

Abhishek Mallick

CONTACT INFORMATION	Mathematical Sciences Research Institute (SLMath) Berkeley 17 Gauss way, 94720, Berkeley, CA, USA. Email: mallick@mpim-bonn.mpg.de
RESEARCH INTERESTS	Low dimensional topology. Floer homology. Equivariant Floer homology. Khovanov homology.
EMPLOYMENT	Mathematical Sciences Research Institute (SLMath), Berkeley Postdoctoral Fellow Fall, 2022 Max-Planck-Institut für Mathematik, Bonn Postdoctoral Research Fellow 2021-22
EDUCATION	Michigan State University Ph.D. Mathematics 2021 • Advisor: Matthew Hedden Ramakrishna Mission Vivekananda Educational and Research Institute, India M.Sc. in Mathematics, 2015
PUBLICATIONS	Rank-expanding satellites, Whitehead doubles, and Heegaard Floer homology arXiv preprint (with Dai, Hedden and Stoffregen). The (2,1)-cable of the figure-eight knot is not smoothly slice arXiv preprint (with Dai, Kang, Park and Stoffregen). Knot Floer homology and surgery on equivariant knots arXiv preprint . Equivariant knots and knot Floer homology arXiv preprint (with Dai and Stoffregen). Corks, Involutions, and Heegaard Floer Homology. To appear in the Journal of the European Mathematical Society , (with Dai and Hedden).
INVITED TALKS	<i>Stanford University, Topology seminar, 2022.</i> <i>MSRI, Berkeley, Floer homotopy theory program seminar, 2022.</i> <i>Princeton University, Topology seminar, 2022.</i> <i>IBS Center for Geometry and Physics, CGP seminar, 2022.</i> <i>Max Planck Institute for Mathematics, Surfaces in 4-manifolds, 2022.</i> <i>American Institute of Mathematics, Program on 4-manifolds, virtual, 2021.</i>

American Mathematical Society, special session on the Topology and Geometry of 3- and 4-manifolds, at the AMS Southeastern Sectional Meeting, virtually at Georgia Tech 2021.

Joint Mathematics Meetings: AMS Special Session on Low Dimensional Topology, I (Associated with AMS Invited Maryam Mirzakhani Lecture), virtual conference, 2021.

Nearly Carbon Neutral Geometry Topology Conference, mini-session on 4-manifolds, virtual conference, 2020.

American Mathematical Society, Sectional Meeting; Special Session on Low-dimensional Topology, Purdue University (canceled), 2020.

University of Virginia, Geometry Seminar, 2020.

HONORS AND AWARDS

2010–2015	Jagadis Bose National Science Talent Search Scholarship.
2010–2015	Innovation in Science Pursuit for Inspired Research Fellowship, Department of Science and Technology, Govt.of India.
2016	Paul and Wilma Dressel Endowed Scholarship, MSU.
2016	College of Natural Science Dissertation Continuing Fellowship, MSU.
2018	Paul and Wilma Dressel Endowed Scholarship, MSU.
2020	Douglas A. Spragg Endowed Fellowship in Mathematics, MSU.
2020	College of Natural Science Dissertation completion Fellowship, MSU.

TEACHING EXPERIENCE

Summer	2016	Lecturer, Calculus II (Integration, Series, Sequence)
Fall	2016	Lecturer, Calculus II (Integration, Series, Sequence)
Spring	2017	Lecturer, Calculus IV (Differential Equation)
Summer	2017	Lecturer, Calculus IV (Differential Equation)
Fall	2017	Teaching Assistant, Transition to Proofs
Spring	2018	Teaching Assistant, Calculus III (Multivariable Calculus)
Fall	2018	Teaching Assistant, Calculus III (Multivariable Calculus)
Spring	2019	Grader, Graduate course on Algebraic Topology
Summer	2019	Lecturer, College Algebra
Fall	2019	Teaching Assistant, Calculus III (Multivariable Calculus)
Spring	2020	Teaching Assistant, Calculus III (Multivariable Calculus)

PROFESSIONAL SERVICE

Referee for *Advances in Mathematics, Algebraic & Geometric Topology*

ORGANIZATION

Co-organized *Graduate Student Topology and Geometry Conference, MSU, 2017.*

Weekly Departmental student Geometry and Topology seminar, MSU, 2017-2018.

Leading teaching assistant at MSU for Spring-17, Fall-18, Fall-19 and Spring-20.

Nearly Carbon Neutral Geometry Topology Conference, co-organized a mini-session, virtual conference, 2021.

OUTREACH

Mentor for a non-profit organization, *Padakshep*, based in India, which supports under-privileged meritorious school students with financial assistance and academic guidance.