Hossein Baghishani

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Research Interests

Correlated Data Analysis, Spatial Modeling
Statistical Computation
Bayesian Inference, MCMC Algorithms
Asymptotic Distribution Theory
Interdisciplinary Applications of Statistics

Education

1999–2003 **B.Sc.**, *Ferdowsi University of Mashhad*, Mashhad, Iran.
Statistics

2004–2005 **M.Sc.**, *Ferdowsi University of Mashhad*, Mashhad, Iran.
Title of the thesis: Composite Likelihood Based Inferences for Count Time Series

2007–2011 **Ph.D.**, *Tarbiat Modares University*, Tehran, Iran.
Title of the dissertation: Analyzing Spatial GLMMs via Data Cloning and Composite Likelihood Methods

Professional Career

2011–present **Assistant Professor**, *Shahrood University of Technology*, Shahrood, Iran.

Honors

2002–2004 **Achievements during the Masters of Science Studies**, *9th Place in the National M.Sc. Examination for Mathematical Statistics, 3rd Place in the 3rd National Statistics Student Contest, Distinguished Student of Mathematics Faculty (Ferdowsi University of Mashhad)*, Distinguished Student of Ferdowsi University of Mashhad.

2008–2011 **Ph.D. Scholarship**, Ministry of Science and Technology of Iran.

2010–2011	**Visiting Research Award**, Ministry of Science and Technology of Iran.

Professional Affiliations and Activities

2012-present	**Shahrood University of Technology, Iran**, Deputy of the Iranian Statistical Society.
2003–present	**Iranian Statistical Society**, Member.
2009–present	**Iranian Mathematical Society**, Member.
2013–present	**American Statistical Association (ASA)**, Member.
2013–present	**International Society for Bayesian Analysis (ISBA)**, Member.
2003	**7th Iranian Students Sports Olympiad Evaluation Committee**, Member.
2005–2006	**Nam Avaran Toos (Artificial Intelligence) Company**, Data Miner.
2004–2007	**Statistics and Information Technology Organization of Mashhad's Municipality**, Data Analyst.

Skills

Statistical Softwares	R, S-plus, SAS, SPSS, Minitab
Language	Fluent in Reading, Listening, Speaking, and Writing in English
Other	Typesetting in Latex and Ftex

Visiting Positions

Feb–Aug 2010	**Visiting Research Student**, *Norwegian University of Science and Technology (NTNU)*, Trondheim, Norway. Working with Prof. Håvard Rue

Refereeing Service

Journals

– Computational Statistics and Data Analysis
– Journal of Multivariate Analysis
– Australian and New Zealand Journal of Statistics
– Journal of Statistical Sciences (in Farsi)
– Journal of Advanced Mathematical Modeling (in Farsi)
– Iranian Journal of Official Statistics Studies (in Farsi)
– NEDA: Student Statistical Journal (in Farsi)

Conferences

– 11th Iranian Statistical Conference, 2012, Tehran, Iran
– Second Workshop on Spatial Statistics and Its Applications, OSDCE, 2012, Mashhad, Iran (Member of the Scientific Program Committee)

Publications

Refereed Journal Publications

(1) **Baghishani, H.** & Mohammadzadeh, M. (2012). Asymptotic normality of posterior distributions for generalized linear mixed models, *Journal of Multivariate Analysis,* **111**, 66-77.

(2) **Baghishani, H.** (2012). Discussions of "Catching up faster by switching sooner: a predictive approach to adaptive estimation with an application to the AIC–BIC dilemma" by Erven, Grünwald & de Rooij, *Journal of the Royal Statistical Society, Series B,* **74**, 402.

(3) **Baghishani, H.**, Rue, H. & Mohammadzadeh, M. (2012). On a hybrid data cloning method and its application in generalized linear mixed models, *Statistics and Computing,* **22**, 597-613.

(4) **Baghishani, H.** & Mohammadzadeh, M. (2011). A data cloning algorithm for computing maximum likelihood estimates in spatial generalized linear mixed models, *Computational Statistics and Data Analysis,* **55**, 1748-1759.

Contributions in Conference-Proceedings

(1) **Baghishani, H.** and Mohammadzadeh, M. (2009). Asymptotic Properties of Data Cloning Based Estimators, Proceedings of the 7th Seminar on Probability and Stochastic Processes, Isfahan University of Technology, 36- 42.

(2) **Baghishani, H.** and Mohammadzadeh, M. (2010). A Data Cloning Algorithm for Computing MLE in Spatial GLMMs, Proceedings of the 23rd Nordic Conference on Mathematical Statistics, NORDSTAT 2010, Voss, Norway.

Further Papers

(1) **Baghishani, H.** and Tabatabaey, M. M. (2006). Composite Likelihood Inference in Parameter Driven Models, *Journal of Statistical Sciences,* **1**, 1-17 (in Farsi).

(2) **Baghishani, H**. and Tabatabaey, M. M. (2006). Statistical Models for Time Dependent Count Data, *Andishe-ye Amari,* **11**, 31-42 (in Farsi).

(3) Partovi Nia V. and **Baghishani H.** (2005). A Review of Discrimination Methods, *NEDA,* **3**, 26-35 (in Farsi).

(4) **Baghishani H.** and Partovi Nia V. (2004). Regression with Ordinal Response and Cumulative Logit Models, *NEDA,* **2**, 32-37 (in Farsi).

(5) **Baghishani H.** and Moodi M. (2004). Comparison of Poisson and Negative Binomial Models on Insurance Data, Proceeding of 7th Iranian Statistics Conference.

Talks & Posters

Contributed Talks

(1) Fitting the Poisson Regression Model and Time Series on Insurance Data, 4th Iranian Statistics Students Conference, Ferdowsi University of Mashhad, Mashhad, Iran, 2003.

(2) Comparison of Poisson and Negative Binomial Models on Insurance Data, 7th Iranian International Statistics Conference, Allame Tabatabaee University of Tehran, Tehran, Iran, 2004.

(3) A Data Cloning Algorithm for Computing MLE in Spatial GLMMs, 23rd Nordic Conference on Mathematical Statistics, Voss, Norway, 2010.

Posters

(1) Poisson GLARMA Models in Time Series, 5th Probability and Stochastic Process Conference, Birjand University, Birjand, Iran, 2005.

(2) MCEM Algorithm, 9th Iranian International Statistics Conference, Esfahan University, Esfahan, Iran, 2007.

Teaching

Lectures

(1) Advanced Statistical Computing

(2) Statistical Inference I & II

(3) Time Series Analysis

(4) Applied Statistics and Probability for Mathematicians

(5) Applied Statistics and Probability for Engineers

(6) Applied Statistics in Management

(7) Statistics for Earth Sciences

Departments

(1) Department of Applied Mathematics, Shahrood University of Technology, Shahrood, Iran, 2011-present.

(2) Department of Engineering, Shahrood University of Technology, Shahrood, Iran, 2011-present.

(3) Department of Management, Shahrood University of Technology, Shahrood, Iran, 2011-present.

(4) Faculty of Health, Safety and Environment, Shahid Beheshti University of Tehran, Iran, 2007.

(5) IT and Business School, Mashhad, 2004-2005.