

**Reza (SeyedReza) Hashemi, PhD,**

**Nationality: Iranian,**

**Date of Birth: 03,02, 1967,**

**Place of Birth: Kermanshah, Iran**

**Sex: Male,**

**Language: French Fluent, English Fluent, Farsi mother tongue,**

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ORCID: 0000-0002-9955-3304

**Curriculum Vitae**

**EDUCATION:**

Ph.D. in Applied Statistics (Epidemiology and Public Health), Université Bordeaux II, France  
1998–2002, Dissertation: Modèle de Survie appliqués a la démence: Modèle conjointe de marquer et d'évènements

MSc in Applied Statistics, Tarbiat Modarres University, Tehran, Iran  
1991–1994

Dissertation: Point processes and its applications

BSc Statistics, Shahid Beheshti University, Tehran, Iran  
1985–1990

**EMPLOYMENT HISTORY**

Date	Institution & Position	Responsibilities	Details
2019-	Razi University of Kermanshah, Iran	Associate Professor in Applied Statistics Course Leader PhD and MSc in Statistics;	Continue the activities presented below, member of Razi University's Promotion Board of Academic Staff.
2018-2019	Université Bordeaux II, France	Sabbatical	Research on the dynamic prediction in joint modelling of multivariate longitudinal and time to event project and coding the corresponding program with R
2014-2018	Razi University of Kermanshah, Iran	Associate Professor in Applied Statistics Course Leader PhD and MSc in Statistics;	Teaching responsibilities include leading and teaching a number of modules at PhD and Masters level (Advanced Probability Theory; Martingale Theory; Information Theory; Advanced Survival Analysis; Dissertations) Course Leadership responsibilities include leading a team of 7 assistant professors and lecturers teaching on the program; working

			<p>on students' admission; assessment and progression; developing and validating new modules; reviewing and restructuring course programs; providing pastoral help to students and dealing with students' university-related problems</p> <p>Research responsibilities include conducting high quality research and disseminating its results; presenting and publishing research output; coding the necessary programs with R; applying for and attracting research grants; investigating and negotiating collaborative/joint projects with potential partners; supervising PhD and Masters students; contributing to the faculty's research lecturers teaching on the program; working on students' admission; assessment and progression; developing and validating new modules; reviewing and restructuring course programs; providing pastoral help to students and dealing with students' university-related problems. Coding the necessary programs with R; applying for and attracting research grants; investigating and negotiating collaborative/joint projects with potential partners; supervising PhD and Masters students; contributing to the faculty's research committees</p> <p><b>Experience in Distance Learning:</b> Supervising MSc and PhD students in a distant mode</p>
2013-2013	University of McGill, Montreal, Canada	Visiting Scholar	A summer research scholarship hosted by The McGill University, Montreal, Canada; Responsibilities included designing and conducting research, (leading to one publication in refereed journal); running lectures/seminars in the department
2007-2014	Faculty of Science, Razi University, Kermanshah, Iran	Dean	Some of my activities in this position involved planning and administering regarding the promotion of academic staff, leading the research purposes, oversaw the educational quality, developing and planning the short and the long term missions of the faculty, administrating and leading schedules, interview and recruiting academic staff and other responsibilities of a dean.

2002-2014	Razi University of Kermanshah, Iran	Assistant Professor in Applied Statistics	Teaching on a number of UG and PG modules including Stochastic Processes, Matrix Algebra Useful for Statistics, Mathematical Statistics I & II, Experimental Design, Regression, Statistical Methods, Sampling Methods, Applied Statistics for Engineering, MSc Dissertations
2004-2006	Department of Statistics, Razi University, Kermanshah, Iran	Head	In this position, I recruited faculty, oversaw implementation of the institutional curriculum, and helped colleagues develop new curricula for new courses
2002-2015	Departments Of Statistics and Business Azad University, Kermanshah Branch, Iran	Adjunct Professor	Teaching a number of UG and PG modules including Regression, Mathematical Statistics, Applied Statistics for Business and Management, Structural Equation Modelling for Management and Accounting, MA Dissertation
1995-1998	Razi University of Kermanshah, Iran	Lecturer in Statistics	Teaching on a number of UG modules including Calculus for Engineering students, Introductory Statistics, Sampling Surveys
1992-1994	Sharyati Vocational Girls College, Tehran, Iran	Lecturer in Statistics	Teaching a number of UG modules including Calculus, Experimental Designs, Mathematical Statistics, Applied Statistical Methods

