

# Pradnya Karbhari

## Address

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<http://www.cc.gatech.edu/~pradnya>

## Research Interests

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My primary research interests are in Networking and Distributed Systems. During my doctoral studies, I have conducted research on various projects in the following areas

- Content Distribution Networks
- Overlay Networks
- Peer-to-Peer Networks

## Education

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- Ph.D. in Computer Science (GPA: 3.96/4.0) Fall 2005 (expected)  
Georgia Institute of Technology, Atlanta, GA
- Graduate Student in Computer Science (GPA: 3.83/4.0) Aug 1998 — July 1999  
Texas A&M University, College Station, TX
- B.S. in Computer Science (GPA: 3.8/4.0) July 1998  
V.J. Technological Institute, University of Bombay, India

## Experience

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- Graduate Research Assistant, College of Computing, Georgia Tech Jan 2000 — present  
Fair and Efficient Content Distribution in Overlay Networks
- Summer Manager, AT&T Labs- Research, Florham Park May 2001 — Aug 2001  
Content Delivery Networks for Applications
- Summer Manager, AT&T Labs- Research, Florham Park May 2000 — Aug 2000  
Web Caching and Replication
- Graduate Teaching Assistant, College of Computing, Georgia Tech Aug 1999 — Dec 1999  
CS 3251: Undergraduate Computer Networks
- Graduate Assistant, Texas A&M University Sept 1998 — July 1999  
Cognition and Instructional Technologies Laboratory

## Publications

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- **Optimizing End-to-End Throughput for Data Transfers on an Overlay-TCP Path**, Pradnya Karbhari, Mostafa Ammar and Ellen Zegura, in Proceedings of Networking 2005, published by Springer-Verlag in the Lecture Notes in Computer Science (LNCS) series, Waterloo, Canada, May 2005
- **Bootstrapping in Gnutella: A Measurement Study**, Pradnya Karbhari, Mostafa Ammar, Amogh Dhamdhare, Himanshu Raj, George Riley and Ellen Zegura, in Proceedings of the Passive and Active Measurement Workshop 2004, published by Springer-Verlag in the Lecture Notes in Computer Science (LNCS) series, Antibes Juan-les-Pins, France, April 2004

- **Multipoint-to-Point Session Fairness in the Internet**, Pradnya Karbhari, Ellen Zegura and Mostafa Ammar, in Proceedings of IEEE Infocom 2003, San Francisco, April 2003
- **ACDN: A Content Delivery Network for Applications**, Pradnya Karbhari, Michael Rabinovich, Zhen Xiao, and Fred Douglis, in Proceedings of ACM SIGMOD (Project demo), June 2002

### Relevant Courses

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- **Networking:**  
Networks and Distributed Systems, Internetworking Architectures and Protocols, Networked Applications and Services, Performance Evaluation of Communication Networks, Network Measurements
- **Systems:**  
Advanced Operating Systems, Distributed Processing Systems, Information Storage and Retrieval
- **Theory:**  
Design and Analysis of Algorithms, Probabilistic Models, Deterministic Optimization, Statistical Models and Design of Experiments

### Computer Skills

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- **Languages:** C, C++, Perl, Tcl
- **Operating Systems:** Solaris, Linux, Windows
- **Simulators:** ns-2 network simulator
- **Techniques:** Procedural, Multi-threaded Programming, TCP/IP Sockets Programming, Object Oriented Design

### Scholastic Awards and Achievements

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- Recipient of Nortel Fellowship Award, 2003
- Recipient of the Georgia Tech Women's Forum Scholarship, 2000
- Recipient of Student Travel Grants for: Sigcomm 2002, Infocom 2003, PAM 2004, Grace Hopper 2002
- Ranked 24th (top 1%) in the University of Bombay for B.S. (Computer Science), 1998
- 17th in Regional Mathematics Olympiad (top 1%) at Maharashtra State level; selected for Indian National Mathematics Olympiad, 1993
- Awarded National Merit Scholarship, 1992

### Professional Activities

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- Reviewer for IWQoS 2003, Infocom 2004, Networking 2004, NetGames 2004, ACM Multimedia 2004, ICC 2005, ISCC 2005, ACM CCR
- Organizational Volunteer for ICNP 2003
- Student member of ACM
- Student member of IEEE

### References

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- Available on request