

## Mina Norouzirad

### 📍 Address

Center for Mathematics and Applications (NOVA Math)  
Nova School of Science and Technology (NOVA FCT)  
Universidade NOVA de Lisboa  
Campus da Caparica  
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🌐 <https://mnrzrad.github.io/>  
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## SUMMARY

I am a dedicated researcher and educator in the field of statistics, currently serving as a Junior Researcher at the Center for Mathematics and Applications (NovaMath) in Caparica, Portugal, since April 2024. Previously, I completed a post-doctoral research position at the same institution from March 2021 to March 2024.

I have taught at several universities in Iran from 2011 to 2019. I also gained international experience as a Visiting Research Student at Carleton University and Brock University in Canada in 2016 and 2017.

I hold a Ph.D. in Statistical Inference from Shahrood University of Technology, focusing my research on improving estimation strategies within penalized regression models. This is supported by a robust academic foundation that includes a Master's degree in Mathematical Statistics and a Bachelor's degree in Pure Mathematics.

Throughout my career, I have been recognized for my contributions to education and research. I am an active member of professional organizations including the International Statistical Institute (ISI) since 2021. My research interests include predictive modeling, penalized regression models, robust regression, shrinkage estimations, high-dimensional data analysis, data science, machine learning, and computational analysis.

I have authored 24 peer-reviewed publications, which include a book and a book chapter. Additionally, I have co-supervised numerous postgraduate students on projects focused on advanced statistical models and data analysis. My mentorship extends to both Master's and Ph.D. candidates across various institutions. Moreover, I actively contribute as a reviewer for several academic journals and participate in various conference committees.

I actively enhance my skills through professional development, obtaining certifications in data science, programming, and various statistical methodologies from renowned platforms like Kaggle, Udemy, and DataQuest.

My goal is to make significant contributions to the evolving field of statistics. I have a Google Scholar h-index of 8 and a Scopus h-index of 7, along with over 195 citations, showcasing the influence of my research.

Google Scholar: Q0R3sgIAAAAJ  
ORCID: 0000-0003-0311-6888  
MathSciNet author profile: 966732  
WoS ResearcherID: A-1886-2019  
Scopus Author ID: 53878401000  
CIÊNCIA ID: D915-C82C-8F26

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## PROFESSIONAL EXPERIENCE

### *Junior Researcher*

🏢 Center for Mathematics and Applications (NOVA Math), Caparica, Portugal

📅 April 2024-present

*Post-doctoral Researcher*

🏠 Center for Mathematics and Applications (NOVA Math), Caparica, Portugal 📅 2021 - March 2024

*Lecturer*

🏠 Neyshabour University, Neyshabour, Iran 📅 2018-2019

*Lecturer*

🏠 Semnan University, Semnan, Iran 📅 2018-2019

*Visiting Research Student*

🏠 Carleton University, Ottawa, Canada 📅 2017

*Visiting Research Student*

🏠 Brock University, St. Catharines, Canada 📅 2016

*Lecturer*

🏠 Shahrood University of Technology, Shahrood, Iran 📅 2013-2018

*Lecturer*

🏠 Islamic Azad University, Mashhad Branch, Mashhad, Iran 📅 2011-2013, 2018

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## EDUCATION

*Ph.D. (Statistical Inference)*

🏠 Shahrood University of Technology 📍 Shahrood, Iran 📅 2013-2018

**Thesis Title:** Improved Estimation Strategies in Some Penalized Regression Models

**Supervisor:** Professor Mohammad Arashi

*M.Sc. (Mathematical Statistics)*

🏠 Islamic Azad University, Mashhad Branch 📍 Mashhad, Iran 📅 2009-2011

**Thesis Title:** On Estimation of Loss Function

**Supervisor:** Professor Mohammad Arashi

*B.Sc. (Pure Mathematics)*

🏠 Shahrood University of Technology 📍 Shahrood, Iran 📅 2005-2008

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## PRIZES AND DISTINCTIONS

- Winner of Dr. Bozorgnia's Award for Reviewing Excellence at Iranian Statistical Society [2021]
- Winner of the Award for Research Excellence at Shahrood University of Technology [2014]
- Winner of the Award for Education Excellence at Shahrood University of Technology [2014]

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## PROFESSIONAL MEMBERSHIPS

Member, Iranian Statistical Society  
Member, International Statistical Institute (ISI)

[2007 – Present]  
[2021 – Present]

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## SKILLS

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### Programming and Statistical Software

- Python
- R
- Julia
- SPSS
- Minitab
- Mathematica
- Stata

### Other Software

- $\text{\LaTeX}$
- Microsoft Office
- Prezi
- Canva
- Photoshop

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## RESEARCH SUMMARY

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### Research Interests

- Predictive Modeling; Penalized Regression Models; Robust Regression Models;
- Shrinkage Estimations; Penalized Estimations;
- High-Dimensional Data Analysis; Neutrosophic Data Analysis
- Data Science; Machine Learning; Data Mining; Text Mining
- Meta-analysis
- Computational Analysis
- Machine Learning

### Research Activity

Total refereed papers:	24
Total books / book chapters:	1 / 1
Total PhDs / Masters graduated:	0 / 6
Total Review of Scientific Publications:	63

## Peer Reviewed Publications






### Books

- [1] M. Arashi and M. Norouzirad, eds. *Advances in Shrinkage and Penalized Estimation Strategies: Honoring the Contributions of A. K. Md. Ehsanes Saleh*. Forthcoming. Springer, June 2025.
- [2] A. K. Md. E. Saleh, M. Arashi, R. A. Saleh, and M. Norouzirad. *Rank-Based Methods for Shrinkage and Selection With Application to Machine Learning*. John Wiley and Sons, 2022. ISBN: 978-1-119-62539-1.

