



Akbar Abravesh

Curriculum Vitae

Education

- 2013–2018 **PhD of Statistics**, *University of Mohaghegh Ardabili*, Ardabil, Iran , *GPA – 18.61*
(Date of defence: 2018 May 12).
Specialized in Bayesian Statistics
- 2010–2012 **Master of Mathematical Statistics**, *Shahid Beheshti University*, Tehran, Iran,
GPA – 17.61.
Specialized in Random Fields
- 2005–2009 **Bachelor of Mathematics**, *University of Mohaghegh Ardabili*, Ardabil, Iran, *GPA – 15.48*.

PhD Thesis

- Title *Bayesian inference on the reliability of stress-strength model*
- Supervisor Professor Masoud Ganji
- Advisor Assistant Professor Behdad Mostafaiy
- Description This thesis dealt with point and interval estimation of the stress-strength reliability, $P(X > Y)$. We proposed a Bayesian approach and applied our methodology to solve some problems in medicine and Engineering.

Masters Thesis

- Title *A signal detection procedure for scale-space random fields using RKHS*
- Supervisor Professor Khalil Shafie
- Advisor Assistant Professor Alireza Taheriyoon
- Description This thesis Considered the signal detection problem for scale-space random fields and built a test statistic for testing null hypothesis of no signal versus existence of the signal by reproducing kernel Hilbert space (RKHS). We obtained the covariance function for this random field and found its corresponding RKHS. Finally, we derived the generalized likelihood ratio and showed that the global maxima is an equivalent statistic for this test.

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Publications

- 2021 Siahkouhian, M., Yousefi, O., Narimani, M., & Abravesh, A. (2021). Cardio respiratory capacity measurement in active men: Validation of Self-Dependent Protocol with the Bruce protocol. *Journal of Advanced Sport Technology*, accepted
- 2021 Ahadi, F., Nazmfar, H., Masumi, M.T., & Abravesh, A. (2021). An Analysis of the Spatial Extent of Educational Poverty in Ardabil. *Journal of Geography and Environmental Studies*, 9(36), 21-38.
- 2020 Ahadi, F., Nazmfar, H., Masumi, M.T., & Abravesh, A. (2020). Spatial analysis of social poverty in Ardabil city. *Basij Strategic Studies*, 22(85), 151-179.
- 2020 Farzizadeh, R., Bolboli, L., Abravesh, A., Nakhostin, R. (2020). Comparison of the effects of two types of acute weight loss program (2 and 4%) on the levels of creatine kinase and cardiac troponin enzymes. *Feyz*, 23(6), 664-71.
- 2019 Abravesh, A., Ganji, M., & Mostafaiy, B. (2019). Estimation of reliability $P(X > Y)$ for distributions with power hazard function based on upper record values. *Mathematical Population Studies*, 26(1), 27-46.
- 2018 Abravesh, A., Ganji, M., & Mostafaiy, B. (2018). Classical and Bayesian estimation of stress-strength reliability in type II censored Pareto distribution. *Communications in Statistics-Simulation and Computation*, DOI: 10.1080/03610918.2018.1457688
- 2018 Esmailzadeh, S., Hartman, E., Farzizadeh, R., Azevedo, L. B., Kalantari, H. A., Dziembowska, I., ... & Abravesh, A. (2018). Association between physical fitness and cognitive performance in 19-24 year old males. *Biology of Sport*, 35(4), 355-362.
- 2018 Ganji, M., & Abravesh, A. (2018). An Optimal scale for the comparison of air pollution in East and West Tehran. *Environmental Sciences*, 16(2), 101-110.
- 2016 Shafie, K., & Abravesh, A. (2016). RKHS approach for signal detection in rotation and scale space random fields. *Journal of Statistical Theory and Applications*, 15(3), 214-220.

Books

- 2021 Abravesh, A. & Amiri, B. (2021). *Classical methods in non-parametric statistics using R*. Mohaghegh Ardabili Publications.

Reviewer in the Journals

- 2020 Reviewer in *Journal of Statistics in Medicine*

Workshops

- 2017 18th Workshop on applied Stochastic Processes, Shiraz University, Iran.
- 2017 Introduction to Machine Learning with Industrial Applications, Bu-Ali Sina University, Hamedan, Iran. (Workshop provider: Ali Shojaie, University of Washington)

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Conferences/Communication Skills

- 2018 Poster at the 10th conference of statistical physics, soft condensed matter and complex systems, Iranian Physical Society, Ardabil, Iran.
Title: Estimation of stress-strength reliability for distribution with power hazard function using MCMC method
- 2017 Oral Presentation at the Conference on Modern Methods in Insurance pricing and Industrial Statistics, Bu-Ali Sina University, Hamedan, Iran.
Title: A Bayesian inference on stress-strength reliability for carbon fiber data.
- 2017 Poster at the 4th International Conference of Environmental Planning and Management 2017, University of Tehran, Iran.
Title: Comparison of AQI in the East and West of Tehran by a new statistical method.
- 2017 Oral Presentation at the 18th Workshop on applied Stochastic Processes, Shiraz University, Iran.
Title: A Bayesian inference on $P(X > Y)$ for head and neck cancer data using distribution with power hazard function.