## RESEARCH EXPERIENCE

### Book:

Jaefari, H., Hashemi, R., Niaparast, M. (2004). Using Statistical Analysis System (SAS) (in Persian), Razi University Press

Hashemi, R., Jaefari, H. (2013) Monte Carlo Simulation Methods (in Persian), Razi University Press

## Selected Publications in Refereed Journals:

Dynamic Prediction of an Event Using Multiple Longitudinal Markers: A Model Averaging Approach

Statistics in Medicine

2025-06 | Journal article

DOI: [10.1002/sim.70122](https://doi.org/10.1002/sim.70122)

Part of ISSN: [0277-6715](https://doi.org/10.1002/sim.70122)

Part of ISSN: [1097-0258](https://doi.org/10.1002/sim.70122)

Contributors: Reza Hashemi; Taban Baghfalaki; Viviane Philipps; Helene Jacqmin-Gadda

Modeling error distribution in accelerated failure time models using a Dirichlet processes mixture model with the Burr XII distribution as the kernel

Journal of Statistical Sciences

2025-09-01 | Journal article

DOI: [10.61186/jss.19.1.7](https://doi.org/10.61186/jss.19.1.7)

Contributors: bahram Haji joudaki; Soliman Khazaei; reza Hashemi

Bayesian joint modelling of multiple longitudinal outcomes and dependent competing risks using bivariate Marshall–Olkin weibull distribution

ournal of Statistical Computation and Simulation

2024 | Journal article

DOI: [10.1080/00949655.2023.2237158](https://doi.org/10.1080/00949655.2023.2237158)

EID: 2-s2.0-85165583951

Part of ISSN: [15635163 00949655](https://doi.org/10.1080/00949655.2023.2237158)

Contributors: Arabi, Z.S.; Hashemi, R.; Baghfalaki, T.

Analysis of the Three-parameter Weibull Distributed Lifetime Data based on Progressive Type-II Right Censoring: a New Approach to Determine the Random Removals

Journal of the Iranian Statistical Society

2024-11 | Journal article

DOI: [10.22034/jirss.2024.1999725.1020](https://doi.org/10.22034/jirss.2024.1999725.1020)

Contributors: Maryam Sharafi; Reza Hashemi; Masumeh Ghahramani

A Two-stage Approach for Variable Selection in Joint Modeling of Multiple Longitudinal Markers and Competing Risk Outcomes

2024 | Journal article

DOI: [10.48550/ARXIV.2412.03797](https://doi.org/10.48550/ARXIV.2412.03797)

Contributors: Taban Baghfalaki; Reza Hashemi; Christophe Tzourio; Catherine Helmer; Helene Jacqmin-Gadda

A Two-stage Joint Modeling Approach for Multiple Longitudinal Markers and Time-to-event Data

2024 | Journal article

DOI: [10.48550/ARXIV.2412.05765](https://doi.org/10.48550/ARXIV.2412.05765)

Contributors: Taban Baghfalaki; Reza Hashemi; Catherine Helmer; Helene Jacqmin-Gadda

Joint Modeling of Longitudinal Measurements and Time-to-event Outcomes Using BUGS  
arXiv

2024 | Other

DOI: [10.48550/arXiv.2403.07778](https://doi.org/10.48550/arXiv.2403.07778)

EID: 2-s2.0-85199814977

Part of ISSN: [23318422](https://doi.org/10.48550/arXiv.2403.07778)

Contributors: Baghfalaki, T.; Ganjali, M.; Barbieri, A.; Jacqmin-Gadda, H.; Hashemi, R.