### Book Chapters

- [3] M. Norouzirad, M. Arashi, F. J. Marques, and F. Esmaeili. “Robust estimation through the preliminary test based on the LAD-LASSO”. In: *Innovations in Multivariate Statistical Modeling - Navigating Theoretical and Multidisciplinary Domains*. Ed. by Andritte Bekker, Johan Ferreira, Mohammad Arashi, and Ding-Geng Chen. Springer, 2022. ISBN: 978-3-031-13973-4. DOI: 10.1007/978-3-031-13971-0\_19.

### Journal Papers

- [4] Carlos A. Coelho, Mina Norouzirad, and Filipe J. Marques. “Testing the hypothesis of a nested block covariance matrix structure with applications to medicine and natural sciences”. In: *Mathematical Methods in the Applied Sciences* 48.1 (2025). (SJR: Q2, IF = 0.61, : Q1, IF = 2.1), pp. 1163–1197. DOI: <https://doi.org/10.1002/mma.10377>.
- [5] M. Norouzirad, R. Moura, M. Arashi, and F. J. Marques. “Marginalized LASSO in the low-dimensional difference-based partially linear model for variable selection”. In: *Journal of Applied Statistics* 52.2 (2025). (SJR: Q2, IF = 0.55, : Q2, IF = 1.2), pp. 400–428. DOI: 10.1080/02664763.2024.2372676.
- [6] F. Caeiro and M. Norouzirad. “Comparing Estimation Methods for the PowerPareto Distribution”. In: *Econometrics* 12.3 (2024). (SJR: Q2, IF = 0.6, : Q3, IF = 1.1). ISSN: 2225-1146. DOI: 10.3390/econometrics12030020.
- [7] A. F. Lukman, M. Norouzirad, F. J. Marques, and D. Mazarei. “Combining Kibria-Lukman and Principal Component Estimators for the Distributed Lag Models”. In: *Behaviormetrika* 50 (2023). (SJR: Q2, IF = 0.62), pp. 621–652. DOI: 10.1007/s41237-023-00198-y.
- [8] H. Marateb, M. Norouzirad, K. Tavakolian, F. Aminorroaya, M. Mohebbian, M.Á. Mañanas, S.R. Lafuente, R. Sami, and M. Mansourian. “Predicting COVID-19 Hospital Stays with Kolmogorov–Gabor Polynomials: Charting the Future of Care”. In: *Information* 14.11 (2023). (SJR: Q2, IF = 0.7, : Q2, IF = 2.4), p. 590. DOI: 10.3390/info14110590.
- [9] F. J. Marques, J. Diogo, M. Norouzirad, and R. Bispo. “Testing the independence of variables for specific covariance structures: a simulation study”. In: *Mathematical Methods in the Applied Sciences* 46.9 (2023). (SJR: Q2, IF = 0.61, : Q1, IF = 2.1), pp. 10421–10434. DOI: 10.1002/mma.9130.
- [10] M. Norouzirad, M. Arashi, F. J. Marques, and N. A. Mamod Khan. “Feasible Stein-Type and Preliminary Test Estimations in the System Regression”. In: *Statistics, Optimization and Information Computing* 11.2 (2023). (SJR: Q3, IF = 0.38), pp. 258–275. DOI: 10.19139/soic-2310-5070-1589.
- [11] M. Norouzirad, G. S. Rao, and D. Mazarei. “Neutrosophic Generalized Rayleigh Distribution with Application”. In: *Neutrosophic Sets and Systems* 58.1 (2023). (SJR: Q2, IF = 0.49), pp. 248–262. DOI: 10.5281/zenodo.8404463.
- [12] G. S. Rao, M. Norouzirad, and D. Mazarei. “Neutrosophic Generalized Exponential Distribution with Application”. In: *Neutrosophic Sets and Systems* 55.1 (2023). (SJR: Q2, IF = 0.49), pp. 471–485. DOI: 10.5281/zenodo.7832786.

