Apurva Nakade

 $\begin{array}{ll} \mbox{Johns Hopkins University,} & \mbox{anakade1@jhu.edu} \\ \mbox{Department of Mathematics} & \mbox{math.jhu.edu/}{\sim} \mbox{anakade1} \end{array}$

Interests	Homotopy theory, Algebraic topology, Mathematical Physics, Symplectic Topology, Math Education, Web design	
Education	Ph.D. in Mathematics, Johns Hopkins University M.Sc. in Mathematics, Chennai Mathematical Institute B.Tech. in Computer Science & Engineering, IIT Kanpur	(expected) 2019 2013 2010
Papers	Manifold Calculus and the H-principle (submitted)	2017
	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 (2012.08.012)	2012
Research Talks	Homotopy colimits and limits European Autumn School in Topology	2017
	Manifold Calculus and the H-principle AMS Special Session in Homotopy Theory	
Teaching & Mentoring	Prof. Joel Dean award for Excellence in Teaching in Mathematics	2016
	Direct Reading Program, JHU guided an undergraduate student towards learning Knot theory	2017
	USA/Canada Mathcamp, Mentor taught and designed several courses at a math enrichment camp for high school students, and was a residential and academic advisor	
	$\it H2G2$ Algebraic Topology, JHU designed and taught short course introducing non-maths majors to algebraic topology	
	$IBL\ Honors\ Calculus,\ JHU$ designed and taught a full semester IBL styled course for Calculus	
	$Symmetries \ \& \ Polynomials, \ JHU$ will be teaching a short course introducing non-maths majors to Galois theory	2018
	Algebra Quals Prep, JHU coached the first year graduate students for the algebra quals	2015-16
	Science of Learning Symposium, JHU attended a biannual two day conference at JHU aimed at understanding the science behind learning	2014-18

Service	Instructor, JHU	2015
Courses	Honors Single Variable Calculus	2017
	Calculus II	2016
	Differential Equations	2015
	(Online) Linear Algebra	2014
	TA, JHU	2013-
	Calculus I, II and III, Hon. Linear Algebra, Hon. Multivariable Calculus	
	TA, CMI	2012
	Compact Riemann Surfaces, Advanced Algebra	
Conferences	AMS Sectional Meeting, UC Riverside	2017
Attended	European Autumn School in Topology, Netherlands	
	Topology Festival, Cornell University	
	Georgia International Topology Conference, University of Georgia	
	Alpine Algebraic & Applied Topology Conference, Switzerland	2016
	WCATSS, University of Oregon, Eugene	
	GSTSC, Indiana University, Bloomington	
	Mid-Atlantic Topology Conference, Johns Hopkins University	
	Midwest Topology Seminar, Northwestern University	
	Geometry and Topology Conference, Lehigh University	2015
	Mid-Atlantic Topology Conference, University of Virginia	
	Midwest Topology Seminar, University of Illinois Chicago	
	Midwest Topology Seminar, Northwestern University	
	Modular invariants in Topology and Analysis, Regensburg	
	WCATSS on Field theories, UBC	
	Introductory Workshop on Algebraic Topology, MSRI	
	Joint Mathematical Meetings, Baltimore	
	Classification of Manifolds, NEHU	2013
	H-principle, Chennai Mathematical Institute	2012
	Groups and geometries, ISI, Bangalore	
	String Topology, Vivekananda University	
	Kervaire Invariant One, ISI, Kolkata	
	Number Theory workshop, Tezpur University	2011
	Lie algebras and their representations, CMI	
	Nurture camp, Institute of Mathematical Sciences	2007
Pre-College	IMO bronze medal, Slovenia, highest scorer from India	2006
The conege	273 rank at Indian Institutes of Technology (IITs)	2006
	Elegant solution award at IMO training camp	2000
	Cleared national astronomy and regional physics and chemistry olympiads	
	Cleared national mathematics olympiad in the ninth grade	2003
	National Talent Search Examination, (NTSE) scholarship	2000
	Kishore Vaigyanik Protsahan Yojana, (KVPY) scholarship	
Other	$Web\ Design,$	
Interests	I've designed and maintain a blog on Github using Hugo, SASS, JQuery	
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	Expository Math Writing	
	I have degene of notes from various courses, conferences, and research available	

I have dozens of notes from various courses, conferences, and research available

freely on my website