Ragesh Jaiswal

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INFORMATION	Department of Computer Science,	<u>E-mail</u> : rjaiswal@cs.columbia.edu	
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	1214 Amsterdam Avenue, New York, NY 10027-7003.	<u>Citizenship</u> : India	
Research Interests	Algorithms, Computational Complexity, Theoretical Cryptography.		
Education	 PhD, Computer Science and Engineering, UC San Diego, 2008. <u>Advisor</u>: Russell Impagliazzo. <u>Thesis Title</u>: New Proofs of (New) Direct Product Theorems. M.Phil., Computer Science and Engineering, UC San Diego, 2006, GPA: 4.0/4.0. MS, Computer Science and Engineering, UC San Diego, 2005, GPA: 4.0/4.0. B.Tech., Computer Science and Engineering, IIT Kanpur, 2003, GPA: 9.6/10.0. 		
Experience	Postdoctoral Researcher , Columbia University, New York, October 2008 – Present. <u>Host</u> : Rocco Servedio.		
	Research Assistant		
	 Research Assistant at University of California San Diego, USA (2003 – 2008). Visiting Students Research Program at Tata Institute of Fundamental Research, Bombay, India (May–June, 2002). 		
	Teaching Assistant		
	 Teaching Assistant for undergraduate/graduate Algorithms and undergraduate Theory of Computation at University of California San Diego, USA (2003 – 2008). Co-Instructor for undergraduate level course on Data Structures and Algorithms at Indian Institute of Technology, Kanpur, India (May–June, 2003). 		
Publications	Journal Publications		
	• Russell Impagliazzo, Ragesh Jaiswal, Valentine Kabanets, Avi Wigderson.: Uniform Direct Product Theorems: Simplified, Optimized and Derandomized. To appear in <i>SIAM Journal on Computing</i> .		
	• Russell Impagliazzo, Ragesh Jaiswal, Valentine Kabanets.: Chernoff-type direct product theorems. <i>Journal of Cryptology</i> , 22: 75–92, 2009.		
	• Russell Impagliazzo, Ragesh Jaiswal, Valentine Kabanets.: Approximately list-decoding direct product codes and uniform hardness amplification. <i>SIAM Journal on Computing</i> , Volume 39, Issue 2, pp. 564-605 (2009).		
	 Conference Proceedings Nir Ailon, Ragesh Jaiswal, Claire Monteleoni.: Streaming k-means approximation. To appear in Neural Information Processing Systems Conference (NIPS'09), 2009. 		
	• Ilias Diakonikolas, Parikshit Gopalan, Ragesh Jaiswal, Rocco Servedio, Emanuele Viola.: Bounded independence fools halfspaces. To appear in the Proceedings of the 50th Annual IEEE Symposium on Foundations of Computer Science (FOCS'09), 2009.		

- Yevgeniy Dodis, Russell Impagliazzo, Ragesh Jaiswal, and Valentine Kabanets.: Security Amplification for Interactive Cryptographic Primitives. In *Theory of Cryptography Conference* (*TCC'09*), pages 128–145, 2009. Invited to appear in *Journal of Cryptology*.
- Russell Impagliazzo, Ragesh Jaiswal, Valentine Kabanets, Avi Wigderson.: Uniform Direct Product Theorems: Simplified, Optimized and Derandomized. In Proceedings of the 40th Annual ACM Symposium on Theory of Computing (STOC'08), pages 579–588, 2008.
- Russell Impagliazzo, Ragesh Jaiswal, Valentine Kabanets.: Chernoff-type direct product theorems. In Proceedings of the 27th Annual International Cryptology Conference (CRYPTO'07), pages 500–516, 2007.
- Russell Impagliazzo, Ragesh Jaiswal, Valentine Kabanets.: Approximately list-decoding direct product codes and uniform hardness amplification. In Proceedings of the 47th Annual IEEE Symposium on Foundations of Computer Science (FOCS'06), pages 187–196, 2006. Invited to appear in SIAM Journal on Computing (FOCS special issue).
- Ritesh Kumar, Ragesh Jaiswal, Sanjeev K. Aggarwal.: An Inlining Technique in Jikes RVM to improve Performance. In *Proceedings of Advances in Computer Science and Technology*, St Thomas Virgin Islands, USA, pages 140-144, 2004.
- Ragesh Jaiswal, Pankaj Jalote, Kapil Narula, Vivek Pandey.: Case Study: Software Development of Personal Investment Management System. An Integrated Approach to Software Engineering (Author: Pankaj Jalote), Springer, Third Edition.

TALKS

- Security Amplification for Interactive Cryptographic Primitives.
 - Cryptography Seminar at New York University, New York, February, 2009.
 - 6th Theory of Cryptography Conference (TCC'09), San Francisco, March, 2009.
 - New Proofs of (New) Direct Product Theorems.
 - China Theory Week 2008, Tsinghua University, Beijing, China, September, 2008.
 - CS Theory Seminar at Columbia University, New York, November, 2008.
 - Uniform Direct Product Theorems: Simplified, Optimized, and Derandomized.
 - 40th annual ACM symposium on Theory of Computing (STOC'08), Victoria, British Columbia, Canada, May, 2008.
 - Workshop on Analytical Tools in Computational Complexity, Banff International Research Station, Alberta, Canada, August, 2008.
 - CS Theory Seminar at Microsoft Research India Lab, India, October, 2008.
 - Chernoff-Type Direct Product Theorems.
 - 27th Annual International Cryptology Conference (CRYPTO'07), Santa Barbara, CA, August, 2007.
 - CS Theory Seminar at Princeton University, Princeton, NJ, October 2007.
 - CS Theory Seminar at University of Toronto, Canada, March, 2008.
 - Approximately list-decoding direct product codes and uniform hardness amplification.
 - Workshop on Recent Advances in Computational Complexity, Banff International Research Station, Alberta, Canada, August, 2006.
 - 47th Annual IEEE Symposium on Foundations of Computer Science (FOCS'06), Berkeley, October, 2006.

Professional Service • Reviewer for IEEE Symposium on Foundations of Computer Science (FOCS 2009), Theory of Cryptography Conference (TCC 2010).

Academic Honors	 Fellowship awarded by UC San Diego for academic year 2003-2004. Award for academic excellence, IIT Kanpur, 1999 and 2000. Ranked 80th in IIT-JEE-1999, the joint entrance examination for admission to the Indian Institutes of Technology (IIT). 	
Courses	 Algorithms and Analysis, Advanced Algorithms, Computability and Complexity, Advanced Complexity, Lattice Algorithms, Modern Cryptography. Machine Learning, Computer Vision, Computer Architecture, Operating Systems, Database Theory, Compilers, Computer Networks, Distributed Systems. 	
LANGUAGES	• English, Hindi.	