

Yash Uday Deshmukh

CITIZENSHIP	India
CONTACT INFORMATION	Max Planck Institute for Mathematics Vivatsgasse 7 53111 Bonn, Germany Email : deshmukh@mpim-bonn.mpg.de Webpage : https://guests.mpim-bonn.mpg.de/deshmukh/
RESEARCH INTEREST	Symplectic Topology, Mirror Symmetry, Homotopical Algebra related to Symplectic Topology.
EMPLOYMENT	Max Planck Institute for Mathematics Postdoctoral fellow, Sep 2023 - Present
EDUCATION	Columbia University Ph.D in Mathematics, May 2023 Advisor: Mohammed Abouzaid Chennai Mathematical Institute M.Sc. in Mathematics, May 2018 Master's thesis: <i>Construction of Symplectic Cobordisms</i> Advisor: Prof. Dishant Pancholi (IMSc, Chennai) CGPA 9.91/10 Chennai Mathematical Institute B.Sc.(Hons.) in Mathematics and Computer Science, May 2016 CGPA 9.76/10
VISITS	École Normale Supérieure, Paris, Summer 2016 Scientific Advisor: Claude Viterbo CMI-ENS Exchange Program
FELLOWSHIPS AND AWARDS	Dean's fellowship , Graduate School of Arts and Science, Columbia University Gold Medal of Excellence , Chennai Mathematical institute, 2018 M.Sc. Fellowship , Chennai Mathematical Institute , 2016-2018 Inspire Scholarship awarded by the Department of Science and Technology, Government of India, 2013-2016
PUBLICATIONS AND PREPRINTS	A homotopical description of Deligne-Mumford compactifications , arXiv:2211.05168
INVITED TALKS	Humboldt University, Berlin-Hamburg Symplectic Seminar , November, 2023. Max Planck Institute for Mathematics, MPIM Oberseminar , November, 2023. Max Planck Institute for Mathematics, Bonn Symplectic Seminar , September, 2023.

Institute for Mathematical Sciences (Chennai), Mathematics Colloquium, August, 2023.

Chennai Mathematical Institute, Mathematics Colloquium, August, 2023.

University of Edinburgh, EDGE seminar, April, 2023.

Stanford University, Symplectic Geometry Seminar, March, 2023.

University of Louisiana at Lafayette, Topology Seminar, March 2023.

Hebrew University of Jerusalem, Geometry and Topology Seminar, January, 2023.

Symplectic Zoominar (CRM-Montreal, Princeton/IAS, Tel Aviv, and Paris Virtual Seminar), November, 2022.

Western Hemisphere Virtual Symplectic Seminar, October 2022.

MIT Symplectic Seminar, September 2022.

Simons Center for Geometry and Physics/Stony Brook University, Low Dimensional Topology, Gauge Theory and Symplectic Geometry Seminar, September 2022.

Columbia University, Symplectic Geometry, Gauge Theory, and Categorification Seminar, September 2022.

Uppsala University, Geometry and Topology Seminar, June 2022.

Institute of Mathematical Sciences (Chennai), Mathematics Colloquium, June 2022.

University of Southern California, Topology seminar, April 2022.

Institute of Mathematical Sciences (Chennai), Mathematics Colloquium, March 2018.

Chennai Mathematical Institute, March 2018.

WORKSHOPS,
CONFERENCES
ATTENDED

SYNC Early Career Workshop, August 2022, University of California, Davis.

Homotopical Methods in Fixed point theory, July 2022, University of Colorado, Boulder.

Frontiers of Quantitative Symplectic and Contact Geometry, July 2022, Institut Mittag-Leffler, Sweden.

Homotopical Methods in Geometry and Physics, Mar 2022, Northwestern University.

Recent developments in Lagrangian Floer theory, Mar 2022, Simons Center for Geometry and Physics.

Simons Collaboration on Homological Mirror Symmetry Annual Meeting, Nov 2021, Simons Foundation.

Simons Collaboration on Homological Mirror Symmetry Annual Meeting, Nov 2020, Virtual Conference.

Floer-theoretic and algebro-geometric aspects of SYZ mirror symmetry, Sep 2020, Virtual Conference.

Homological Mirror Symmetry and Topological Recursion, Jan 2020, Miami.

Simons Collaboration on Homological Mirror Symmetry Annual Meeting, Nov 2019, Simons Foundation.

Current trends in Symplectic Topology July 2019, CRM Montreal.

J-Holomorphic Curves and Gromov-Witten Invariants, Dec 2017, ICTS Bangalore.

ATM Workshop on Differential Geometry, July 2017, IISER Pune.

AIS School on h-Principle, May 2017, ISI Kolkata.

ATM Workshop on Algebraic Structures on Manifolds, December 2016, ISI Kolkata.

TEACHING
EXPERIENCE

Instructor:

Fall 2021, Instructor, Calculus II, Columbia University.

Teaching Assistant:

Fall 2022, Teaching Assistant, Calculus III, Columbia University.

Spring 2022, Teaching Assistant, Calculus III, Columbia University.

Spring 2021, Teaching Assistant, Modern Geometry (Graduate Course), Columbia University.

Fall 2020, Teaching Assistant, Calculus II, Columbia University.

Spring 2020, Teaching Assistant, Calculus III, Columbia University.

Fall 2019, Teaching Assistant, Calculus II, Columbia University.

Fall 2017, Teaching Assistant, Introduction to Manifolds, Chennai Mathematical Institute.

Spring 2017, Algebra III (undergraduate ring theory and field theory), Chennai Mathematical Institute.

Fall 2016, Teaching Assistant, Chennai Mathematical Institute.

SERVICES

Microlocal Sheaf Theory Learning Seminar, Columbia University, Co-organizer, Fall 2022.

Directed Reading Program at Columbia University, Mentor, Fall 2020, Topic: Differential Topology.

LANGUAGES

Marathi (Native)

Hindi (Fluent)

English (Fluent)