

PRITISH KAMATH

550 Memorial Drive, Apt 8D-3,
Cambridge, MA - 02139

pritish@mit.edu
www.mit.edu/~pritish

RESEARCH INTERESTS	Complexity Theory, Coding Theory and Applied Probability and Statistics.	
EDUCATION	PhD. [June 2015 - ongoing] Massachusetts Institute of Technology , Cambridge, MA, USA Electrical Engineering and Computer Science <i>Advisors:</i> Madhu Sudan (Harvard), Ronitt Rubinfeld (MIT)	
	S.M. [August 2013 - June 2015] Massachusetts Institute of Technology , Cambridge, MA, USA Electrical Engineering and Computer Science <i>Advisor:</i> Madhu Sudan (Microsoft Research New England, MIT) <i>S.M. Thesis:</i> Communication complexity of permutation-invariant functions	
	B.Tech. (Honours in CSE + Minor in Mathematics) [July 2008 - April 2012] Indian Institute of Technology Bombay , Mumbai, INDIA Department of Computer Science and Engineering CGPA (core) = 9.70/10.0; CGPA (overall) = 9.77/10.0 <i>B.Tech. Advisor:</i> Supratik Chakraborty <i>B.Tech. Thesis:</i> Studies on Preservation Theorems and Weaker Ehrenfeucht-Fraïssé games	
OTHER EXPERIENCE	Research Assistant, Microsoft Research India , Bangalore, India <i>Lower Bounds in Arithmetic Complexity Theory</i>	Neeraj Kayal June 2012 - July 2013
	Research Intern, IST, Austria <i>Efficient algorithms for computing simulation relations between systems</i>	Krishnendu Chatterjee May - July 2011
	Research Intern, INRIA, Rennes-Bretagne, France <i>Protein Classification via Maximum Cliques on Alignment graphs</i>	Rumen Andonov May - July 2010
PUBLICATIONS /MANUSCRIPTS	◇ Communication complexity of permutation-invariant functions <i>Badih Ghazi, Pritish Kamath, Madhu Sudan</i> Symposium on Discrete Algorithms (SODA), 2016 (to appear) [pdf]	
	◇ Communication with partial noiseless feedback <i>Bernhard Haeupler, Pritish Kamath, Ameya Velingker</i> International Workshop on Randomization and Computation (RANDOM), 2015 [pdf]	
	◇ Arithmetic circuits: A chasm at depth three <i>Ankit Gupta, Pritish Kamath, Neeraj Kayal, Ramprasad Saptharishi</i> Foundations of Computer Science (FOCS), 2013 [pdf]	

- ◇ **Approaching the chasm at depth four**
Ankit Gupta, Pritish Kamath, Neeraj Kayal, Ramprasad Saptharishi
IEEE Conference on Computational Complexity (CCC), 2013 (**Best Paper Award**) [pdf]
- ◇ **Preservation under substructures modulo bounded cores**
Abhisekh Sankaran, Bharat Adsul, Vivek Madan, Pritish Kamath, Supratik Chakraborty
International Workshop on Logic, Language, Information and Computation (WoLLIC), 2012 [pdf]
- ◇ **Faster algorithms for alternating refinement relations**
Krishnendu Chatterjee, Siddhesh Chaubal, Pritish Kamath
Computer Science and Logic (CSL), 2012 [pdf]
- ◇ **Using dominances for solving the protein family identification problem**
Noël Malod-Dognin, Mathilde Le Boudic-Jamin, Pritish Kamath, Rumén Andonov
Workshop on Algorithms in Bioinformatics (WABI), 2011 [pdf]

ACADEMIC
AWARDS AND
HONORS

POST-UNDERGRADUATE

- ◇ **Akamai Presidential Fellowship** (MIT) 2013-2014
- ◇ **Best Paper Award** (*co-winner*) at CCC 2013

UNDERGRADUATE

- ◇ **President of India Gold Medal** for best academic performance in the graduating batch across all disciplines of B.Tech programme at IIT Bombay
- ◇ **Institute Silver Medal** for best academic performance in the graduating batch of B.Tech programme in the Computer Science and Engineering Dept, IIT Bombay
- ◇ **Minor in Mathematics** with GPA of 10.0/10.0

PRE-UNDERGRADUATE

- ◇ **All India Rank of 21** in IIT Joint Entrance Examination 2008 (among 375,000 students)
- ◇ **All India Rank 41** (State Rank 3) in All Indian Engineering Entrance Exam (AIEEE) 2008 (among 700,000 students)
- ◇ **Gold Medal and Certificate of Merit** in *Indian National Physics Olympiad 2008* for being ranked among the top 35 students in the country
- ◇ **Certificate of Merit** in *Indian National Mathematics Olympiad 2008* (ranked among the top 30); attended the International Mathematics Olympiad Training Camp 2008
- ◇ Scholarship for attending **Nurture Program for Advanced Mathematics** at Indian Statistical Institute (ISI) Delhi, conducted by National Board for Higher Mathematics (NBHM)

TEACHING
EXPERIENCE

- | | |
|---|-------------------------|
| Teaching Assistant, 6.841 : Advanced Complexity Theory | Spring 2015
MIT |
| Instructor: Prof. Dana Moshkovitz | |
| Teaching Assistant, CS 208 : Automata Theory and Logic | Fall 2012
IIT Bombay |
| Instructor: Prof. Supratik Chakraborty | |