

Ravishankar Krishnaswamy

CONTACT INFORMATION 3713 Wean Hall *Phone* (412) 973-2186
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EDUCATION **Carnegie Mellon University**

PhD Candidate, Computer Science Department, *Aug 2007 -*
• Advisor: **Prof. Anupam Gupta**

Indian Institute of Technology Madras

B.Tech, Computer Science and Engineering, *Aug 2003 - May 2007*
• GPA: **9.59/10**
• Thesis Advisor: **Prof. C. Pandu Rangan**

INTERESTS Approximation Algorithms, Combinatorial Optimization, Algorithmic Game Theory.

ACADEMIC AND RESEARCH EXPERIENCE **Computer Science Department, Carnegie Mellon University**

Graduate Research *Oct, 2007 -*

Currently working with Prof. Anupam Gupta on problems in variants of processor scheduling and partial vertex cover.

Department of Computer Science and Engineering, IIT Madras

B.Tech Thesis *Dec, 2006 - Apr, 2007*

Worked with Prof. C. Pandu Rangan on designing centralized network coding schemes which attain optimal throughput under one of polynomially many failure patterns. Thesis is available at <http://www.cs.cmu.edu/~ravishan/btech.pdf>

College of Comp. and Info. Sciences, Northeastern University

Summer Research Internship *May, 2006 - July, 2006*

Worked with Prof. Ravi Sundaram on the problem of bundling goods to maximize revenue, modeled it in a game theoretic framework. Analyzed the existence of Nash equilibria, and certain complexity aspects of the non game theoretic model. Results (working paper) are available at <http://www.cs.cmu.edu/~ravishan/bundling.pdf>

RELEVANT COURSES, CMU Special Topics in Combinatorial Optimization, Networks and Matchings, Advanced Approximation Algorithms*, Machine Learning Theory*.

- RELEVANT COURSES, IITM Mathematics, Linear Algebra, Topology, Advanced Operations Research.
- SHOLASTIC ACHIEVEMENTS AND HONORS
- **Ranked 2nd** among all students in the Computer Science Department, IIT Madras.
 - Secured **11th** place in the *2006 ACM-ICPC Asia Regional Programming Contest Finals*.
 - Was among the **top 50** students in India selected to participate in the *International Chemistry Olympiad* training camp in 2003.
- MISCELLANEA
- Designed and implemented a web-based *Automated Online Programming Contest Judge* which was used for conducting the first ever *Shaastra Online Programming Contest*. The server is running at <http://shaastra.iitm.ac.in/~opc06>
- REFERENCES
- Prof. Anupam Gupta, Computer Science Department, Carnegie Mellon University
 - Prof. Ravi Sundaram, College of Comp. and Info. Sciences, Northeastern University