

CONTACT INFORMATION	DCH-2038, Rice University, Houston, TX - 77005	Email: saumya.sinha@rice.edu Website: saumya-sinha.github.io
INTERESTS	Optimization under uncertainty, applications in operations research, stochastic and dynamic programming.	
EDUCATION	<p>PhD, Applied Mathematics (minor in Advanced Data Science) University of Washington, Seattle, WA, USA August 2018 <i>Dissertation:</i> Robust dynamic optimization: theory and applications <i>Advisor:</i> Archis Ghate</p> <p>MS, Applied Mathematics University of Washington, Seattle, WA, USA March 2015</p> <p>MS, Mathematics TIFR Centre for Applicable Mathematics, Bangalore, India July 2013</p> <p>BS (Honors), Mathematics St. Stephen's College, University of Delhi, India June 2011</p>	
WORK EXPERIENCE	<p>Postdoctoral Research Associate, Rice University, Houston. Working with Prof. Andrew Schaefer on stochastic optimization with focus on healthcare applications. October, 2018 - present</p> <p>Instructor, University of Washington, Seattle. Taught 300-level undergraduate courses in numerical linear algebra and differential equations for the Applied Math department Sp & Su 2017, Sp & Su 2018</p> <p>Graduate mentor, University of Washington, Seattle. Supervised an undergraduate student in a reading course for the Women in Applied Math Mentorship Program Spring 2018 <i>Topic:</i> Choice modeling and its application to airline network management</p> <p>Teaching assistant, University of Washington, Seattle. Courses in data analysis, mathematical modeling and numerical analysis among others Sep 2013 - Dec 2017, multiple terms.</p>	
PUBLICATIONS	<ul style="list-style-type: none"> • Robust response-guided dosing (S. Sinha, J. Kotas, A. Ghate) <i>Operations Research Letters</i>, Vol 44(3), 394-399, 2016. • Policy iteration for robust nonstationary Markov decision processes (S. Sinha, A. Ghate.) <i>Optimization Letters</i>, Vol 10(8), 1613-1628, 2016. • Approximate policy iteration for robust countable-state Markov decision processes (S. Sinha, A. Ghate) <i>In preparation</i>. • A robust multi-period newsvendor model with inventory balance constraints (S. Sinha, M.R. Wagner, A. Ghate.) <i>In preparation</i>. 	
AWARDS AND FELLOWSHIPS	<ul style="list-style-type: none"> • INFORMS Doctoral Student Colloquium (2017) • William and Marilyn Conner Endowed Fellowship (Spring, 2014) • INSPIRE Scholarship, Government of India. (2008) • National Talent Search Scholarship, NCERT, India. (2006) 	