

Shikha Singh

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EDUCATION

Stony Brook University, New York 2013–2018
PhD Candidate in Computer Science,
Advisors: Prof. Michael Bender and Prof. Jing Chen

Indian Institute of Technology, Kharagpur 2008–2013
Integrated MSc. in Mathematics and Computing,
Advisor: Prof. Pratima Panigrahi

PROFESSIONAL EXPERIENCE

Assistant Professor, Wellesley College, Wellesley 2018–Present

Research Assistant, Stony Brook University, Stony Brook 2014–2018

Chateaubriand Fellow, University of Évry Val d'Essonne, France Oct–Feb 2016

Visiting Researcher, Max-Planck-Institute Saarbrücken, Germany Aug–Oct 2015

Research Intern, Xerox Research Center India, Bangalore June–Aug 2014

Technical Intern, Yahoo! Software Development, Bangalore, India May–July 2012

TEACHING EXPERIENCE

Assistant Professor, Wellesley College 2018–Present
Languages and Automata, Fall 2018

Substitute Lecturer, Stony Brook University, New York Aug–Sep 2014
Graduate Theory of Computation, Fall 2014

Teaching Assistant, Stony Brook University 2013–2014
Graduate Theory of Computation, Fall 2014
Undergraduate Analysis of Algorithms, Fall 2013 & Spring 2014

FELLOWSHIPS AND GRANTS

John Marburger III Fellowship for Science, Engineering, and Mathematics 2017
Graduate school award, in the amount of \$5,000, offered by Stony Brook University

Chateaubriand Fellowship (STEM) 2015–2016
Offered by the Embassy of France in the U.S. to conduct research in France

Renaissance Technology Fellowship , Stony Brook University <i>3-year grant offered to one outstanding incoming CS PhD student each year</i>	2013–2016
Stony Brook Computer Science Fellowship	2013–2014
Innovation in Science Pursuit for Inspired Research Scholarship <i>Offered to top 1% of the students pursuing sciences in India</i>	2008–2013

PUBLICATIONS IN CONFERENCE PROCEEDINGS

Bloom Filters, Adaptivity, and the Dictionary Problem Foundations of Computer Science M. A. Bender, M. Farach-Colton, M. Goswami, R. Johnson, S. McCauley, and S. Singh	FOCS 2018
Efficient Rational Proofs with Strong Utility-Gap Guarantees Symposium on Algorithmic Game Theory J. Chen, S. McCauley, and S. Singh	SAGT 2018
Approximating k-Forest with Resource Augmentation <i>Conference on Combinatorial Optimization and Applications</i> E. Angel, K. T. Nguyen, and S. Singh (Best Paper Runner-Up Award)	COCOA 2017
Anti-Persistence on Persistent Storage <i>Principles of Database Systems</i> M. A. Bender, J. Berry, R. Johnson, T. M. Kroger, S. McCauley, C. A. Phillips, B. Simon, S. Singh, and D Zage	PODS 2016
Rational Proofs with Multiple Provers <i>Innovations in Theoretical Computer Science</i> J. Chen, S. McCauley, and S. Singh	ITCS 2016
Resource Optimization for Program Committee Members <i>Fun with Algorithms</i> M. A. Bender, S. McCauley, B. Simon, S. Singh, and F. Vivien	FUN 2016
The I/O Complexity of Computing Prime Tables <i>Latin American Theoretical Informatics Symposium</i> M. A. Bender, R. Chowdhury, A. Conway, M. Farach-Colton, P. Ganapathi, R. Johnson, S. McCauley, B. Simon, and S. Singh	LATIN 2016
Run Generation Revisited: What Goes Up May or May Not Come Down <i>International Symposium on Algorithms and Computation</i> M. A. Bender, S. McCauley, A. McGregor, S. Singh, and H. Vu	ISAAC 2015

LEADERSHIP AND EXTRA-CURRICULAR

Member , Diversity and Inclusion Sub-committee, Wellesley College	2018–2019
President , Graduate Women in Science and Engineering, SBU	2017–2018
Vice President , Graduate Women in Science and Engineering, SBU	2016–2017
Web Admin , Women in PhD, Computer Science, SBU	2016–2017
Student Rep , Graduate Curriculum Committee, Computer Science, SBU	2016–2018