

In the name of Allah

REYHANEH RIKHTEHGARAN

Affiliation: Assistant Professor in Department of Mathematical Sciences, Isfahan University of Technology

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Research Fields :

- Mixed-effects models, Longitudinal data analysis
- Generalized linear models
- Clustering methods
- Image Processing

Educational Qualifications

B.Sc.: Statistics

Department of Mathematical Sciences, Isfahan University of Technology, Isfahan, Iran,
Sept.2000 - Jun.2004.

M.Sc.: Mathematical Statistics

Department of Mathematical Sciences, Isfahan University of Technology, Isfahan, Iran,
Sept.2004 - Mar.2007.

Title: Bayesian approach to unsupervised segmentation of color images.

Ph.D.: (Applied) Statistics

Department of Statistics, University of Isfahan, Isfahan, Iran,

Sept.2007- Oct.2012.

Title: Fitting mixed models using flexible random-effects distributions in a Bayesian perspective.

Supervisor: Dr Iraj Kazemi,

Dr. Iraj Kazemi

Assistant Professor of Applied Statistics

Department of Statistics, College of Science, University of Isfahan, Isfaha, Iran.

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Sabbatical leave period:

Leuven Biostatistics and statistical Bioinformatics Centre, KU Leuven, Leuven, Belgium.

13th Jan.2011- 28th Aug.2011.

Supervisor: Prof Geert Verbeke

Prof.dr. Geert Verbeke

I-BioStat: Interuniversity Institute for Biostatistics and statistical Bioinformatics

L-BioStat: Leuven Biostatistics and statistical Bioinformatics Centre KU Leuven

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Collaboration with Professor Emmanuel Lesaffre in project:

Prediction of hemoglobin levels of blood donors at the Sanquin blood bank (The Netherlands).

Prof. Emmanuel Lesaffre

Professor in Biostatistics at Erasmus MC, Rotterdam, The Netherlands

and L-Biostat, K.U.Leuven, Leuven, Belgium

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Publications

Publications in ISI Journals:

R. Rikhtehgaran, I. Kazemi, G. Verbeke, Wim de Kort and E. Lesaffre, 2012. Piecewise transition models with random effects for unequally-spaced longitudinal Measurements. *Statistical Modelling: An International Journal*, 12 (6), 503-525.

R. Rikhtehgaran and I. Kazemi, 2013. Semi-parametric Bayesian Estimation of Mixed-Effects Models Using a Multivariate Skew-Normal Distribution. *Computational Statistics*, DOI 10.1007/s00180-012-0392-3.

I. Kazemi, and R. Rikhtehgaran, 2013. Topics on Dynamic Panel Data Models with Random Effects Using Semi-Parametric Bayesian Approach. *Communications in Statistics: Theory and Methods*. (To appear).

Publications and presentations in conferences:

R. Rikhtehgaran and S. Sadri and S.M. Taheri, 2007. A Bayesian approach to image interpretation, *Proceeding of 4th Iranian Conference on Machine Vision and Image Processing, Mashhad, Iran*, 997-1004.

R. Rikhtehgaran and S. Sadri and S.M. Taheri, 2007. Unsupervised segmentation of color images in a Markovian framework, *15th Iranian Conference on Electrical Engineering, Iran Telecommunication Research Center, Tehran, Iran*. Presented.

R. Rikhtehgaran and S. Sadri and S.M. Taheri, 2007. Interpretation of image regions using Markov random Fields, *6th Seminar on Probability and Stochastic Processes, Babolsar, Iran*. Poster.

R. Rikhtehgaran, 2007. Image Processing in Pathology for Cervical Cancer Detection, 2007. *Research Center of Medical Image and Signal Processing of Isfahan*. Talk.

R. Rikhtehgaran and I. Kazemi, 2010. Semi-parametric Bayesian Models for Transition Longitudinal Data, *Proceeding of 10th Iranian Statistical Conferences, University of Tabriz*, 352-359.

Rikhtehgaran, R., Kazemi, I., Verbeke, G., Kort, W.D. and Lesaffre, E. 2012. Piecewise transition models with random effects for unequally-spaced measurements. *Proceeding of the 27th International Workshop on Statistical Modelling (IWSM)*, Prague, Czech Republic, 279-284.

* Getting the award of the 27th International Workshop on Statistical Modelling (IWSM), Prague, Czech Republic, 2012,

Rikhtehgaran, R. and Kazemi, I. 2012. Applying skew-normal distributions in Dirichlet processes for mixed-effects modeling. *Proceeding of the 11th Iranian Statistical Conferences, Tehran, Iran*, 534-541.

Rikhtehgaran, R., Kazemi, I. 2013. Dirichlet process as a mixing prior for Normal/independent distributions in fitting linear mixed models. *The 9th Seminar on Probability and Stochastic Processes, University of Sistan and Baluchestan*, 11-12 Sep. (Accepted).

Teaching Experiences

Teaching at the **University of Isfahan**:

- Statistics and its application in accounting, Sept. 2007-Jan. 2008.
- Statistics and its application in accounting, Jan. 2008-Jun. 2008.
- Regression, Sept. 2008-Jan. 2009.

Teaching at the **Isfahan University of Technology**:

- Statistical Methods, Sep. 2011 - Jan. 2012.
- Statistics and Probability for Natural Resources, Sep. 2011 - Jan. 2012.
- Statistical Methods, Jan. 2012 - Jun. 2012.
- Regression, Jan. 2012 - Jun. 2012.
- Probability Concepts, Sep. 2012 - Jan. 2013.
- Probability and Statistics for Engineering, Sep. 2012 - Jan. 2013.
- Statistical Computing with Computer, Sep. 2012 - Jan. 2013.
- Statistical Methods, Jan. 2013 - Jun. 2013.
- Probability Concepts, Jan. 2013 - Jun. 2013.
- Data Analysis, Jan. 2013 - Jun. 2013.

Work Experiences

- “Designing system of gathering information about bread consumption and its wastage in Iran” for Trade Ministry, in cooperation with Statistical Research Center of Isfahan University of Technology. (Mar. 2004-Sept. 2004)
- “Evaluation of the satisfaction factors of contractors” for Steel Industry of Isfahan, 2007. (Cooperator in Design of questionnaire)
- Cooperation in designing an automatic system of detection of cervical cancer in Pap-smear images, Official Research Center of Medical Image and Signal Processing, 2007.

- Leader in performing exhibition of statistical concepts, in the Isfahan House of Mathematics, 2007.
- Leader in performing exhibition of statistical concepts, in the Isfahan House of Mathematics, 2010.
- Cooperation in modeling the hemoglobin level of blood donors in Sanquin blood bank (The Netherlands) during the years 2000-2004. (Feb. 2011- until now).

Computer Skills

Tools: Matlab, SAS, WinBUGs/OpenBUGs, SPSS, Stata.
Latex, FarsiTex.