Apurva Nakade

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Department of Mathematics math.jhu.edu/∼anakade1

Education

Ph.D. in Mathematics, Johns Hopkins University -
M.Sc. in Mathematics, Chennai Mathematical Institute 2012
B.Tech. in Computer Science, IIT Kanpur 2010

Research

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

Talks

Homotopy colimits and limits
European Autumn School in Topology 2017

Manifold Calculus and the H-principle
AMS Special Session in Homotopy Theory

Teaching

Prof. Joel Dean award for Excellence in Teaching in Mathematics 2016

Direct Reading Program 2017

USA/Canada Mathcamp, Mentor
Taught and designed courses and was a residential and academic advisor

Johns Hopkins University
designed and taught an intersession course titled *H2G2 Algebraic Topology*

Service

Johns Hopkins University, Instructor
Honors Single Variable Calculus 2017
Calculus II 2016
Differential Equations 2015
(Online) Linear Algebra 2014

Johns Hopkins University, TA (2013 - 2017)
Calculus I, II and III, Hon. Linear Algebra, Hon. Multivariable Calculus

CMI, TA 2012
Compact Riemann Surfaces, Advanced Algebra

Conferences	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	2014
	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
Etc.	**IMO bronze medal**, Slovenia, highest scorer from India	2006
	2006, elegant solution award at IMO training camp	
	Cleared national astronomy olympiad and regional physics and chemistry olympiad	
	Cleared national mathematics olympiad in the ninth grade	
	National Talent Search Examination, (NTSE) scholarship	
	Kishore Vaigyanik Protsahan Yojana, (KVPY) scholarship	
	273 rank at Indian Institutes of Technology (IITs)	
	2009, Selected for ACM ICPC Kanpur regionals	