (in honour of Bjørn Dundas), Nijmegen, July 2023
- Invited lecture series: Hermitian K-theory of stable infinity-categories, Nijmegen, March 2023
- Mittag-Leffler Institute seminar, Stockholm, March 2022.
- Electronic Computational Homotopy Theory Research Seminar, Wayne State (online), November 2021.
- Opening workshop CRM program Higher Homotopical Structures, Barcelona, January 2021.
- Bonn topology seminar, January 2020.
- Operads, Calculus and Homotopy theory methods in Topology, Lausanne, December 2019.
- Oxford topology seminar, November 2019.
- Algebraic Geometry and Homotopy Theory, Nijmegen, October 2019.
- SPP Jahrestagung, Essen, September 2019.
- Stockholm topology seminar, April 2019.
- Equivariant homotopy theory and K-theory, Berlin, June 2018.
- Topology meeting, University of Oslo, May 2018.
- K-theory, A_1 -homotopy and quadratic forms, University of Warwick, February 2018.
- K-theory and related Fields, Hausdorff Institute for Mathematics, June 2017.
- Stockholm Topology Seminar, January 2017.
- Higher geometric structures along the Lower Rhine, MPIM Bonn, December 2016.
- EPFL Topology Seminar, November 2016.
- Alpine Algebraic and Applied Topology Conference, Saas-Almagell, Switzerland, August 2016.
- Massachusetts Institute of Technology Topology Seminar, April 2016.
- Münster Leray Seminar, January 2016.
- Massachusetts Institute of Technology Topology Seminar, May 2015.
- Johns Hopkins Topology Seminar, April 2015.
- UVA Topology Seminar, February 2015.
- Ohio State K-theory and motivic homotopy theory seminar, November 2014.
- Stanford Topology Seminar, November 2014.
- Midwest Topology Seminar, October 2014.
- Dubrovnik conference on Manifolds, K-theory and Related Topics, June 2014.
- University of Chicago Topology Seminar, April 2014.
- Northwestern Topology Seminar, March 2014.
- Massachusetts Institute of Technology Topology Seminar, February 2014.

Teaching

Research Students

Hannah Macdermott, Warwick, PhD expected 2025.

Thomas Read, Warwick, PhD expected 2025.

Julie Rasmusen, Warwick, PhD expected 2024.

David Tintinago-Pinzon, Warwick, PhD expected 2024.

Julius Frank, Master Thesis, Bonn, 2020

Hermitian Mackey functors and ring-spectra with anti-involution.

Robis Stoll, Master Thesis, Bonn, 2019

A version of Goodwillie calculus for non-cubes.

Fernando Abellán-García, Master Thesis, Bonn, 2018

On equivariant versions of the associative operad.

Zhulin Li, Undergraduate Research Opportunities Program, MIT, 2015

Box product of Mackey functors in terms of modules, arXiv:1509.07051.

Yuzhou Gu, Undergraduate Research Opportunities Program, MIT, 2015-2016

Generalized equivariant model structures on Cat^I , To appear in the Journal of Homotopy and Related Structures, arXiv:1605.07983.

Activities

Organiser Follow-up Workshop to JTP "Topology", Hausdorff Research Institute for Mathematics, Bonn, 2022.

Organiser LMS online lecture series on *Exotic Spheres*, 2020.

Organiser of the 29. *NRW topology meeting*, University of Bonn, 2018.

Organiser workshop *Hermitian K-theory and trace methods*, Hausdorff Institute for Mathematics, 2016.

Math en Jeans: research projects with school children at *Prins Henrik skole*, Copenhagen, 2012.

Organiser conference *Young Topologists Meeting 2010*, University of Copenhagen.

Teaching Assistant for *Cours Euler*: mathematics high school program for extraordinarily talented children, EPFL, 2009.