- [13] M. Norouzirad, M. Arashi, and M. Roozbeh. “Differenced-based double shrinking in partial linear models”. In: *Journal of Computational Statistics and Modeling* 1.1 (2022), pp. 21–32. DOI: 10.22054/jcsm.2018.33896.1008.
- [14] M. Arashi, M. Norouzirad, M. Roozbeh, and N. Mamode Khan. “A high-dimensional counterpart for the ridge estimator in multicollinear situations”. In: *Mathematics* 9 (2021). (SJ: Q2, IF = 0.48, Q1, IF = 1.4), p. 3057. DOI: 10.3390/math9233057.
- [15] Z. Eslami, M. Norouzirad, and M. Arashi. “Penalized estimators in Cox regression model”. In: *Andishe-ye-Amari* 25.1 (2021). In Persian, pp. 53–67.
- [16] M. Arashi and M. Norouzirad. “A note on preliminary test estimator in high dimensional regression model”. In: *Biostatistics and Biometrics* 9.2 (2019), pp. 31–33. DOI: 10.19080/BB0AJ.2019.09.555756.
- [17] M. Norouzirad and M. Arashi. “Preliminary test and Stein-type shrinkage ridge estimators in robust regression”. In: *Statistical Papers* 60 (2019). (SJ: Q2, IF = 0.66, Q2, IF = 1.2), pp. 1849–1882. DOI: 10.1007/s00362-017-0899-3.
- [18] M. Arashi, M. Norouzirad, S. E. Ahmed, and B. Yuzbasi. “Rank-based Liu regression”. In: *Computational Statistics* 33.3 (2018). (SJ: Q2, IF = 0.57, Q3, IF = 1.0), pp. 1525–1561. DOI: 10.1007/s00180-018-0809-8.
- [19] M. Norouzirad and M. Arashi. “Preliminary test and Stein-type shrinkage LASSO- based estimators”. In: *SORT-Statistics and Operation Research Transactions* 42.1 (2018). (Q1: in Statistics & Probability Q4, IF = 0.9), pp. 54–58. DOI: 10.2436/20.8080.02.68.
- [20] M. Norouzirad, S. Hossain, and M. Arashi. “Shrinkage and penalized estimators in weighted least absolute deviations regression models”. In: *Journal of Statistical Computation and Simulation* 88.8 (2018). (SJ: Q2, IF = 0.51, Q3, IF = 1.1), pp. 1557–1575. DOI: 10.1080/00949655.2018.1441415.
- [21] A. K. Md. Saleh and M. Norouzirad. “On shrinkage estimation: non-orthogonal case”. In: *Statistics, Optimization and Information Computing* 6 (2018). (SJ: Q3, IF = 0.38), pp. 427–451. DOI: 10.19139/soic.v6i3.582.
- [22] A. K. Md. E. Saleh, R. Navratil, and M. Norouzirad. “Rank theory approach to ridge, LASSO, preliminary test and Stein-type estimators: a comparative study”. In: *Canadian Journal of Statistics* 46.4 (2018). (SJ: Q2, IF = 0.51, Q3, IF = 0.8), pp. 690–704. DOI: 10.1002/cjs.11480.
- [23] M. Norouzirad, M. Arashi, and S. E. Ahmed. “Improved robust ridge M-estimation”. In: *Journal of Statistical Computation and Simulation* 87.16 (2017). (SJ: Q2, IF = 0.51, Q3, IF = 1.1), pp. 3469–3490. DOI: 10.1080/00949655.2017.1371174.
- [24] A. K. Md. Saleh, M. Arashi, M. Norouzirad, and B. M. G. Kibria. “On shrinkage and selection of treatments ANOVA model”. In: *Journal of Statistical Research* 51.2 (2017). (SJ: Q4, IF = 0.1), pp. 165–191. DOI: 10.47302/jsr.2017510205.
- [25] M. Norouzirad and M. Arashi. “Studying the performance of shrinkage estimators in penalized multiple models with L1 norm”. In: *Journal of Statistical Sciences* 11.1 (2016). In Persian, pp. 149–174. DOI: 10.29252/jss.11.1.149.
- [26] M. Arashi, M. Janfada, and M. Norouzirad. “Singular ridge regression with stochastic constraints”. In: *Communication in Statistics Theory and Methods* 44.6 (2015). (SJ: Q3, IF = 0.45, Q4, IF = 0.6), pp. 1281–1292. DOI: 10.1080/03610926.2012.763097.
- [27] M. Arashi, A. Iranmanesh, M. Norouzirad, and H. Salarzadeh Jenatabadi. “Bayesian analysis in multivariate regression models with conjugate priors”. In: *Statistics* 48.6 (2014). (SJ: Q3, IF = 0.43), pp. 1324–1334. DOI: 10.1080/02331888.2013.809720.
- [28] M. Arashi, B. M. G. Kibria, M. Norouzirad, and S. Nadarajah. “Improved preliminary test and Stein-rule Liu estimators for the ill-conditioned elliptical linear regression model”. In: *Journal of Multivariate Analysis* 126 (2014). (SJ: Q2, IF = 0.84, Q2, IF = 1.4), pp. 53–74. DOI: 10.1016/j.jmva.2014.01.002.
- [29] M. Norouzirad and M. Arashi. “A note on loss estimation”. In: *Applied Mathematics Letters* 25 (2012). (SJ: Q1, IF = 1.1, Q1, IF = 2.9), pp. 779–783. DOI: 10.1016/j.aml.2011.10.005.

