

# Mehrdad Mohammadi

CONTACT	E-mail: mehrdad3@illinois.edu	linkedin.com/in/mehrdadmohammadi/
EDUCATION	<b>University of Illinois Urbana-Champaign, USA</b> Ph.D. Statistics	2020 –Current
	<b>University of Illinois Urbana-Champaign, USA</b> M.S. Mathematics	2020 – 2023
	<b>University of Illinois Urbana-Champaign, USA</b> M.S. Statistics	2020 – 2023
	<b>Pennsylvania State University, USA</b> M.A. Economics	2018 –2020
	<b>University of Bologna, Italy</b> M.S. Economics, LMEC	2015 – 2018
	<b>Petroleum University of Technology, Iran</b> B.S. Finance and Accounting	2011 – 2015
WORK EXPERIENCE	<b>Data Scientist and Machine Learning Intern, Bayer AG</b> <b>Research Fellow Statistician, Bioacoustics Research Laboratory</b>	May 2023 - December 2023 May 2022-May 2023
RESEARCH AREA	<b>Statistical Reinforcement Learning, Statistical Learning, Statistical Decision Making, Applied Machine Learning, Econometrics</b>	
PUBLICATIONS	<p>Villegas-Downs, M., <b>Mohammadi, M.</b>, Han, A., O'Brien Jr, W. D., Simpson, D. G., Peters, T. A., Schlaeger, J.M. , and &amp; McFarlin, B. L. "Trajectory of Postpartum Cervical Remodeling in Women Delivering Full-term and Spontaneous Preterm: Sensitivity to Quantitative Ultrasound Biomarkers", <i>Forthcoming in Ultrasound in Medicine &amp; Biology</i>, (2024)</p> <p>McFarlin, B. L., Villegas-Downs, M., <b>Mohammadi, M.</b>, Han, A., Simpson, D. G., &amp; O'Brien Jr, W. D. (2023). "Enhanced identification of women at risk for preterm birth via quantitative ultrasound: a prospective cohort study." <i>American Journal of Obstetrics &amp; Gynecology MFM</i>, 101250.</p> <p>McFarlin, B. L., Liu, Y., Villegas-Downs, <b>M., Mohammadi, M.</b>, Simpson, D. G., Han, A., &amp; O'Brien Jr, W. D. (2023). "Predicting Spontaneous Pre-term Birth Risk Is Improved When Quantitative Ultrasound Data Are Included With Historical Clinical Data." <i>Ultrasound in Medicine &amp; Biology</i>, 49(5), 1145-1152.</p> <p><i>Funding: National Institutes of Health (NIH)</i>, Grant Number R01HD089935, QUS Technology for Identifying At-Risk Women for Spontaneous Preterm Birth.</p> <p>PI: MCFARLIN, BARBARA L ,O'BRIEN, WILLIAM D.</p>	
WORK IN PROGRESS	<p><b>Off-policy Distributional Reinforcement Learning: A Hilbert Space Embedding Approach</b>, M. Mohammadi, Q. Zheng, and R.Zhu</p> <p><b>A Wasserstein-Equivalent Metric for the Space of Probability Distributions</b>, M. Mohammadi</p>	
REVIEW SERVICES	Journal of Computational and Graphical Statistics	
AWARDS AND HONORS	Illinois International Graduate Achievement Award	2025
	Social Justice Bridge Builder Graduate Award	2025
	University of Illinois Teachers Ranked as Excellent by Students	2024
	The Acoustical Society of America Conference, Poster Presentation Award	2023
	University of Illinois, Department of Statistics Leadership Award	2023
	University of Illinois, Graduate College Doctoral Grant	2021
	University of Illinois, Ph.D. Fellowship	2020-2025
	University of Illinois, Block Grant Ph.D. Fellowship	2020-2021
	Pennsylvania State University Ph.D. Fellowship	2018-2020
	University of Bologna, Best Student University-Wide Award	2017
	University of Bologna Education Scholarship	2015- 2017
SERVICES AND ACTIVITIES	<p>Advisor to the University of Illinois Chancellor on Middle East Affairs</p> <p>Inaugural Director Hiring Committee Member, <i>SALAAM MENA Cultural Center at UIUC</i></p>	

Founding Committee Member, *SALAAM MENA Cultural Center at UIUC*  
Founder and President, *Statistics Doctoral Student Association at UIUC*  
Treasurer and Director, *Iranian Music Heritage at UIUC*  
Treasurer and Director , *Iranian Cultural Association at UIUC*  
Basketball Referee, *Iran Basketball Federation*  
Open Water Diver (CMAS certificate), *Italian Underwater Activities Federation*

LANGUAGES      Persian(Native), Kurdish (Native), English (Fluent), Italian (Elementary)

PROGRAMMING Python, R, SQL, L<sup>A</sup>T<sub>E</sub>X, MS Office

LANGUGES

REFERENCES    Available upon request.