

Atish Das Sarma

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Education Georgia Institute of Technology

4th Year Ph.D. student, Computer Science (Algorithms, Combinatorics & Optimization).

Advisor: Prof. Richard J. Lipton

Indian Institute of Technology (IIT) - Bombay

B-Tech + M-Tech.(Dual Degree), Computer Science and Engineering, 2005. GPA: 9.01/10

Experiences

- 2007-2008 **Visitor, Microsoft Research Bangalore** - December 2007, July 2008, with Dr. Ravi Kannan.
- 2007 **Summer Intern, Microsoft Research** - Search Labs, Internet Services Research Center, Silicon Valley Center.
- 2006 **Summer Intern, Microsoft Search Labs** - Silicon Valley Center - Mentored by Dr. Rakesh Agrawal.
- 2005 – **Georgia Institute of Technology** - Teaching Assistant (fall 2005, 2006, 2008), Research Assistant (spring 2006, 2007, fall 2007), ACO Research Assistant (summer 2008, spring 2008).
- Summer 2003 **Research Internship, University of Toronto.**

Publications

- Atish Das Sarma, Sreenivas Gollapudi, Rina Panigrahy: **Sparse Cut Projections in Graph Streams**; *Manuscript 2008*.
- Atish Das Sarma, Danupon Nanongkai: **On the power of Slow Input Broadcast Streaming Model**; *Manuscript 2008*.
- Atish Das Sarma, Richard J. Lipton, Danupon Nanongkai: **5.45-Approximation Semi-Streaming Algorithm for Weighted Maximum Matching**; *Manuscript 2008*.
- Atish Das Sarma, Sreenivas Gollapudi, Rina Panigrahy: **“Estimating PageRank on Graph Streams”**; 27th ACM SIGMOD-SIGACT-SIGART Symposium on **Principles of Database Systems (PODS 2008)**, (**Best Paper Award**), (*Invited to the Journal of the Association for Computing Machinery (JACM)*).
- Atish Das Sarma, Sreenivas Gollapudi, Samuel Jeong: **“Bypass Rates: Reducing Query Abandonment using Negative Inferences”**; Proceedings of the 14th ACM SIGKDD International Conference on **Knowledge Discovery and Data Mining (KDD 2008)**.
- Atish Das Sarma, Amit Deshpande, Ravi Kannan: **“Finding Dense Subgraphs in $G(n, 1/2)$ ”**, *A note*.
- Rakesh Agrawal, Atish Das Sarma, Ariel Fuxman, Sreenivas Gollapudi, Panayiotis Tsaparas: **“Seeding Click-based Classifiers”**; *In Preparation*.
- Anirudh Ramachandran, Atish Das Sarma, Nick Feamster: **“BitStore: An Incentive-Compatible Solution for Blocked Downloads in BitTorrent”**; Joint Workshop on **The Economics of Networked Systems and Incentive-Based Computing (NetEcon+IBC)** in conjunction with ACM Conference on **Electronic Commerce (EC)**, 2007.
- Atish Das Sarma, Deeparnab Chakrabarty, Sreenivas Gollapudi: **“Public Advertisement Broker Markets”**; The 3rd International **Workshop on Internet And Network Economics (WINE)**, 2007.

- Atish Das Sarma, Richard J. Lipton: “**Parallel Repetition with Padding and Shuffling**”; *Manuscript 2007*.
- Atish Das Sarma, Amita Gajewar, Richard J. Lipton, Danupon Nanongkai: “**A New Approach to the Four Color Theorem**”; *Manuscript, 2007*.
- Mostafa Ammar, Deeparnab Chakrabarty, Atish Das Sarma, Subrahmanyam Kalyanasundaram, Shiva Kintali, Richard J. Lipton: “**Algorithms for Message Ferrying on Sparse and Disconnected Mobile ad hoc Networks**”; *Manuscript, 2007*.
- Atish Das Sarma, Sundar Vishwanathan: “**Robust Incremental k-Median Clustering**”; *Under Review at JCSS, 2006*.
- Spyros Angelopoulos, Atish Das Sarma, Avner Magen, Anastasios Viglas: “**On-Line Algorithms for Market Equilibria**”; 11th International Computing and Combinatorics Conference (**COCOON**), **2005**.
- Kedar Bellare, Anish Das Sarma, Atish Das Sarma, Navneet Loiwai, Vaibhav Mehta, Ganesh Ramakrishnan and Pushpak Bhattacharyya: “**Generic Text Summarization Using Wordnet**”; 4th International Conference on Language Resources and Evaluation (**LREC**), **2004**.

Talks (not including conference talks):

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| Sep 2008 | “Estimating PageRank on Graph Streams”, Purdue University , Atlanta, USA. |
| Sep 2008 | “Estimating PageRank on Graph Streams”, Georgia Institute of Technology , Atlanta, USA. |
| July 2008 | “Estimating PageRank on Graph Streams”, Microsoft Research - Bangalore ; Bangalore, India. |
| August 2007 | “Seeding Click-based Classifiers”, Microsoft Research - Tech. Talk ; Silicon Valley, USA. |
| August 2007 | “Seed set generation techniques for Query Classifier”, Microsoft Corporation ; Silicon Valley, USA. |
| August 2006 | “Computing Personalized PageRank using Trust Networks”, Microsoft Search Labs ; Silicon Valley, USA. |
| August 2005 | “Robust Incremental k -Median Clustering”, Institute of Mathematical Sciences ; Chennai, India. |
| July 2005 | “Robust Incremental k -Median Clustering”, Indian Institute of Science (I.I.Sc.) ; Bangalore, India. |
| July 2003 | “Clustering and Data Streaming Algorithms”, University of Toronto ; Toronto, Canada. |

Selected Academic Honors

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| 2008 | Best Paper Award at the 27th ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems (PODS 2008). |
| 2004-2005 | Vijay Vashi and Vincent Fernandes Scholarship (2004-2005) for Academic Excellence at IIT-Bombay. |
| 1999-2000 | Represented state in Indian National Mathematics Olympiad -1999. Qualified for Indian National Physics Olympiad -2000 through nationwide screening. |
| 1998 | Merit Certificate in School Leaving Examination, AISSE (awarded to top 1% nationally). Certificate of Merit in Mathematics (awarded to top 0.1% nationally). |

Extra-Curricular Achievements

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| Chess | International Rating FIDE: 2099 . Georgia Tech Team - Board 1 player; 2nd in Georgia Inter-Collegiate-2006 . Karnataka State Champion (U-25) , 2002. Best Unrated Player in National Open at Nagpur, 2005. IIT-Bombay Institute Champion and Captain of hostel team - won Gold every year . Participated and won at several other state and national level tournaments in India during 2001-2005. |
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