

# Mehrdad Mohammadi

---

CONTACT	E-mail: mehrdad3@illinois.edu	Website: mehrdadmhmdi.github.io
EDUCATION	<b>University of Illinois Urbana-Champaign, USA</b> Ph.D. Statistics	Expected May 2026
	<b>University of Illinois Urbana-Champaign, USA</b> M.S. Mathematics	2023
	<b>University of Illinois Urbana-Champaign, USA</b> M.S. Statistics	2023
	<b>Pennsylvania State University, USA</b> M.A. Economics	2020
	<b>University of Bologna, Italy</b> M.S. Economics, LMEC	2018
	<b>Petroleum University of Technology, Iran</b> B.S. Finance and Accounting	2015
RESEARCH INTEREST	Statistical Reinforcement Learning, Statistical Learning, Statistical Decision Making, Nonparametric Statistics, Reproducing Kernel Hilbert Space, Survival Analysis, Applied Machine Learning	
WORK EXPERIENCE	Data Scientist and Machine Learning Intern, Bayer AG	May 2023 - December 2023
	Research Fellow Statistician, Bioacoustics Research Laboratory	May 2022-May 2023
PUBLICATIONS & IN-REVIEW WORKS	<b>Mohammadi, M.</b> , Zheng, Q., and Zhu R., “Multi-Dimensional Distributional Reinforcement Learning Policy Evaluation: A Reproducing Kernel Hilbert Space Embedding Approach”	
	<b>M. Mohammadi</b> , “A Wasserstein-Equivalent Metric for the Space of Probability Distributions”	
(GOOGLE SCHOLAR)	<b>M. Mohammadi</b> , Simpson, D. G. “Semiparametric Time to Event Analysis with Dating Errors”	
	Villegas-Downs, M., <b>Mohammadi, M.</b> , Han, A., O’Brien Jr, W. D., Simpson, D. G., Peters, T. A. , Schlaeger,J.M. , and & 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)	
	McFarlin, B. L., Villegas-Downs, M., <b>Mohammadi, M.</b> , Han, A., Simpson, D. G., & 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.	
	McFarlin, B. L., Liu, Y., Villegas-Downs, <b>M., Mohammadi, M.</b> , Simpson, D. G., Han, A., & 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.	
	<i>Funding:</i> National Institutes of Health (NIH), Grant Number R01HD089935, QUS Technology for Identifying At-Risk Women for Spontaneous Preterm Birth. PI: McFarlin, B. L ,O’Brien Jr, W. D.	
REVIEW SERVICES	Journal of Computational and Graphical Statistics Journal of Statistical Computation and Simulation	
AWARDS AND HONORS	Larine Y. Cowan Make A Difference Leadership Award	2025
	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, 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    Advisor to the University of Illinois Chancellor on Student Affairs  
Inaugural Director Hiring Committee Member, *SALAAM MENA Cultural Center at UIUC*  
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,  $\text{\LaTeX}$ , MS Office

LANGUGES

REFERENCES      Available upon request.