## Conference and Workshop Papers

- [30] E. Ibrahimi, M. Norouzirad, M. Meto, and M. b. Lopes. “Regularized Generalized Linear Models to Disclose Host-Microbiome Associations in Colorectal Cancer”. In: *6th International Conference on Mathematics and Statistics*. Leipzig, Germany, 2023.
- [31] M. Norouzirad. “Dimension Reduction and Shrinkage Estimation in Seemingly Unrelated Regression Models”. In: *15th Iranian Statistical Conference*. Yazd University, Yazd, Iran, 2020.
- [32] M. Norouzirad, M. Arashi, and M. Roozbeh. “A Modified Selector for Multicollinear Situation”. In: *Bernoulli-IMS One World Symposium*. 2020.
- [33] M. Maanavi, M. Roozbeh, and M. Norouzirad. “Least trimmed ridge estimator under stochastic linear restriction”. In: *The 12th Seminar on Probability and Stochastic Process*. Semnan, Iran, 2019.
- [34] B. Yuzbasi, S. E. Ahmed, M. Arashi, and M. Norouzirad. “LAD, LASSO, and related strategies in regression models”. In: *Proceedings of the Thirteenth International Conference on Management Science and Engineering Management*. 2019, pp. 429–444. DOI: 10.1007/978-3-030-21248-3\\\_32.
- [35] M. Norouzirad. “Difference-based improved estimation strategies using marginal theory in partial linear model”. In: *14th Iranian Statistical Conference*. Shahrood University of Technology, Shahrood, Iran, 2018.
- [36] M. Norouzirad, M. Arashi, and S. E. Ahmed. “Asymptotic properties of shrinkage LAD estimators”. In: *11th Seminar on Probability and Stochastic Processes*. Qazvin, Iran, 2017.
- [37] M. Arashi and M. Norouzirad. “Steinian shrinkage estimation in high dimensional regression”. In: *13th Iranian Statistical Inference*. Shahid Bahonar University of Kerman, Kerman, Iran, 2016.
- [38] M. Norouzirad and M. Arashi. “From Lad-LASSO to PR-LAD estimator”. In: *1st Seminar on Non-parametric Statistics and its Application*. Allame Tabatabaeyi University, Tehran, Iran, 2016.
- [39] M. Arashi and M. Norouzirad. “Improved ridge M-estimators”. In: *46th Annual Iranian Mathematics Conference*. Yazd University, Yazd, Iran, 2015.
- [40] M. Norouzirad, M. Arashi, and A. K. Md. E. Saleh. “Shrinkage estimation through convex optimization”. In: *8th International Conference of the Iranian Society of Operations Research*. Ferdowsi University, Mashhad, Iran, 2015.
- [41] M. Norouzirad, M. Arashi, and A. K. Md. E. Saleh. “Some asymptotic results on improved LASSO estimators”. In: *10th Seminar on Probability and Stochastic Process*. Yazd University, Yazd, Iran, 2015.
- [42] M. Arashi and M. Norouzirad. “Preliminary test approach in high dimensional multivariate regression models”. In: *12th Iranian Statistical Conference*. Razi University, Kermanshah, Iran, 2014.
- [43] M. Arashi and M. Norouzirad. “Estimating loss function using shrinkage Stein-type estimators”. In: *The 11th Iranian Statistical Conference*. In Persian. Tehran, Iran, 2012.
- [44] M. Arashi and M. Norouzirad. “On the quadratic loss estimation”. In: *The 43rd Annual Iranian Mathematics Conference*. University of Tabriz, Tabriz, Iran, 2012.
- [45] M. Bakhshimazhde, M. Norouzirad, and N. Yaghobi. “Analysis impact of knowledge economy on intellectual capital in small and medium industries and companies in Mashhad”. In: *The 4th International Conference on Intellectual Capital Management*. Institute for Advanced Studies in Basic Sciences, Zanjan, Iran, 2012.
- [46] M. Norouzirad, M. Bakhshimazhde, and N. Yaghobi. “Identification and priority ranking effective factors in the success of knowledge management in small and medium enterprises by using techniques of fuzzy Delphi and fuzzy Topsis”. In: *The 4th International Conference on Intellectual Capital Management*. Institute for Advanced Studies in Basic Sciences, Zanjan, Iran, 2012.
- [47] M. Arashi and M. Norouzirad. “Estimation loss function in multivariate normal distribution”. In: *6th Iranian Statistics Congress*. In Persian. Payame Noor University, Ahvaz Branch, Ahvaz, Iran, 2011.
- [48] M. R. Rabie, A. Kasaeian, and M. Norouzirad. “Effect of Education in Medical Sciences on Study Skills and Habits of Students at Shahrood University of Medical Sciences”. In: *9th National Congress on Medical Education*. In Persian. Shahid Sadoughi University of Medical Science, Yazd, Iran, 2008.

## Abstracts

- [49] V. Augusto, R. Moura, M. Norouzirad, and M. Fonseca. “PSInference: A Package for Synthetic Data”. Poster presented at PhD Day in NOVA School of Science and Technology (NOVA FCT), Caparica, Portugal. Jan. 2025. DOI: 10.13140/RG.2.2.14461.06888.
- [50] M. Norouzirad, F. J. Marques, and D. Mazarei. “A note on the restricted Enet estimators”. Linear Statistical Inference (LinStat), Tomar, Portugal, 2022.

