Apurva Nakade

EDUCATION

Ph.D.
in Mathematics,
Johns Hopkins University, (expected) **2019**

M.Sc.
in Mathematics,
Chennai Mathematical Institute, India, **2013**

B.Tech.
in Computer Science & Engineering,
IIT Kanpur, India, **2010**

CONTACT

5th year Grad Student,
Mathematics Department,
Johns Hopkins University.
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INTERESTS

Homotopy theory, Algebraic topology, Knot Theory, Mathematical Physics, Symplectic Topology, Math Education, Web design

PAPERS

1. Manifold Calculus and the H-principle, (submitted)
2. Effect of increasing the energy gap between the two lowest energy states on the mixing time of the Metropolis algorithm, (with Somenath Biswas) Information Processing Letters, IPL4801

CURRENT PROJECTS

1. Knot Theory something something
2. Equivariant Manifold Calculus

RESEARCH TALKS

1. Manifold Calculus and the H-principle, JHU Topology Seminar, Feb 2018
2. Homotopy colimits and limits, European Autumn School in Topology, 2017
3. Manifold Calculus and the H-principle, AMS Special Session in Homotopy Theory, 2017

TEACHING

MATHCAMP

1. Academic Coordinator
2. Mentor

JHU

1. H2G2 Algebraic Topology
2. IBL Honors Calculus
3. IBL Symmetries and Polynomials

MISC

1. Prof. Joel Dean award, JHU
2. Direct Reading Program, JHU
3. Algebra Qual Prep, JHU

SERVICE CLASSES

1. Instructor: Calculus II, Differential Equations, (Online) Linear Algebra

2. TA: Calculus I, II and III, Hon. Linear Algebra, Hon. Multivariable Calculus, Compact Riemann Surfaces, Advanced Algebra

CONFERENCES ATTENDED

1. Science of Learning Symposium, JHU 2014, 16, 18
2. Graduate Student Conference, Temple University
3. AMS Sectional Meeting, UC Riverside
4. European Autumn School in Topology, Netherlands
5. Topology Festival, Cornell University
6. Georgia International Topology Conference, University of Georgia
7. Alpine Algebraic & Applied Topology Conference, Switzerland
8. WCATSS, University of Oregon, Eugene
9. GSTSC, Indiana University, Bloomington
10. Mid-Atlantic Topology Conference, Johns Hopkins University
11. Midwest Topology Seminar, Northwestern University
12. Geometry and Topology Conference, Lehigh University
13. Mid-Atlantic Topology Conference, University of Virginia
14. Midwest Topology Seminar, University of Illinois Chicago
15. Midwest Topology Seminar, Northwestern University
16. Modular invariants in Topology and Analysis, Regensburg
17. WCATSS on Field theories, UBC
18. Introductory Workshop on Algebraic Topology, MSRI
19. Joint Mathematical Meetings, Baltimore
20. Classification of Manifolds, NEHU
21. H-principle, Chennai Mathematical Institute
22. Groups and geometries, ISI Bangalore
23. String Topology, Vivekananda University
24. Kervaire Invariant One, ISI Kolkata
25. Number Theory workshop, Tezpur University
26. Lie algebras and their representations, CMI
27. Nurture camp, Institute of Mathematical Sciences

PRE COLLEGE

1. **IMO bronze medal**, Slovenia, highest scorer from India
2. **273 rank** at Indian Institutes of Technology
3. Elegant solution award at IMO training camp
4. National Talent Search Examination, (NTSE) scholarship
5. Kishore Vaigyanik Protsahan Yojana, (KVPY) scholarship

OTHER INTERESTS

Web Design

I've designed and maintain a blog on Github using Hugo, SASS, JQuery

Misc

Writing, Dancing, Yoga, Hiking, Backpacking