

# Shikha Singh

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## Education

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*PhD in Computer Science*, Stony Brook University, Stony Brook, NY 2013–2018  
Dissertation: The Mechanism Design Approach to Interactive Proofs  
*Integrated MSc. Math and Computing*, Indian Institute of Technology Kharagpur 2008–2013

## Experience

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*Assistant Professor*, Wellesley College, Wellesley MA, USA 2018–Present  
*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, Bangalore, India June–Aug 2014  
*Technical Intern*, Yahoo! Software Development, Bangalore, India May–July 2012

## Fellowships and Awards

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John Marburger III Fellowship for Science, Engineering, and Mathematics 2017  
Chateaubriand Fellowship (STEM) 2015–2016  
Renaissance Technology Fellowship 2013–2016  
Stony Brook Computer Science Fellowship 2013–2014  
Innovation in Science Pursuit for Inspired Research Scholarship 2008–2013

## Selected Publications

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*Bloom Filters, Adaptivity, and the Dictionary Problem* FOCS 2018  
Foundations of Computer Science  
M. A. Bender, M. Farach-Colton, M. Goswami, R. Johnson, S. McCauley, and S. Singh  
*Efficient Rational Proofs with Strong Utility-Gap Guarantees* SAGT 2018  
Symposium on Algorithmic Game Theory  
J. Chen, S. McCauley, and S. Singh  
*Approximating  $k$ -Forest with Resource Augmentation* COCOA 2017  
Conference on Combinatorial Optimization and Applications  
E. Angel, K. T. Nguyen, and S. Singh (*Best Paper Runner-Up Award*)  
*Anti-Persistence on Persistent Storage* PODS 2016  
Principles of Database Systems  
M. A. Bender, J. Berry, R. Johnson, T. M. Kroger, S. McCauley,  
C. A. Phillips, B. Simon, S. Singh, and D Zage  
*Rational Proofs with Multiple Provers* ITCS 2016  
Innovations in Theoretical Computer Science  
J. Chen, S. McCauley, and S. Singh  
*Run Generation Revisted: What Goes Up May or May Not Come Down* ISAAC 2015  
International Symposium on Algorithms and Computation  
M. A. Bender, S. McCauley, A. McGregor, S. Singh, and H. Vu