

Abhishek Mallick

CONTACT INFORMATION	Max-Planck-Institut für Mathematik Department of Mathematics B-12, Vivatsgasse 7, 53111, Bonn, Germany. Email: mallick@mpim-bonn.mpg.de
RESEARCH INTERESTS	Low dimensional topology. Floer homology. Equivariant Floer homology.
EMPLOYMENT	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 M.Sc. in Mathematics, 2015
PUBLICATIONS	<u>Corks, Involutions, and Heegaard Floer Homology</u> . To appear in the Journal of the European Mathematical Society , (with Dai and Hedden). <u>Equivariant knots and knot Floer homology</u> arXiv preprint (with Dai and Stoffregen). <u>Knot Floer homology and surgery on equivariant knots</u> arXiv preprint .
INVITED TALKS	<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> <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.</i> <i>Joint Mathematics Meetings: AMS Special Session on Low Dimensional Topology, I (Associated with AMS Invited Maryam Mirzakhani Lecture), virtual conference, 2021.</i> <i>Nearly Carbon Neutral Geometry Topology Conference, mini-session on 4-manifolds, virtual conference, 2020.</i> <i>American Mathematical Society, Sectional Meeting; Special Session on Low-dimensional Topology, Purdue University (canceled), 2020.</i> <i>University of Virginia, Geometry Seminar, 2020.</i>

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 <i>Algebraic & Geometric Topology</i>	
ORGANIZATION	Co-organized <i>Graduate Student Topology and Geometry Conference, MSU, 2017.</i>	
	<i>Weekly Departmental student Geometry and Topology seminar, MSU, 2017-2018.</i>	
	<i>Leading teaching assistant at MSU for Spring-17, Fall-18, Fall-19 and Spring-20.</i>	
	<i>Nearly Carbon Neutral Geometry Topology Conference, co-organized a mini-session, virtual conference, 2021.</i>	
OUTREACH	Mentor for a non-profit organization, <i>Padakshep</i> , based in India, which supports under-privileged meritorious school students with financial assistance and academic guidance.	