## Non-Peer Reviewed Publications

### Software Packages

- [51] M. Arashi, M. Rahimi, and M. Norouzirad. *CBPE: Correlation-Based Penalized Estimators*. R package version 0.1.0. 2024.
- [52] F. J. Marques, M. Norouzirad, J. Diogo, and R. Bispo. *TestIndVars: Neutrosophic distributions*. R package version 0.1.0. 2024.
- [53] Ricardo Moura, Mina Norouzirad, Vítor Augusto, and Miguel Fonseca. *PSinference: Inference for Released Plug-in Sampling Single Synthetic Dataset*. R package version 0.2.1. 2024.
- [54] A. Roshani, M. Norouzirad, and D. Mazarei. *ntsDatasets: Neutrosophic Data Sets*. R package version 0.1.0. 2024.
- [55] D. Mazarei, M. Norouzirad, A. Roshani, G. S. Rao, and F. Esmaeili. *ntsDists: Neutrosophic Distributions*. R package version 2.1.0. 2023.
- [56] M. Norouzirad, D. Mazarei, and R. Moura. *ImpShrinkage: Improved Shrinkage Estimations for Multiple Linear Regression*. R package version 1.0.0. 2023.

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## POSTGRADUATE/STAFF SUPERVISION

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## Co-Supervisions and Mentoring

- Tomás Bandeira, MSc, Identification of Brain Tumor Molecular Subtypes via Regularized Classification Using Correlation-Based Penalty, Nova Universidade de Lisboa, 2024 – present. Supervisors: Marta Lopes
- Samira Mousavi, Ph.D., Mixed Survival Time-Varying Modeling Using Functional Data Analysis, Department of epidemiology and Biostatistics, faculty of public health, Isfahan University of Medical Sciences, 2023 – present.
- Joana Veira, MSc, Topic Modeling and Forecasting: A Case Study on Effect of News on Crude Oil Price, Nova Universidade de Lisboa, 2022 – 2023. Supervisors: Filipe J. Marques
- Nahid Mohammadi, MSc, A Model-Free Variable Selection Method for Reducing the Number of Redundant Variables, Shahrood University of Technology, 2017 – 2019. Supervisor: Davvood Shahsavni
- Saeed Shirzayee, MSc, On Variable Selections Methods in Regression Models with Time Series Errors, Shahrood University of Technology, 2017 – 2019. Supervisor: Mohammad Arashi
- Faezeh Mirsalari, MSc, On Variable Selections Methods in High Dimensional Regression Models, Shahrood University of Technology, 2017 – 2019. Supervisor: Mohammad Arashi
- Firoozeh Hosseinivand, MSc, Comparison of Bone Density of Young Female Athletes in Chess and Futsal, Shahrood University of Technology, 2017 – 2019. Supervisor: Ali Younesian

## Juri member

- Emilija Svegzdaite, The relation between the equity market volatility index and the performance of the information technology stocks, Master thesis in information Management, Nova Information Management School (NOVA IMS), NOVA University Lisbon, Nov. 2024. (Examiner)
- Fábio Alexandre Alves de Sousa, Understanding the relationship between Impact Investment Firms and Market Volatility, Master thesis in Statistics and Information Management, Nova Information Management School (NOVA IMS), NOVA University Lisbon, Nov. 2024. (Examiner)
- Rui Pedro Mendoça Prata, Environmental Risk Management and Sustainability in the Banking Sector, Master thesis in Statistics and Information Management, Nova Information Management School (NOVA IMS), NOVA University Lisbon, Nov. 2024. (Examiner)
- Joana Veira, MSc, Topic Modeling and Forecasting: A Case Study on Effect of News on Crude Oil Price, Nova Universidade de Lisboa, 2023. (Supervisor)
- Nahid Mohammadi, MSc, A Model-Free Variable Selection Method for Reducing the Number of Redundant Variables, Shahrood University of Technology, 2019. (Supervisor)
- Saeed Shirzayee, MSc, On Variable Selections Methods in Regression Models with Time Series Errors, Shahrood University of Technology, 2019. (Supervisor)
- Faezeh Mirsalari, MSc, On Variable Selections Methods in High Dimensional Regression Models, Shahrood University of Technology, 2019. (Supervisor)
- Firoozeh Hosseinivand, MSc, Comparison of Bone Density of Young Female Athletes in Chess and Futsal, Shahrood University of Technology, 2019. (Supervisor)

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






## INVITED TALKS

- “Incorporating experts’ knowledge via shrinkage methods in Data Science”, Invited Talk to The power, University of Tirana, Tirana, Albania, December 2022
- “Difference-Based Double Shrinking in Partial Linear Models”, Invited Talk to the 2nd Seminar on Nonparametric Statistics and its Application, Allameh Tabatabaie University, Tehran, Iran, May 2018.
- “Restricted LASSO and Double Shrinking”, Invited Talk to Polytechnique Montréal, Montréal, Canada, March 2017.
- “Improving estimators by shrinkage method” Invited Talk to Islamic Azad University; Mashhad Branch; Mashhad; Iran. October 2011.









