

Ismael Sierra

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Mathematical Statistics
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Education

DPhil Mathematics, Cambridge University, (2019–)

Supervisor: Professor O. Randal-Williams.

MMath Mathematics, Cambridge University, (2015–2019)

Grants, Honours and Awards

Smith-Rayleigh and Knight-Rayleigh Price, Group 2, 2021.

Research Scholarship Trinity College Cambridge, 2019.

Publications and Preprints

Ismael Sierra, *Homological stability of diffeomorphism groups of high dimensional manifolds via E_k -algebras*.

Talks, Conferences and Seminars

European Autumn School in Topology 2022; Utrecht, September 26-30, 2022.

Splitting complexes– Young Topologists Meeting; Copenhagen, July 18-22, 2022.

Homological stability of diffeomorphism groups and splitting complexes of manifolds– British Topology Meeting; Durham University, April 12-14, 2022.

Homological stability of diffeomorphism groups and splitting complexes of manifolds– Algebra/Topology Seminar; University of Copenhagen, February 4, 2022.

Homological stability of diffeomorphism groups and splitting complexes of manifolds– Purdue Zoom topology seminar (online), September 22, 2021.

Oberwolfach Seminar: Cellular E_k -Algebras (hybrid meeting), May 23-29, 2021.

E_k -algebras and diffeomorphism groups– Young Topologists Meeting (online), July 5-16, 2021.

Heidelberg Laureate Forum 2017; Heidelberg, September 24-29, 2017.

Teaching Experience

Supervisor (at Cambridge University)

IB Analysis and Topology, Michaelmas 2019.

II Algebraic Topology, Michaelmas 2019, revision Easter 2020, Michaelmas 2020, revision Easter 2021, Michaelmas 2021, revision Easter 2022.

IB Geometry, Lent 2020, revision Easter 2020, Lent 2021, revision Easter 2021, Lent 2022.

II Differential Geometry, Lent 2020, revision Easter 2020, Lent 2021, revision Easter 2021, Lent 2022, revision Easter 2022.