

## Luhao Zhang

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CONTACT	Department of Mathematics, PMA 12.124	✉: <a href="mailto:luhaozhang@math.utexas.edu">luhaozhang@math.utexas.edu</a>
INFORMATION	The University of Texas at Austin 2515 Speedway Stop C1200 Austin, TX 78712-1202, USA	🏠: <a href="http://web.ma.utexas.edu/users/luhaozhang/">web.ma.utexas.edu/users/luhaozhang/</a>
RESEARCH AREA	Quantitative Finance, Stochastic Control, Data-driven Decision Making under Uncertainty	
EDUCATION	<b>The University of Texas at Austin</b> , Austin, TX, USA	
	Ph.D. Student in Mathematics	Aug. 2018 - Present
	Adviser: <a href="#">Thaleia Zariphopoulou</a>	
	<b>Xi'an Jiaotong University (XJTU)</b> , Xi'an, Shaanxi, China	
	Special Class for the Gifted Youth Program	Aug. 2012 - 2014
	B.S. in Mathematics and Applied Mathematics (Honors Science Program)	Aug. 2014 - 2018
	<b>Columbia University in the City of New York</b> , New York City, NY, USA	
	Visiting Undergraduate Student	Jan. - May 2016
	<b>University of California, Berkeley</b> , Berkeley, CA, USA	
	Visiting Undergraduate Student	Jan. - May 2017
PUBLICATIONS AND PREPRINTS	<b>Submitted for Publication</b>	
	<ul style="list-style-type: none"><li>Rui Gao, Jincheng Yang, <b>Luhao Zhang</b>. <i>Robust Policy Optimization for Feature-Based Newsvendor</i> (2021)</li></ul>	
	<b>In Preparation</b>	
	<ul style="list-style-type: none"><li>Thaleia Zariphopoulou, <b>Luhao Zhang</b>. <i>Optimal investment under partial information with CMIM utility</i> (2021)</li><li>Rui Gao, Jincheng Yang, <b>Luhao Zhang</b>. <i>Distributionally Robust End-to-end Learning with Contextual Information</i> (2021)</li><li>Rui Gao, Jincheng Yang, <b>Luhao Zhang</b>. <i>A Simple Duality Proof for Wasserstein Distributionally Robust Optimization</i> (2021)</li></ul>	
AWARD	<b>Frank Gerth III Teaching Excellence Award</b> , UT Austin	2021
PROGRAMMING	Experience in Python, C++, R, Matlab, Mathematica	

INVITED TALKS	<ul style="list-style-type: none"> <li>Robust Optimization Webinar Series, on the topic of <i>Robust Policy Optimization for Feature-Based Newsvendor</i> May 20, 2021</li> <li>The 13th International Conference of the Chinese Scholars Association for Management Science and Engineering (CSAMSE), Shanghai Jiaotong University, on the topic of <i>Robust Policy Optimization for Feature-Based Newsvendor</i> July 31, 2021</li> </ul>
CONFERENCES & WORKSHOPS ATTENDED	<ul style="list-style-type: none"> <li>Decision Making in Health and Medical Care, IMSI May 17-21, 2021</li> <li>SIAM Conference on Financial Mathematics and Engineering (FM21) June 1-4, 2021</li> <li>SIAM Conference on Control and Its Applications (CT21) July 19-21, 2021</li> <li>SIAM Annual Meeting (AN21) July 19-23, 2021</li> <li>SIAM Conference on Optimization (OP21) July 20-23, 2021</li> </ul>
TEACHING EXPERIENCE	<b>Applied Mathematics and Statistics</b>
	<ul style="list-style-type: none"> <li>M358K <i>Applied Statistics</i> Fall, 2021</li> <li>M362K <i>Probability</i> Fall, 2020</li> <li>M348 <i>Scientific Computation in Numerical Analysis</i> Spring and Fall, 2019</li> </ul>
	<b>Pure Mathematics</b>
	<ul style="list-style-type: none"> <li>M408K <i>Differential Calculus</i> Spring, 2021</li> <li>M F325K <i>Discrete Mathematics</i> Summer, 2020</li> <li>M427L <i>Advanced Calculus for Applications II</i> Spring, 2020</li> <li>M408D <i>Sequences, Series, and Multivariable Calculus</i> Fall, 2018</li> </ul>
OUTREACH	<b>Directed Reading Program Mentor</b>
	<ul style="list-style-type: none"> <li>Sonali Singh, on the topic of <i>Stochastic Calculus for Finance</i> Spring, 2020</li> </ul>
RESEARCH TOPICS	<ul style="list-style-type: none"> <li>Robust portfolio selection</li> <li>Markets with frictions</li> <li>Partial information</li> <li>Rational inattention</li> <li>Nonlinear filtering</li> <li>Information costs</li> </ul>