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## PROFESSIONAL ACTIVITIES

### Journal Reviews

- Mathematics (SJR: Q2, IF = 0.48, : Q1, IF = 1.4) – 13 papers
- Statistical Papers (SJR: Q2, IF = 0.66, : Q2, IF = 1.1) – 3 papers
- Symmetry (SJR: Q2, IF = 0.49, : Q2, IF = 2.2) – 3 papers
- Journal of Statistical Computation and Simulation (SJR: Q2, IF = 0.51, : Q4, IF = 1.1) – 7 papers
- Soft Computing (SJR: Q2, IF = 0.81, : Q2, IF = 3.1) – 2 papers
- Statistics, Optimization & Information Computing (SJR: Q3, IF = 0.38) – 1 paper
- Journal of Computational and Applied Mathematics (SJR: Q2, IF = 0.86, : Q1, IF = 2.1) – 1 paper
- Communications in Statistics - Simulation and Computation (SJR: Q3, IF = 0.44, : Q3, IF = 0.8) – 2 papers
- Scientific African (SJR: Q1, IF = 0.58, : Q2, IF = 2.7) – 1 paper
- Scientific Reports (SJR: Q1, IF = 0.9, : Q1, IF = 3.8) – 3 papers



- Kragujevac Journal of Mathematics (SJR: Q2, IF = 0.42, : Q1, IF = 1.0) – 1 paper
- International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems (SJR: Q3, IF = 0.41, : Q4, IF = 1.0) – 1 paper
- Algorithms (SJR: Q2, IF = 0.51, : Q3, IF = 1.8) – 1 paper
- Revstat Statistical Journal (SJR: Q4, IF = 0.27, : Q4, IF = 0.7) – 1 Paper
- Aging Clinical and Experimental Research (SJR: Q2, IF = 1.01, : Q2, IF = 3.4) – 1 paper
- The American Statistician (SJR: Q1, IF = 0.68, : Q1, IF = 1.8) – 1 paper
- Axioms (SJR: Q3, : Q1, IF = 1.9) – 1 paper
- Sustainability (SJR: Q1, IF = 0.67, : Q3, IF = 3.3) – 1 paper
- Journal of Computational Statistics and Modeling – 2 papers
- Journal of Statistical Sciences (In Persian) – 7 papers
- Andishe\_ye Amari (In Persian) – 5 papers
- Koomesh (Persian) – 1 paper
- Arashi, M., & Norouzirad, M. (Eds.). (2025). *Advances in Shrinkage and Penalized Estimation Strategies: Honoring the Contributions of A. K. Md. Ehsanes Saleh*, Springer – 4 papers.

## Conference and Workshop Program Committees



- Executive Committee Member, The 14th Iranian Statistics Conference, Shahrood University of Technology, September 2018.
- Executive Committee Member, The 2nd Seminar on Spatial Statistics and Its Applications, Shahrood University of Technology, November 2017.
- Executive Committee Member, The 6th National Workshop on Statistics and Fuzzy Probability, Shahrood University of Technology, May 2016.

## Additional works

- Technical Manager, Journal of Statistical Sciences, Iranian Statistical Society, 2017-2022
- The Women's Committee member, Iranian Statistical Society, 2021-2022.
- The Editorial Board member of Newspaper of Iranian Statistical Society, 2019-2022.
- Member of organizing seminars, The Center for Mathematics and Applications (NOVA MATH), 2022-present.

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## Research Projects

- Job Satisfaction of Employees in the Power Distribution Company of Khorasan Razavi Province and its Influencing Factors
  - ◆ Power Distribution Company of Khorasan Razavi Province  2009-2010
- The Impact of Targeting Subsidies on Correcting the Pattern of Natural Gas Consumption
  - ◆ Southern Khorasan Gas Company  2014-2015

## TEACHING EXPERIENCE

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### Postgraduate Diploma/Masters in Management


- Statistical Analysis for Management  
    📍 Islamic Azad University, Mashhad Branch, Mashhad, Iran 📅 2018

### Bachelors in Statistics

- Sampling Methods  
    📍 Semnan University, Semnan, Iran 📅 2019
- Regression  
    📍 Neyshabour University, Neyshabour, Iran 📅 2019
- Statistical Methods  
    📍 Shahrood University of Technology, Shahrood, Iran 📅 2019
- Combinations  
    📍 Neyshabour University, Neyshabour, Iran 📅 2019
- Computational Statistics  
    📍 Neyshabour University, Neyshabour, Iran 📅 2019
- Discrete Multivariate Methods  
    📍 Neyshabour University, Neyshabour, Iran 📅 2019
- Advanced Programming  
    📍 Neyshabour University, Neyshabour, Iran 📅 2019

### Bachelors in Other Disciplines

- Statistics for Civil Engineers  
    📍 Semnan University, Semnan, Iran 📅 2019
- Engineering Statistics  
    📍 Shahrood University of Technology, Shahrood, Iran 📅 2012-2013  
    📍 Shahrood University of Technology, Shahrood, Iran 📅 2017-2019
- Statistics and Probabilities  
    📍 Islamic Azad University, Mashhad Branch, Mashhad, Iran 📅 2012  
    📍 Semnan University, Semnan, Iran 📅 2018-2019
- Management Statistics  
    📍 Shahrood University of Technology, Shahrood, Iran 📅 2014-2015  
    📍 Shahrood University of Technology, Shahrood, Iran 📅 2017-2019
- Mathematics and Statistics for Architecture  
    📍 Shahrood University of Technology, Shahrood, Iran 📅 2015

















- Applied Statistics
  - ♥ Shahrood University of Technology, Shahrood, Iran  2017
  - ♥ Semnan University, Semnan, Iran  2018
- Introduction to Biostatistics
  - ♥ Islamic Azad University, Mashhad Branch, Mashhad, Iran  2018
- Introduction to Statistics and Probability
  - ♥ Islamic Azad University, Mashhad Branch, Mashhad, Iran  2018
- Introduction to Mathematics and Statistics
  - ♥ Islamic Azad University, Mashhad Branch, Mashhad, Iran  2018
- Statistics for Business
  - ♥ Shahrood University of Technology, Shahrood, Iran  2018-2019