Survival analysis using Dirichlet process mixture model with three-parameter Burr XII distribution as kernel

Communications in Statistics: Simulation and Computation

2024 | Journal article

DOI: [10.1080/03610918.2022.2076868](https://doi.org/10.1080/03610918.2022.2076868)

EID: 2-s2.0-85131679570

Part of ISSN: [15324141 03610918](https://doi.org/10.1080/03610918.2022.2076868)

Contributors: Joudaki, B.H.; Hashemi, R.; Khazaei, S.

Stochastic comparisons of series and parallel systems with dependent log-logistic components  
Communications in Statistics - Theory and Methods

2023 | Journal article

DOI: [10.1080/03610926.2021.1990951](https://doi.org/10.1080/03610926.2021.1990951)

EID: 2-s2.0-85117330287

Part of ISSN: [1532415X 03610926](https://doi.org/10.1080/03610926.2021.1990951)

Contributors: Ghanbari, F.; Barmalzan, G.; Hashemi, R.

Analysis of competing risks in the CoxPH model for progressive censoring with binomial removal

Jorjani Biomedicine Journal

2023-12-01 | Journal article

DOI: [10.61186/jorjanibimedj.11.3.14](https://doi.org/10.61186/jorjanibimedj.11.3.14)

Contributors: Ahmad Pourdarvish; Reza Hashemi; Jabbar Azar; Solmaz Norouzi

Semiparametric Model for Recurrent Event Data Under Two Independent Competing Risks with Excess Zero and Informative Censoring

Sankhya A

2022-01-16 | Journal article

DOI: [10.1007/s13171-021-00270-3](https://doi.org/10.1007/s13171-021-00270-3)

Part of ISSN: [0976-836X](https://doi.org/10.1007/s13171-021-00270-3)

Part of ISSN: [0976-8378](https://doi.org/10.1007/s13171-021-00270-3)

The competing risks analysis for parallel and series systems using Type-II progressive censoring  
Communications in Statistics - Theory and Methods

2020 | Journal article

DOI: [10.1080/03610926.2019.1620779](https://doi.org/10.1080/03610926.2019.1620779)

EID:

2-s2.0-85066620883

Part of ISSN: [1532415X 03610926](https://doi.org/10.1080/03610926.2019.1620779)

Contributors: Amiri, L.; Ganjali, M.; Hashemi, R.; Khazaei, M.

Analysis of the progressively Type-II right censored data with dependent random removals

Journal of Statistical Computation and Simulation

2020 | Journal article

DOI: [10.1080/00949655.2020.1713132](https://doi.org/10.1080/00949655.2020.1713132)

EID: 2-s2.0-85078456760

Part of ISSN: [15635163 00949655](https://doi.org/10.1080/00949655.2020.1713132)

Contributors: Ghahramani, M.; Sharifi, M.; Hashemi, R.

An adjusted cumulative Kullback-Leibler information with application to test of exponentiality

Communications in Statistics - Theory and Methods

2020 | Journal article

DOI: [10.1080/03610926.2018.1529243](https://doi.org/10.1080/03610926.2018.1529243)

EID: 2-s2.0-85059335805

Part of ISSN: [1532415X 03610926](https://doi.org/10.1080/03610926.2018.1529243)

Contributors: Zohrevand, Y.; Hashemi, R.; Asadi, M.

Stochastic Comparisons of (n-k+1)-out-of-n Systems with Independent and Heterogeneous Log-Logistic Components

Journal of Applied Mathematical Modeling

2020-12 | Journal article

DOI: [10.22055/jamm.2020.31100.1760](https://doi.org/10.22055/jamm.2020.31100.1760)

Contributors: Fariba Ghanbari <sup>1</sup>, Ghobad Barmalzan <sup>2</sup>, SEYEDREZA HASHEMI

Mean residual weighted versus the length-biased Rayleigh distribution

Journal of Statistical Computation and Simulation

2015 | Journal article

DOI: [10.1080/00949655.2014.942306](https://doi.org/10.1080/00949655.2014.942306)

EID: 2-s2.0-84943657491

Part of ISSN: [15635163 00949655](https://doi.org/10.1080/00949655.2014.942306)

Contributors: Feizjavadian, S.H.; Hashemi, R.

