

CONTACT INFORMATION	University of Washington Department of Applied Mathematics Lewis Hall, Box 353925 Seattle, WA - 98105	Email: saumya@uw.edu Website: saumya-sinha.github.io LinkedIn: linkedin.com/in/sinhasaumya
INTERESTS	Optimization under uncertainty, data-driven optimization, applications in operations research, dynamic programming.	
EDUCATION	<p>PhD, Applied Mathematics (Minor in Advanced Data Science) University of Washington, Seattle, WA, USA. Sep, 2013 - Aug, 2018 (expected). Advisor: Archis Ghate</p> <p>MS, Applied Mathematics University of Washington, Seattle, WA, USA. March, 2015. <i>GPA</i>: 3.85/4.0</p> <p>MS, Mathematics Tata Institute of Fundamental Research, Centre for Applicable Mathematics, Bangalore, India. July, 2013. <i>Grade</i>: 83.05%</p> <p>BS (Honors), Mathematics St. Stephen's College, University of Delhi, India. June, 2011. <i>Grade</i>: 81.75%</p>	
PUBLICATIONS	<ul style="list-style-type: none"> – Robust response-guided dosing (S. Sinha, J. Kotas, A. Ghaté) <i>Operations Research Letters</i>, Vol 44(3), 394-399, 2016. – Policy iteration for robust nonstationary Markov decision processes (S. Sinha, A. Ghaté.) <i>Optimization Letters</i>, Vol 10(8), 1613-1628, 2016. – Approximate policy iteration for robust countable-state Markov decision processes (S. Sinha, A. Ghaté) <i>Under revision, available upon request.</i> – Robust multi-period newsvendor with inventory balance constraints (S. Sinha, M.R. Wagner, A. Ghaté.) <i>In preparation.</i> – Robust countable-state MDPs with unbounded costs (S. Sinha, A. Ghaté.) <i>In preparation.</i> 	
WORK EXPERIENCE	<p>Instructor, University of Washington, Seattle. Taught 300-level undergraduate courses in numerical linear algebra and differential equations for the Applied Math department (Spring & Summer 2017, Spring 2018).</p> <p>Graduate mentor, University of Washington, Seattle. Will supervise an undergraduate student in a one-quarter reading course for the Women in Applied Math Mentorship Program (Spring 2018).</p> <p>Teaching assistant, University of Washington, Seattle. Courses in data analysis, mathematical modeling and numerical analysis among others (multiple quarters since Autumn 2013).</p>	
SELECTED COURSEWORK	<ul style="list-style-type: none"> - Optimization in System Sciences - Mathematical Programming - Network Optimization - Integer Programming 	<ul style="list-style-type: none"> - Machine Learning - Computational Methods for Data Analysis - Probability & Statistics - Econometrics
TECHNICAL SKILLS	<p>Proficient with MATLAB, Python and R. Familiar with AMPL, CPLEX, SQL, MS Excel, Mathematica.</p>	