## Workshop

- Introduction to  $\text{\LaTeX}$ 
  - ♥ Islamic Azad University, Mashhad Branch, Mashhad, Iran  2011-2015

## Course Certificate

- Data Cleaning, Issued by Kaggle 
- Applied Data Science Lab, Issued by World Quant University 
- Writing Academic English for Beginner, Issued by Udemy 
- Python Basics - Bootcamp, Issued by Udemy 
- CNN for Computer Vision weith Keras and TensorFlow in R, Issued by Udemy, 
- Data Visualization in Python for Machine Learning Engineers, Issued by Udemy, 
- Introduction to Python Programming, Issued by Udemy, 
- Data Analyst in R, Issued by DataQuest, 
- APIs and Web Scraping with R, Issued by DataQuest, 
- Probability and Statistics with R, Issued by DataQuest, 
- R Basics for Data Analysis, Issued by DataQuest, 
- Data Visualization with R, Issued by DataQuest, 
- Probability and Statistics, Issued by DataQuest, 
- Predictive Modeling and Machine Learning in R, Issued by DataQuest, 
- Working with Data Sources, Issued by DataQuest, 
- Data Cleaning in R, Issued by DataQuest, 
- Introduction to R, Issued by DataQuest, 
- Shiny Applications in R, Issued by DataQuest, 
- R Basics for Data Analysis, Issued by DataQuest, 
- Data Visualization with R, Issued by DataQuest, 
- Querying Databases with SQL and R, Issued by DataQuest, 
- Linear Regression Modeling in R, Issued by DataQuest, 
- Introduction to SQL and Databases, Issued by DataQuest, 
- For Loops and Conditional Statements in Python, Issued by DataQuest, 
- Introduction to Python Programming for Data Science, Issued by DataQuest, 
- Introduction to APIs in R, Issued by DataQuest, 
- Introduction to Machine Learning in R, Issued by DataQuest, 
- Introduction to Web Scraping in R, Issued by DataQuest, 
- Introduction to Interactive Web Applications in Shiny, Issued by DataQuest, 
- Hypothesis Testing in R, Issued by DataQuest, 
- Conditional Probability in R, Issued by DataQuest, 
- Introduction to Probability in R, Issued by DataQuest, 
- Intermediate Statistics in R, Issued by DataQuest, 
- Introduction to Statistics in R, Issued by DataQuest, 
- SQL Fundamentals, Issued by DataQuest, 
- Advanced Data Cleaning in R, Issued by DataQuest, 

- Introduction to Data Cleaning in R, Issued by DataQuest, 
- Specialized Data Processing in R: Strings and Dates, Issued by DataQuest, 
- Control Flow, Iteration, and Functions in R, Issued by DataQuest, 
- Data Structures in R, Issued by DataQuest, 
- Introduction to Data Analysis in R, Issued by DataQuest, 
- Intermediate SQL in R, Issued by DataQuest, 
- Introduction to Data Visualization in R, Issued by DataQuest, 
- Introduction to Python, Issued by Datacamp 
- Intermediate Python, Issued by Datacamp 
- Understanding Data Visualization, Issued by Datacamp 
- Supervised Learning with scikit-learn, Issued by Datacamp 
- Python Data Science Toolbox, Issued by Datacamp 
- Getting Started with Julia, Issued by Julia Academy 
- Introduction for Julia (for programming), Issued by Julia Academy 
- Machine Learning in Python, Issued by 365 DataScience 
- Introduction to Jupyter, Issued by 365 DataScience 

## Conferences

- The IX Workshop on Computational Data Analysis and Numerical methods, Évora, Portugal, 2024 
- The 26<sup>th</sup> International Conference on Computational Statistics (COMPSTAT 2024), Giessen, Germany, 2024 
- The XXVI Congress of the Portuguese Statistical Society (SPE 2023), Guimarães, Portugal, 2023 
- The International Conference on Trends and Perspectives in Linear Statistical Inference, Polytechnic Institute of Tomar, Tomar, Portugal, 2022 
- Bernoulli-IMS One World Conference, University of Mannheim, 2020 
- The 15<sup>th</sup> Iranian Statistical Conference, University of Yazd, Yazd, Iran, 2020 
- The 1<sup>st</sup> National Conference on Mathematical Biology, Neyshabur University, Neyshabour, Iran, 2018 
- The 14<sup>th</sup> Iranian Statistical Conference, Shahrood University of Technology, Shahrood, Iran, 2018 
- The 2<sup>nd</sup> Nonparametric Seminar and Its Applications, Allameh Tabataba'i University, Tehran, Iran, 2018 
- The 2<sup>nd</sup> Seminar on Spatial Statistics and Its Applications, Shahrood University of Technology, Shahrood, Iran, 2017
- The Conference on Modern Methods in Insurance Pricing and Industrial Statistics, Bu-Ali Sina University, Hamedan, Iran, 2017 
- The 11<sup>th</sup> Seminar on Probability and Stochastic Processes - International Imam Khomeini University, Qazvin, Iran, 2017 
- The 44<sup>th</sup> Annual Meeting of Statistical Society of Canada - Brock University, St. Catharines, Canada, 2016 
- The 1<sup>st</sup> Nonparametric Seminar and Its Applications, Allameh Tabataba'i University, Tehran, 2016 
- The 10<sup>th</sup> Seminar on Probability and Stochastic Processes, University of Yazd, Yazd, Iran, 2015 
- The 46<sup>th</sup> Iranian Mathematical Conference, University of Yazd, Yazd, Iran, 2015 

