Contact Information	School of Operations Research & Information Engineering Cornell University 292 Rhodes Hall Ithaca, NY 14853	<i>Mobile:</i> (716) 867-8621 <i>E-mail:</i> rk454@cornell.edu	
Citizenship	India		
Education	Cornell University, Ithaca, NY USA		
	PhD Candidate, Operations Research (expected graduation date: August, 2015)		
	 Concentration: Applied Probability and Statistics PhD Minors: Applied Mathematics, Computational Science and Engineering Selected PhD Coursework: 		
	Stochastic Processes Statistical Principles Stochastic Dynamic Programming Math Programming Computational Methods in OR Inventory Management Matrix Computations - GPA: 3.92/4.00	Probability Optimal Learning Simulation Nonlinear Programming Revenue Management Microeconomics Structure of Information Network	
	University at Buffalo, The State University of New York, Buffalo, NY USA		
	M.S., Mechanical Engineering, August 2007-August 2009		
	 Thesis Topic: Image-Guided Tracking of Internal Organ Motion for Radiation Therapy Area of Study: Dynamics, Optimal Control and Estimation Coursework includes: Discrete Optimization, Engineering Optimization, Non- linear Control, Optimal Control, Detection and Estimation, Systems Analysis GPA: 3.95/4.00 		
	Indian Institute of Technology Delhi, New Delhi, INDIA		
	B.Tech., Mechanical Engineering, August 1999-June 2003.		
	 Major Project: An algorithm for computing equilibrium composition of combustion products by minimizing Gibbs free energy GRE: VR 760/800, QR 800/800, AW 4.0/6.0 		
Honors and Awards	 Teaching Assistant of the Year at School of Operations Research and Information Engineering, Cornell University. 2013 - 2014 State University of New York at Buffalo Graduate student tuition scholarship. 2007- 2008 		
Research Interests	Stochastic Dynamic Programming, Optimization Under Uncertainty, Revenue Manage- ment, Dynamic Resource Management, Control of Queueing Systems, Energy Aware Control of Telecommunications Networks		

Publications	 Dynamic resource management for parallel queues with shared pool of flexible servers. (working paper) Dynamic service rate control of single server queue with Markov modulated arrivals (with Mark Lewis and Huseyin Topaloglu) Naval Research Logistics; vol. 60, no. 3, pp. 661-677, 2013 Modeling and uncertainty quantification of motion of lung tumors for image guided radiation therapy (with Tarunraj Singh and Puneet Singla); American Control Con- ference (ACC), 2010, Baltimore, MD Design of input shapers using modal cost for multi-mode systems (with Tarunraj Singh); Automatica , vol. 46, no. 3, pp. 598-604, 2010 		
Invited Talks	 INFORMS Annual Meeting, Nov. 2014: Dynamic Resource Management for Parallel Queues with Shared Pool of Flexible Servers. INFORMS Annual Meeting, Nov. 2013: Optimal Allocation Policy for Parallel Queues with a Shared Pool of Servers. American Control Conference (ACC), July 2010: Modeling and uncertainty quantification of motion of lung tumors for image guided radiation therapy. 		
ACADEMIC			
EXPERIENCE	 Instructor Cornell University Introduction to Engineerin mer 2014): taught undergrad techniques of random process models for variety of problems Research Assistant Cornell University: Fall 2010, SUNY Buffalo: Fall 2009, Sum Indian Institute of Technology Teaching Assistant Stochastic Processes Optimization I Systems Engineering Math Programming Continuous control systems 	ng Stochastic Processes: ORIE 3510/5510 (Sum- uate and graduate students the basic concepts and es with emphasis on their use in building practical related to the area of Operations Research. Summer 2011 mer 2009 : Delhi, Summer 2003 Simulation Optimization II Systems Analysis Nonlinear Programming Introduction to Instrumentation	
Industry Work Experience	Bharat Heavy Electricals Limited, New Delhi, India		
	Design EngineerSeptember 2003 to June 2007Responsibilities included: Design of building Management Systems & Controls for Electrical Sub-stations, HVAC package for Electrical Sub-stations, Vendor Management		
Professional Affiliation	Member, Society for Industrial and Applied Mathematics (SIAM)Member, INFORMS		
Computer Skills	Python (Beginner), Proficient in MATLAB, $\ensuremath{\mbox{ET}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\xspace{\mbox{T}}\$		
Other Interests	Volunteer in ASHA for Education (A Non-Profit involved in providing access to educa-		

TERESTS Volunteer in ASHA for Education (A Non-Profit involved in providing access to education to underprivileged children), Competitive ping-pong and badminton player