Analysis of dependent competing risks in the presence of progressive hybrid censoring using Marshall–Olkin bivariate Weibull distribution

Computational Statistics & Data Analysis

2015-02 | Journal article

DOI: [10.1016/j.csda.2014.08.002](https://doi.org/10.1016/j.csda.2014.08.002)

Contributors: S.H. Feizjavadian; R. Hashemi

Bayesian joint modeling of longitudinal measurements and time-to-event data using robust distributions

Journal of Biopharmaceutical Statistics

2014 | Journal article

DOI: [10.1080/10543406.2014.903657](https://doi.org/10.1080/10543406.2014.903657)

EID: 2-s2.0-84901343699

*Part of ISSN: [15205711](https://doi.org/15205711) [10543406](https://doi.org/10543406)*

Contributors: Baghfalaki, T.; Ganjali, M.; Hashemi, R.

Investigating deaf students' knowledge of Persian syntax: Further evidence for a critical period hypothesis

Neurocase

2014 | Journal article

DOI: [10.1080/13554794.2013.791858](https://doi.org/10.1080/13554794.2013.791858)

EID: 2-s2.0-84893799967

*Part of ISSN: [13554794](https://doi.org/13554794) [14653656](https://doi.org/14653656)*

Contributors: Gheitury, A.; Ashraf, V.; Hashemi, R.

Analysis of competing risks in the Burr XII model in the presence of progressive type-II censoring

Proceedings of the Jangjeon Mathematical Society

2012 | Conference paper

EID: 2-s2.0-84857014938

*Part of ISSN: [15987264](https://doi.org/15987264)*

Contributors: Pourdarvish, A.; Hashemi, R.; Azar, J.

The PhD game in a Middle Eastern setting: A small-scale study of science students in an Iranian university

Quality in Higher Education

2011 | Journal article

DOI: [10.1080/13538322.2011.614471](https://doi.org/10.1080/13538322.2011.614471)

EID: 2-s2.0-84859041742

*Part of ISSN: [13538322](https://doi.org/13538322) [14701081](https://doi.org/14701081)*

Contributors: Hasrati, M.; Hashemi, R.

A latent process model for joint modeling of events and marker

Lifetime Data Analysis

2003 | Journal article

DOI: [10.1023/B:LIDA.0000012420.36627.a6](https://doi.org/10.1023/B:LIDA.0000012420.36627.a6)

EID: 2-s2.0-2942549785

*Part of ISSN: [13807870](https://doi.org/13807870)*

Contributors: Hashemi, R.; Jacqmin-Gadda, H.; Commenges, D.

Correction of the p-Value after Multiple Tests in a Cox Proportional Hazard Model

Lifetime Data Analysis

2002 | Journal article

DOI: [10.1023/A:1020514804325](https://doi.org/10.1023/A:1020514804325)

EID: 2-s2.0-0036884162

Part of ISSN: [13807870](https://doi.org/10.1023/A:1020514804325)

Contributors: Hashemi, R.; Commenges, D.

### Local Papers:

Sharifi, M. Naderi, B. Hashemi, R. (2013). Suitability of the photographic identification method as a tool to identify the endangered yellow spotted newt, Russian journal of Herpetology

Jaefari, H. Hashemi, R. (2011). Optimal design in a simple linear regression with skew normal distribution for error term, Journal of Applied Mathematics

Hashemi, R. Abdolahi, M. (2011). Precise Asymptotics in complete moment convergence of the uniform empirical process, International Journal of Mathematical Analysis, Vol. 5, no. 11, 523 – 532

