

Anamitra Roy Choudhury

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IBM Research -India,
New Delhi

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Education

- Pursuing PhD in Computer Science and Engineering at IIT Delhi (2009-)
Current SGPA : 9.75/10
Expected year of graduation: 2015
- Completed Master of Technology in Computer Science and Engineering from IIT Kanpur (2005-07)
CPI: 10/10
- Completed Bachelor of Engineering in Computer Science and Engineering from Jadavpur University (2001-05)
Marks Obtained: 87.45% (3rd and 4th year)

Work Experience

- Working as a Technical Staff Member in IBM Research India (2007-)

Projects and Publications

- Ph.D Thesis: Designing efficient approximation algorithms for network design and scheduling problems (under supervision of Prof. Naveen Garg and Prof. Amit Kumar).

"Rejecting jobs to minimize load and maximum flow-time"-
Anamitra R. Choudhury, Syamantak Das, Naveen Garg, Amit Kumar -
SODA 2015
- Approximate Algorithms for Scheduling Problems

"Improved Algorithms for Resource Allocation under Varying Capacity"- Venkatesan T. Chakaravarthy, Anamitra R. Choudhury, Shalomoli Gupta, Sambuddha Roy, Yogish Sabharwal- *To Appear* in
ESA 2014

"Scheduling jobs with Multiple Non-uniform tasks" - Venkatesan T. Chakaravarthy, Anamitra R. Choudhury, Sambuddha Roy, Yogish Sabharwal - EuroPar 2013

“A near linear time constant factor algorithm for Unsplittable Flow Problem on Line for bag constraints”- Venkatesan T. Chakaravarthy, Anamitra R. Choudhury, Yogish Sabharwal- FSTTCS 2010

- Distributed Algorithms

“Distributed Algorithms for Scheduling on Line and Tree Networks with non-uniform bandwidths”- Venkatesan T. Chakaravarthy, Anamitra R. Choudhury, Sambuddha Roy, Yogish Sabharwal -IPDPS 2013

“Efficient Decentralized Algorithms for the Distributed Trigger Counting Problem” - Venkatesan T. Chakaravarthy, Anamitra R. Choudhury, Vijay K. Garg, Yogish Sabharwal - Theory of Computer System, 2012

“Improved Algorithms for the Distributed Trigger Counting Problem” - Venkatesan T. Chakaravarthy, Anamitra R. Choudhury,, Yogish Sabharwal - IPDPS 2011

“An efficient decentralized algorithm for the distributed trigger counting problem”- Venkatesan T. Chakaravarthy, Anamitra R. Choudhury, Vijay K. Garg, Yogish Sabharwal- ICDCN 2011

- Parallelization of scientific applications on high performance systems

“Looking under the hood of the IBM Blue Gene/Q Network”- IBM T.J. Watson Team, Anamitra R. Choudhury, Yogish Sabharwal , Swati Singhal - Super Computing 2012

“Breaking the speed and scalability barriers for graph exploration on distributed memory” - Fabio Checconi, Fabrizio Petrini, Jeremiah Willcock, Andrew Lumsdaine, Anamitra R. Choudhury,, Yogish Sabharwal - Super Computing 2012

“MultiFrontal Factorization of Sparse SPD Matrices on GPUs” - Thomas George, Vaibhav Saxena, Anshul Gupta, Amik Singh, Anamitra R. Choudhury - IPDPS 2011

“Optimizations in Financial Engineering: The Least-Squares method of Longstaff and Schwartz” – Anamitra R. Choudhury, Alan King, Sunil Narang, Yogish Sabharwal – IPDPS 2008

- Master’s Thesis: “On some aspects of insertion languages” (under supervision of Prof . Somenath Biswas).

- BE projects:

- Design of low-cost disaster management system using Mobile

Communication Network under Prof. Pradip Kumar Das
in B.E 3rd-4th year

- Designing a limited capability GUI Server for Linux, so as to act as replacement of X for low memory systems under Prof. Chandan Majumder in B.E 3rd year
- Conversion and Interrelationship between different vernacular editors for localization of applications under Prof. Pradip Kumar Das in B.E 4th year

Awards and Achievements

- Recipient of Notional Prize for academic performance in IIT Kanpur in the year 2005-06
- Secured a percentile of 99.83 (AIR 44) in the GATE Examination 2005
- Recipient of University Medal 2005 for securing 1st position in Computer Science & Engg. Department in Jadavpur University
- Received M.P.Birla Memorial Award 2003 for securing Fifteenth Position in the State in Higher Secondary Examination, 2001 conducted by West Bengal Board Of Higher Secondary Education.
- Secured a rank of 16 in West Bengal Joint Entrance Examination 2001 (Engg.)
- Selected by Indian Statistical Institute for BSTAT course 2001
- Secured a rank of 19th in the State in Madhyamik Pariksha 1999 conducted by West Bengal Board of Secondary Education

Personal Information

Date of Birth :	21 st October, 1982
Country of Birth and Citizenship:	INDIA
Permanent Address:	90,Ganguli Bagan East Road, Kolkata – 700 084
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Caste:	General