

**Vahid PARTOVINIA** Address: 12<sup>th</sup> Floor, Office 1242, 805 Sherbrooke Street West, Department of Mathematics and Statistics, McGill University, Montreal H3A 2K6, Canada. Phone: +1 514 398 2891 E-mail: (partovi at math.mcgill.ca), Personal Website: <http://vahid.probstat.ca/>, Sex: Male, Nationality: Iranian, Canadian Immigrant, Birth Date: 1980, Martial Status: Single.

## **EDUCATION**

Swiss National Science Foundation Postdoctoral Fellow at McGill, Montreal, Canada. Ph.D. in Statistics, Ecole Polytechnique Fédérale de Lausanne, Switzerland. M.Sc. in Mathematical Statistics, Ferdowsi University of Mashhad, Iran, 2004. B.Sc. in Statistics, Ferdowsi University of Mashhad, Iran, 2002.

## **JOB POSITIONS**

Postdoctoral Fellow at McGill University (2009-). Teaching Assistant at Ecole Polytechnique Fédérale de Lausanne (2005-2009). Researcher of the National Centre of Competence in Research in Plant Survival, the University of Neuchatel (2006-2009). Data Analyst, IT Organization of The Mashhad Municipality. Statistics Consultant, Ferdowsi University of Mashhad (2004-2005). Experiment Designer-Analyst, Talayeh-Gostaran Quality Company (2004).

## **TEACHING ASSISTANTSHIPS**

Statistics for mathematicians 2 semesters. Statistics for engineers 5 semesters. Categorical Data Analysis 1 semester. Regression 2 semesters. Statistical Methods 1 semester. Multivariate Analysis 1 semester. Time Series Analysis 1 semester. Mathematical Analysis 1 semester.

## **PROJECTS SUPERVISED**

"Survival and Censored Data" by Lafteris Samatzis. "Tree Representation of Monte Carlo Clustering" by Arpid Chaudhary.

## **COMPUTER ABILITIES**

Programmer of R and C. Expert in S-Plus, SPSS and SAS. Acquainted with Maple and Matlab. Linux fan, Windows user.

## **HONORS and AWARDS**

Top Ranks in National MSc Entrance Exam Among Nearly 2000 Students of Statistics: 2nd Rank in Mathematical Statistics, 5th Rank in Biostatistics, 8th Rank in Applied Statistics. Winner of the outstanding research proposal for master dissertation, Ministry of Science, Research and Technology of Iran. Winner of the student paper award for "Art of Modeling in Statistics" in Farsi. Two-year joint fellowship of the Swiss National Science Foundation (with the McGill university and the Oxford university) for High-Dimensional Bayesian Clustering research proposal.

## **LANGUAGE ABILITIES**

Fluent in Farsi, English and Esperanto, Moderate in French and Arabic.

## **POSTGRADUATE COURSES PASSED**

Monte Carlo Statistical Methods, Bayesian Programming in Robotics, Robust and Nonparametric Statistics, Advanced Design of Experiments, Advanced Topics in Statistics.

## **REFERENCES**

David Stephens (dstephens at math.mcgill.ca), Anthony C. Davison (anthony.davison at epfl.ch), Masoud Asgharian (masoud at math.mcgill.ca).

## PUBLICATIONS

### Refereed

- Partovi Nia, V. *Fast High-Dimensional Bayesian Classification and Clustering*, Ph.D. thesis, **Ecole Polytechnique Fédérale de Lausanne**.
- Parchami, A., Mashinchi, M., and Partovi Nia, V. (2008) *A Consistent Confidence Interval for Fuzzy Capability Index*, **Applied and Computational Mathematics**, Vol. 7, no. 1, 119-125.
- Messerli, G., Partovi Nia, V., Trevisan, M., Kolbe, A., Schauer, N., Geigenberger, P., Chen, J., Davison, A. C., Fernie, A. R. and Zeeman, S. C. (2007) *Rapid Classification of Phenotypic Mutants of Arabidopsis Via Metabolite Fingerprinting*, **Plant Physiology**, Vol. 143, 1484-1492.
- Partovi Nia, V. (2006) *Gauss-Hermite Quadratures: Numerical or Statistical Method?* **The 8th. Iranian Statistical Conference Proceedings** (invited and refereed papers), 209-215.

### Submitted

- Partovi Nia, V. and Davison, A. C. *Empirical Bayesian Classification and Clustering*.
- Partovi Nia, V. and Davison, A. C. *High-Dimensional Bayesian Clustering with Variable Selection*.
- Partovi Nia, V. and Stephens, D. *Dendrogram Representation of Stochastic Clustering*.

### Manuscript

- Asgharian, M., Cosma, I., and Partovi Nia, V., *A Stopping Rule for MCMC Clustering*.

### Working Projects

- with Asgharian M., *Bayesian Biclustering with Subject and Attribute Importances*.
- with Stephens D., *Clustering of Three-Dimensional Spheres*.

### Contributed conference presentations

- Partovi Nia, V. and Davison, A. C. (2008) *Rapid Variable Selection for Bayesian Clustering* presented in EPFL research Day, poster.
- Davison, A. C. and Partovi Nia, V. (2007) *Fast High-Dimensional Classification and Clustering* presented in [Statistical Methods in Bioinformatics](#) in Munich, poster.
- Partovi Nia, V. and Davison, A. C. (2006) *Bayesian Metabolite Fingerprinting* presented in [International Biometric Conference](#) in Montreal, poster.

### Software and Packages

- labeltodendro: R-Package with Arpit Chaudhary and Anthony C. Davison.
- bclust: R-Package with Anthony C. Davison.