Hashemi, R. Abdolahi, M. Azar, J. (2011). Precise Asymptotics of generalized stochastic order statistics for extreme value distributions, Applied Mathematical Sciences, Vol. 5, no. 22, 1089 – 1102

Hashemi, R. Amiri, L. (2011). Progressive censoring in the Weibull Model for competing risks with binomial removals, Applied Mathematical Sciences, Vol. 5, no. 22, 1073 – 1087

Hashemi, R. Abdolahi, M. (2010). Precise Asymptotics for the first moment of the error variance estimator in linear models, International Mathematical Forum

Mirmomeni, M.H. Mohamadi, F. Sisakhtnezhad, S. Hashemi, R. Nazari, Gh. (2009). Statistical Analysis of different cancers in Kermanshah province, Biological Sciences

Hashemi, R. Rezaei, S. Amiri, L. (2009). Nonparametric density estimation with respect to the Linex loss function, International Journal of Research and Reviews In Applied Sciences

Hashemi, R. Abdolahi, M. (2009). Precise Asymptotics in the law of the iterated logarithm and complete convergence for U-statistics, International Journal of Research and Reviews In Applied Sciences

Also 8 Papers in Iranian Scientific Journals (in Persian)

### Selected Conference Presentations:

2020: 1 Paper in the 15<sup>th</sup> International Conference of Iranian Statistical Society Yazd, Iran.

2014: 2 papers in the 12<sup>th</sup> International Conference of Iranian Statistical Society Kermanshah, Iran

2011: A hidden Markov model for hand writing detection. 8<sup>th</sup> Biannual Seminar of Probability and Stochastic Processes Tehran, Iran

2011: A new method for face recognition with the hidden Markov models. 8<sup>th</sup> Biannual Seminar of Probability and Stochastic Processes Tehran, Iran

2010: Paper presented at the International Conference of COMPSTAT 2010 Paris, France

2010: Two papers presented at the 10<sup>th</sup> International Conference of Iranian Statistical society

2010: Paper presented at the 23<sup>rd</sup> International Conference of Jangjeon Mathematical society

2009: Two papers presented at the 7<sup>th</sup> Biannual Seminar of Probability and Stochastic Processes Isfahan Iran

2009: Paper presented at the 3<sup>rd</sup> International Conference of Mathematics and Statistics Athens Greece

2007: Paper presented at the 6<sup>th</sup> Biannual Seminar of Probability and Stochastic Processes Babolsar, Iran, as invited speaker

2001: Stochastic Processes and Its Application Cambridge University, U.K. I attended and presented a paper in the conference

2000: MMR 2000 Conference: I attended and presented a paper in Mathematical Methods in Reliability Conference, Bordeaux, France

1999: Seminar of Stochastic Processes and Its Application. Athens, Georgia State University, USA

1999: IMS, and Bernoulli Society Conference, Guanajuato, Mexico

**THESIS SUPERVISION:**

2014: PhD Thesis of Seyed Hamed Feizjavadian

2018: PhD Thesis of Yoones Zohrevand

2021: PhD Thesis of Bahram Haji Joodaki

2024: PhD Thesis of Zahra Sadat Arabi

30 MSc. Thesis in Survival analysis, Reliability, Probability theory, hidden Markov models, Structural equations and High dimensional penalized regression.

35 MA. Thesis in the Management science, using structural equation modeling and other Statistical methods

**EDITORIAL RESPONSIBILITIES:**

Reviewer: *More than 30 reviews and referees for Elsevier and Springer journals*

**ORGANIZING ACADEMIC EVENTS**

2014 (August, 23-25): Acted as member of Scientific Committee of the 12th Bi-Annual International Conference of the Iranian Statistical Society

**STATISTICAL PACKAGES**

R, SPSS, SAS, LISREL, AMOS, SMARTPLS.

**RESEARCH PROJECT COLLABORATION:**

Colleague of French National Agency Research: ANR-21-CE36 for the project “Joint Models for Epidemiology and Clinical research”, Conducted in Bordeaux 2 University France.