

Anup Bhattacharya

CONTACT INFORMATION	Department of Computer Science & Engineering, Indian Institute of Technology, Delhi Pin – 110016	E-mail: bhattacharya.anup@gmail.com anupb@cse.iitd.ac.in
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RESEARCH INTERESTS:	Theoretical Computer Science	
EDUCATION	PhD in Computer Science and Engineering (July 2012 – Present) Department of Computer Science and Engineering, IIT Delhi Thesis advisor: Prof. Ragesh Jaiswal	
	Master of Science in Computer Science and Engineering (January 2009 – Feb 2012) Department of Computer Science and Engineering, IIT Kharagpur Thesis advisor: Prof. Dipanwita Roychoudhury and Prof. Abhijit Das	
	B.E. in Electronics and Telecommunication Engineering (July 2002 – June 2006) Department of Electronics and Telecommunication Engineering, Jadavpur University, West Bengal	
WORK EXPERIENCE	Research consultant from September, 2008 to April, 2012 in a General Motors, India sponsored project at IIT Kharagpur.	
	Technical consultant from July, 2006 to Aug, 2008 at PricewaterhouseCoopers, Kolkata.	
	Teaching assistant for Undergraduate Analysis and Design of Algorithms, Graduate Advanced Algorithms, and Undergraduate Discrete Mathematics at IIT Delhi.	
REFEREED JOURNAL PUBLICATIONS	Anup Bhattacharya , Davis Issac, Ragesh Jaiswal, Amit Kumar “Sampling in Space Restricted Settings” at <i>Algorithmica</i> , 2017, DOI: 10.1007/s00453-017-0335-z	
	Anup Bhattacharya , Ragesh Jaiswal, Nir Ailon “Tight lower bound instances for k -means++ in two dimensions” at <i>Theoretical Computer Science</i> , 2016, DOI: 10.1016/j.tcs.2016.04.012	
	Anup Bhattacharya , S Karati, A Das, D Roychowdhury, Bhargav Bellur and A Iyer “Use of SIMD features to speed up eta pairing” at <i>E-Business and Telecommunications, Communications in Computer and Information Science</i> , 2014, DOI: 10.1007/978-3-662-44791-8_9	
REFEREED CONFERENCE PUBLICATIONS	Anup Bhattacharya , Ragesh Jaiswal, Amit Kumar “Faster Algorithms for the Constrained k -Means Problem” at <i>Symposium on Theoretical Aspects of Computer Science (STACS) 2016</i> Invited for submission to <i>Theory of Computing Systems (STACS special issue)</i>	
	Anup Bhattacharya , Davis Issac, Ragesh Jaiswal, Amit Kumar “Sampling in Space Restricted Settings” at <i>International Computing and Combinatorics Conference (COCOON) 2015</i>	

Anup Bhattacharya, Ragesh Jaiswal, Nir Ailon
“A Tight Lower Bound Instance for k -means++ in Constant Dimension” at Theory and Applications of Models of Computation (TAMC) 2014

Utsab Bose, **Anup Bhattacharya** and Abhijit Das
“GPU-based Implementation of 128-bit Secure Eta Pairing Over a Binary Field” at International Conference on Cryptology in Africa (Africacrypt 2013)

Anup Bhattacharya, Abhijit Das, D Roychowdhury, Bhargav Bellur and A Iyer
“SIMD-based implementations of eta pairing over finite fields of small characteristics” at International Conference on Security and Cryptography (SECRYPT 2012)

AWARDS/
ACHIEVEMENTS

Awarded TCS PhD Fellowship in 2014

COMMUNITY
SERVICES

Reviewed papers for SODA, NIPS.

TALKS &
PRESENTATIONS

2017:

- Selected for oral presentation, and presented our work on ‘Faster Algorithms for Constrained k -means Problem’ at [IRISS 2017 \(ACM India Event\)](#)

2016:

- Presented paper ‘Faster Algorithms for the Constrained k -Means Problem’ at STACS 2016.

2015:

- Presented our work on ‘Sampling in Space Restricted Settings’ at CS Theory Seminar Technion, Haifa
- Presented paper ‘Sampling in Space Restricted Settings’ at COCOON 2015.

2014:

- Presented paper ‘A Tight Lower Bound Instance for k -means++ in Constant Dimension’ at TAMC 2014.

REFERENCES

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