

Prasad Raghavendra

CONTACT INFORMATION	Computer Science and Engineering University of Washington Seattle, WA 98105	+1 206 288 3807 prasad@cs.washington.edu http://www.cs.washington.edu/homes/prasad
RESEARCH INTERESTS	I am broadly interested in theoretical computer science. Specifically, my research interests include approximation algorithms, hardness of approximation, coding theory and complexity.	
EDUCATION	University of Washington , Seattle, Washington. Department of Computer Science	<i>September 2005-present</i>
	Ph.D (Expected Aug 2009) <ul style="list-style-type: none">• Advisor : Venkatesan Guruswami.• Thesis : <i>Limits to Approximability : Understanding the power of Semidefinite Programming.</i> Master of Science, March 2007.	
	Indian Institute of Technology , Madras, India Department of Computer Science	<i>June 2001- June 2005</i>
	Bachelor & Master of Technology.	
PROFESSIONAL EXPERIENCE	<i>Research Intern</i> Theory Group, IBM Almaden Research Lab San Jose, CA.	<i>June-August 2008</i>
	<i>Research Intern</i> Theory Group, Microsoft Research Redmond, WA.	<i>June-August 2007</i>
	<i>Research Intern</i> Cryptography and AntiPiracy Group, Microsoft Research Redmond, WA.	<i>June-August 2006</i>
	<i>Research Intern</i> Microsoft Research Bangalore, India.	<i>July-August 2005</i>
HONOURS AND AWARDS	<ul style="list-style-type: none">- Best Paper Award and the Best Student Paper Award at ACM Symposium on Theory of Computing 2008.- Bronze Medal at the International Mathematical Olympiad 2000, South Korea.- 1st rank in state-wide Karnataka Common Entrance Test(CET 2000) engineering stream.¹- 1st rank in National level Maths talent exam conducted by Association of Mathematics Teachers India(AMTI).- 12th rank in GATE-2003 examination in the Computer Science Stream.- <i>National Talent Search Examination (NTSE) Scholarship</i> awarded by the <i>National Council for Educational Research and Training (NCERT)</i>.- Scholarship from National Board for Higher Mathematics in years 2000-03.- 1st rank in Karnataka Regional Mathematics Olympiad 1998, and 4th rank in Indian National Mathematics Olympiad 1999.	

¹More than 80,000 students wrote the examination.

PUBLICATIONS

1. *Towards Computing the Grothendieck Constant* (with David Steurer)
ACM-SIAM Symposium on Discrete Algorithms (**SODA**) 2009.
2. *Beating the Random Ordering is Hard: Inapproximability of Maximum Acyclic Subgraph* (with Venkatesan Guruswami and Rajsekar Manokaran)
IEEE Foundations of Computer Science (**FOCS**) 2008.
3. *Constraint Satisfaction over Non Boolean Domain : Approximation Algorithms and Unique Games Hardness* (with Venkatesan Guruswami)
APPROX 2008.
4. *SDP Gaps and UGC Hardness for Multiway Cut, 0-Extension and Metric Labelling* (with Rajsekar Manokaran, Seffi Naor and Roy Schwartz).
ACM Symposium on Theory of Computing (**STOC**) 2008.
5. *Optimal Algorithms and Inapproximability Results for every CSP?*
ACM Symposium on Theory of Computing (**STOC**) 2008.
6. *On Proactive Perfectly Secure Message Transmission* (with Kannan Srinathan, C. Pandu Rangan)
Australasian Conference on Information Security and Privacy (**ACISP**) 2007.
7. *A Note on Yekhanin's Locally Decodable Codes*
Electronic Colloquium on Computational Complexity ,ECCC TR07-016.
8. *On the Optimal Communication Complexity of Multiphase Protocols for Perfect Communication.*
(with Kannan Srinathan, C. Pandu Rangan)
IEEE Symposium on Security and Privacy (**IEEE-SP**) 2007.
9. *Increasing the Span of Stars* (with Ning Chen, Roe Engelberg, C. Thach Nguyen, Atri Rudra, Gyanit Singh)
APPROX 2007.
10. *Coarse Differentiation and Planar Multiflows* (with James Lee)
APPROX 2007.
11. *A 3-Query PCP over integers* (with Venkatesan Guruswami)
ACM Symposium on Theory of Computing (**STOC**) 2007.
12. *Hardness of Learning Halfspaces with Noise* (with Venkatesan Guruswami)
IEEE Foundations of Computer Science 2006 (**FOCS**), invited to SICOMP Special Issue.

MANUSCRIPTS

1. *List Decoding Tensor Products and Interleaved Codes* (with Parikshit Gopalan, Venkatesan Guruswami)
Submitted.
2. *How to Round Any CSP* (with David Steurer)
Submitted.
3. *Communication Complexity of And-Or Trees* (with Swastik Kopparty, Jayram.T.S)
Manuscript.

INVITED TALKS

Bay Area Theory Symposium, University of California, Berkeley.	Nov 2008
Princeton Geometry Workshop, Princeton University.	Oct 2008
China Theory Week, Tsinghua University.	Sept 2008
Microsoft Research, Silicon Valley.	July 2008
IBM Almaden Research Lab, San Jose.	July 2008
Theory Seminar, Columbia University.	May 2008
Workshop on Discrete Harmonic Analysis and its Applications, Cornell University.	Mar 2008
Theory Seminar, State University of Newyork, Buffalo.	Mar 2008
Optimization Seminar, IBM T.J. Watson Research Center.	Mar 2008
Theory Seminar, Newyork University-Courant Institute of Mathematical Sciences.	Feb 2008
Theory Lunch, Princeton University.	Feb 2008
Microsoft Research, Bangalore.	Dec 2007
Microsoft Research, Redmond.	Feb 2007
Microsoft Research, Bangalore.	Sept 2006

PROFESSIONAL
SERVICE

Reviewer for SIAM Journal of Computing (SICOMP), Theory of Computation (ToC), Computational Complexity, FOCS 2006, STOC 2007, APPROX-RANDOM 2007, SODA 2008, STOC 2008, CCC 2008, FOCS 2008, FSTTCS 2008, SODA 2009.

REFERENCES

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