- The 8<sup>th</sup> International Conference of Iranian Operations Research Society, Ferdowsi University of Mashhad, Mashhad, 2015 
- The 12<sup>th</sup> Iranian Statistical Conference, Razi University, Kermanshah, Iran, 2014 
- The International Conference on Intellectual Capital Management (IICM 2012), Science and Technology Park of Zanzan University of Advanced Technologies, Zanzan, Iran, 2012 
- The 11<sup>th</sup> Iranian Statistical Conference - Iran University of Science and Technology, Tehran, Iran, 2012 
- The 10<sup>th</sup> Iranian Statistical Conference, University of Tabriz, Tabriz, Iran, 2010 
- The 6<sup>th</sup> National Statistics Seminar - Payame Noor University, Ahvaz Center, 2010 

## Workshops

- *Sensitivity, uncertainty and inference in mathematical models of infectious diseases*, NOVA School of Science and Technology, NOVA University Lisbon, 2023 
- *Markov Chains in Epidemiology*, NOVA School of Science and Technology, NOVA University Lisbon, 2023 
- *An Introduction to Bayesian Nonparametric Methods with Applications in Biostatistics*, NOVA School of Science and Technology, NOVA University Lisbon, 2023 
- *Bioinformatics tools for multi-omics analysis*, NOVA School of Science and Technology, NOVA University Lisbon, 2023
- *Joint Models for Longitudinal and Survival Data*, XXVI Conference of the Portuguese Statistical Society, University of Minho, 2023 
- *Bayesian inference in medical statistics and epidemiology: a brief introduction*, Center for Mathematics and Applications (NOVA Math), NOVA School of Science and Technology, NOVA University Lisbon, 2023 
- *Introduction to Data Science with R*, NOVA School of Science and Technology, NOVA University Lisbon, 2022 
- *Machine Learning Models in R*, NOVA School of Science and Technology, NOVA University Lisbon, 2022 
- *Time Series Analysis and Prediction with R*, NOVA School of Science and Technology, NOVA University Lisbon, 2022 
- *Introduction to Official Statistics*, Iranian Statistical Society, 2022 
- *Introduction to Statistical Simulation*, Iranian Statistical Society, 2022 
- *Research Methodology and Questionnaire Design*, Iranian Statistical Society, 2022 
- *Study of Genome-Wide Association (Genetic Statistics Concepts, Methods, and Tools)*, Mazandaran University, 2022 
- *Introduction to Clustering as an Unsupervised Machine Learning Approach*, Mazandaran University, 2022 
- *Teaching Data Science*, International Statistical Institute (ISI), 2021 
- *High-Throughput Phenotyping Driven Quantitative Genetics*, NOVA School of Science and Technology, NOVA University Lisbon, 2021 
- *Data Science, from Principles to Applications*, Interdisciplinary Schools, Interdisciplinary Schools with partnership Iranian Statistical Society, Data Science Lab at Ferdowsi University of Mashhad, and Department of Autism & Neurodevelopmental Disorders at Tehran University of Medical Sciences, 2021 
- *Deep Learning in R*, University of Yazd, 2020 

- Non-Smooth Optimization and its Applications, University of Urmia, 2020 
- *Virtual Data Science Summer School*, Urban Innovation Center of Mashhad Municipality and Faculty of Mathematical Sciences, Ferdowsi University of Mashhad, 2020 
- *Introduction to Structural Equation Modeling (SEM) Concepts and Implementation with Smart PLS Software*, Neyshabur University, 2018 
- *Introduction to Statistical Machine Learning*, Shahrood University of Technology, 2018 
- *Introduction to Machine Learning with Industrial Applications*, Bu-Ali Sina University, Hamedan, 2017 
- *Statistical Machine Learning*, Ferdowsi University of Mashhad, 2017 
- The 6<sup>th</sup> National Workshop on Statistics and Fuzzy Probability, Shahrood University of Technology, 2016 
- *Data Analysis Using Nonparametric Statistics with R Software*, Allameh Tabataba'i University, Tehran, 2016 
- *Bayesian Inference for Poisson Process and Applications in Reliability*, Brock University, 2016 
- *APA Referencing*, Brock University, 2016 
- *Online Course Strategies*, Brock University, 2016 
- *Essays: These Statements*, Brock University, 2016 
- *Essays Strong Paragraph Structure*, Brock University, 2016 
- *Writing for Sciences*, Brock University, 2016 
- *Grammar*, Brock University, 2016 
- *Numerical Methods in Financial Mathematics*, The 46th Iranian Mathematical Conference, Yazd, 2015 
- *Advanced Workshop on L<sup>A</sup>T<sub>E</sub>X* - The 46th Iranian Mathematical Conference, Yazd, 2015 
- *Mathematical Medicine*, The 46th Iranian Mathematical Conference, Yazd, 2015 