

# Adel Mohammadpour

## Curriculum Vitae

*Heavy-Tail, Large Scale Data Science, Mining, Analysis*

### Experience

- 2000-Present **Faculty Member**, *Department of Statistics, Faculty of Math. & Computer Science, Amirkabir University of Technology (Tehran Polytechnic).*
- 2017Summer **Visiteur**, *Ecole Polytechnique de Montreal, GERAD.*
- 2014 **Sabbatical**, *Department of Economics, McGill University.*
- 2010–2014 **Head**, *Department of Statistics, Tehran Polytechnic.*
- 2008–2012 **Director**, *Iranian Statistical Society.*
- 2006–2010 **Vice-Chancellor**, *Statistical Research and Training Center, Iran.*
- 2003–2006 **Post-Doc**, *Laboratoire des signaux et systèmes, CNRS-Univ. Paris 11, Supélec.*
- 2002–2003 **Visiteur**, *Équipe Probabilités et Statistiques, Départ. de Math., Univ. Paris 11.*

### Education

- 1995–2000 **Ph.D. in Statistics**, *Shiraz University*,  
Dissertation title: Topics on Exchangeable Normal and Stable Random Vectors,  
Supervisors: Profs. J. Behboodian and A. R. Soltani.  
Exemplar student in Iran
- 1993-1995 **M.Sc. in Statistics**, *Shiraz University*,  
Thesis title: Exchangeability and Its Applications,  
Supervisor: Prof. J. Behboodian.  
First rank student
- 1989-1993 **B.Sc. in Statistics**, *Shiraz University*,  
Project title: Automatic Model Selection in Contingency Tables,  
Prof. S. M. Sadoghi.  
First rank student

### Teaching Courses

- B.Sc. **Simulation, Statistical Methods, Time Series.**
- M.Sc. **Data Mining, Statistical Inference, Statistical Learning, Research Methods.**
- Ph.D. **Advance Statistical Inference, Clustering and Visualization.**

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## Graduated Ph.D.

- 2011 **Hadi Zare**, *A Novel Approach on Random Projection Method*.
- 2012 **Sahar Dorniani**, *Rank Set Sampling for Stable Distributions*.
- 2013 **Mona Shokripour**, *Topics on Estimating Multivariate Stable Distributions*.
- 2013 **Hamzeh Agahi**, *Extensions on Probability Inequalities and Central Limit Theorems*.
- 2014 **Mohammad Mohammadi**, *Prediction of Stable Linear Time Series*.
- 2017 **Mahdi Teimouri**, *Clustering of Multivariate Stable Data*.
- 2017 **Issac Almasi**, *Reconstruction of Stable Order Statistics*.
- 2017 **Narges Ahmadzadeh**, *Distance Selection in Clustering based on Tail of Data*.
- 2018 **Shaho Zarei**, *Classification and Clustering of High-Dim. Data with Resampling*.
- 2018 **Mohsen Salehi**, *Simultaneous Permutation Hypothesis Testing for Large-Scale Data*.

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## Books in Persian (Available on Adelm.ir)

- 2004 **Statistics Virtual Laboratory**, *Activities with S-Plus in Statistical Methods Course*, Statistical Research and Training Center.
- 2012 **Research Method**, *Manuscript*.
- 2016 **Mathematics and Statistics**, *Grade 10*, Chapters: Working with Statistical Data and Data Representation, Ministry of Education.
- 2017 **Mathematics and Statistics**, *Grade 11*, Chapters: Statistical Index and Time Series, Ministry of Education.
- 2017 **Statistics and Probability**, *Grade 11*, Chapter: Statistical Inference, Ministry of Education.
- 2017 **A Collection of Terms**, *Statistics Terms*, Terminology Department, The Academy of Persian Language and Literature.
- 2018 **Mathematics and Statistics**, *Grade 12*, Chapter: Statistics Loop, Ministry of Education.
- 2019 **Clustering Heavy-Tailed Data**, *In Progress*, English.

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## Computer skills

Intermediate C, SAS, SPSS, MATLAB, Mathematica, L<sup>A</sup>T<sub>E</sub>X, Microsoft Office, Linux  
Advanced Fortran, S-Plus, R

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## Projects

- 2000-2002 **Statistical Methods Laboratory**, *SRTC*, Statistical Research and Training Center.  
2002-2003 **Inference with Imprecise Data**, *IPM*, School of Computer Science.  
2003-2006 **Hyperspectral Image Segmentation**, *CNRS*, Supélec.  
2007-2008 **Characterization of Sub-Independent Stable RV**, *IPM*, School of Mathematics.  
2008-2009 **Time Series Laboratory**, *SRTC*, Statistical Research and Training Center.  
2009-2010 **Statistics Science-Metric in Iran**, *ISS*, Iranian Statistical Society.  
2010-2011 **Statistical Terms in Persian based on ISI Data Base**, *SRTC*.  
2010-2012 **Feasibility of Internet Survey in Iran**, *SRTC*.  
2012-2013 **Comparing Anomaly Detection Methods**, *AUT*.  
2013-2014 **Simulating Electronic Banking**, *AUT*, Amirkabir University of Technology.  
2015-2016 **Anomaly Detection in Banking**, *AUT*, Amirkabir University of Technology.  
2017-2018 **Automatic Data Analysis**, *STC*, Statistical Tools Canada.

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## Languages

- Persian **Mothertongue**  
English **Intermediate**  
French **Intermediate**  
Arabic **Basic**

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## References

- CNRS **Ali Mohammad-Djafari** *Laboratoire des signaux et systèmes,  
CentraleSupélec–CNRS–Univ Paris 11,  
Ali.Mohammad-Djafari@lss.supelec.fr 331 6985 1741*
- UoT **Rahim Moineddin** *Department of Family and Community Medicine,  
University of Toronto, rahim.moineddin@utoronto.ca 416 946-5860*
- Kuwait Univ **Ahmad R. Soltani** *Department of Statistics and Operations Research, Kuwait Univ,  
soltani@kuc01.kuniv.edu.kw*
- AUT **Mehdi Dehghan** *Faculty of Math. & CS, Amirkabir Univ Tech, Tehran Polytechnic,  
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