Awards

- 2010 Ranked 33th in national university entrance exam for M.Sc. degree in mathematical statistics between 3167 people.

Languages

Azeri	Mother tongue	
Persian	Native	
English	Advance	<i>Read/write excellent, speak good</i>
Turkey	Advance	<i>Conversationally fluent</i>
Arabic	Basic	<i>Read/write good, understand basic words and grammar only</i>

Computer skills

Basic	PYTHON, Delphi 7, OpenBUGS, ArcGIS
Intermediate	Mathematica, MATLAB
Advanced	R, \LaTeX , SPSS, LISREL, Amos, Minitab, Microsoft Office (Word, PowerPoint, and Excel)

Experience

Teaching

2014–Present **University of Mohaghegh Ardabili, Ardabil, Iran.**

Courses:

- Workshop of Biostatistics (with SPSS / Minitab) (2019)
- Foundations of probability (2019)
- Statistics & Probabilities and its application in management (II) (2019)
- Statistics & Probabilities and its application in management (I) (2018)
- Statistical analysis (For Masters students of management) (2018)
- Continuous multivariate methods II (2016)
- Continuous multivariate methods I (2016)
- Biostatistics (2016)
- Nonparametric methods (2016)
- Statistics and Probabilities (2015)
- Probability I (2014)
- Engineering Statistics and Probabilities (2014)
- Workshop of SPSS (2014–Present)
- Workshop of R (2014)

Thesis Advisor for Master Students

2016–2017 **Estimation for the Three-Parameter Lognormal Distribution Based on Progressively Censored Data, University of Mohaghegh Ardabili, Ardabil, Iran.**
Solmaz Hemmati Khanegah

2016–2017 **Estimation of $R = P(Y < X)$ for Three Parameter Generalized Rayleigh Distribution, University of Mohaghegh Ardabili, Ardabil, Iran.**
Roghayye maleki Aghabagher

Research projects

2017–2018 **University of Mohaghegh Ardabili, Ardabil, Iran.**
Bayesian Inference on Difference of Air Pollution in the West and East of Tehran

2017–2018 **Academic Center Education Culture and Research, Ardabil, Iran.**
Investigation of costumers satisfaction from Ardabil Gas Company (2017)

2016–2017 **Academic Center Education Culture and Research, Ardabil, Iran.**
Investigation of costumers satisfaction from Ardabil Electrical Distribution Company (2016)

2015–2016 **Academic Center Education Culture and Research, Ardabil, Iran.**
Investigation of costumers satisfaction from Ardabil Gas Company (2015)

Part-Time Job

2013–Present **Statistics Analyst, Iran.**

- Work as statistics analyst individually in the researching programs includes following fields:
Medicine/Physiology/Economics/Management/Statistics/Geography/Psychology
- Analysing and solving the statistical problems of non-statistician MA/PhD students

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Sport

2004–2017 **Certifications**, *I.R.Iran Amateur Swimming Federation/I.R.Iran Life Saving and Diving Federation*.

- Swimming Coach Grade 3 (2017)
- Waterpolo Coach Grade 3 (2017)
- Swimming Referee Grade 3 (2017)
- Life Guard Grade 2 (2004)

2011–2015 **Honors**, *Swimming Championships of Iranian Universities (regional Phase)*, Tehran/Tabriz, Iran.

- 2th place, 4 × 100m Medley Relay (Tabriz, 2015)
- 2th place, 4 × 100m Freestyle (Tabriz, 2015)
- 3th place, 4 × 50m Freestyle (Tehran, 2011)

Social Activities

2001–2005 **Certifications**, *I.R.Iran Red Crescent Society*, Iran.

- Rescue in Pathway (2005)
- Search and Rescue in Detrition (2003)
- Advance First Aid (2003)
- General (Elementary) First Aid (2001)

2000–2005 **Participation as a Rescuer to Help People in Natural Disasters**, *The I.R.Iran Red Crescent Society*, Iran.

- Participated in Bam earthquake as a rescuer (2003, Bam, Iran)
- Participated in mountain search and rescue team (2004, Damavand/Sabalan Summit)

Interests

- Applied Statistics
- Non-parametric Statistics
- Stochastic Processes
- Biostatistics
- Bayesian Statistics
- Reliability Analysis