
SEBNEM ER

Istanbul University Avcilar Campus,
Business Administration Faculty
Department of Quantitative Methods
Avcilar, Istanbul, Turkey
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1. Education

University	Faculty	Area	Degree	Year of Graduation
Istanbul University	Fac. Of Business Administration	Quantitative Methods	PhD	2009
Istanbul University	Fac. Of Economics	Economics Theory	Master	2004
Istanbul Technical University	Fac. Of Business Administration	Management Engineering	Bachelor	2001

2. Work Experience

Company	City	Department	Title	Period
Dublin City University	Dublin	Computing (ComputeTY)	HTML, Javascript	10-28.01.2011 (3 weeks)
Dublin City University	Dublin	Statistics (Prof.Jane Horgan)	PostDoc Researcher/Tutor	02.2010-02.2011 (1 year)
Istanbul University	Istanbul	Fac.of Business Admin Dep. Quantitative Methods	Teaching & Research Asistant	10.2002 -
Dublin City University	Dublin	Statistics (Prof.Jane Horgan)	Research	02.2008 (3 mo.)
Anadolu Life Insurance Company	Istanbul	R & D	Specialist	02.2002 (8 months)

3. Courses Followed During PostDoc

University	Faculty	Lecture	Lecturer	Year
Dublin City University	Computing	Introduction to Computing (Java)	Mr.Charlie Daly	09.2010-01.2011
Dublin City University	Computing	Algorithms and Complexity	Mr.Charlie Daly	09.2010-01.2011

4. Summer School Teaching

Module	Lecturer	Lab Tutorials	Place	Year
Spatial Statistics & Spatial Econometrics	Prof. Anil K. Bera	Dr. Şebnem Er	Istanbul, Turkey	July, 2012

5. Summer School/Workshop Attended

Module	Lecturer(s)	Place	Year
Spatial Statistics & Spatial Econometrics	Prof. Giuseppe Arbia, Prof. Luc Anselin, Prof. Ingmar Prucha, Prof. Jean Paelinck, Prof. Badi Baltagi	Rome, Italy	May, 2012
MCMC, WinBUGS and Bayesian Model Selection	Prof. Nial Friel and Prof. Ioannis Ntzoufras	Dublin, University College Dublin, Ireland	5-6, December, 2011
Modelling Spatial And Space-Time Data	Peter Guttorp, Johan Lindström, Paul D. Sampson	Dublin ISI	08.2011
Missing Data and Multiple Imputation	Prof. Donald B. Rubin & Elizabeth Zell	Limerick	10.2010
Panel Data Analysis	Prof. Badi Baltagi	Barcelona	07.2008

6. Membership:

- I am a member of the **Irish Statistical Association (ISA)** since May'2010 and **American Statistical Association (ASA)** since November'2011.
- I am on the editorial board of **International Journal of Statistics and Applications** since November 2012.

7. Publications

A) International Academic Activities and Publications

- 1) Şebnem Er. (2012). "Comparison of the Efficiency of the Various Algorithms in Stratified Sampling when the Initial Solutions are Determined with Geometric Method", **International Journal of Statistics and Applications**, 2012, 2(1), pp.1-10.

- 2) Şebnem Er, Bengü Vuran. (2012). "Factors Affecting Stock Returns of Firms Quoted in ISE Market: A Dynamic Panel Data Approach", **International Journal of Business and Social Research**, 2012, 2(1), pp.109-122.
- 3) Şebnem Er. (2012). "Women Indicators of Economic Growth: A Panel Data Approach", **Economic Research Guardian**, 2012, 2(1), pp.27-42.
- 4) Şebnem Er, "Women Indicators of Economic Development: A Panel Data Approach", presented in the **EBES 2011 CONFERENCE – ZAGREB, Croatia**, October 13-15, 2011.
- 5) Şebnem Er, "Computational methods for optimum stratification: A review", **58th World Statistics Congress, ISI 2011 Dublin, Ireland, 21-28 August 2011**, (presented in the "Sampling of Skewed Populations" special topics session)
- 6) GA4Stratification, R Package: A genetic algorithm approach to determine stratum boundaries and sample sizes of each stratum in stratified sampling, <http://cran.r-project.org/web/packages/GA4Stratification/index.html>
- 7) Jane M. Horgan, Şebnem Er, "Algorithms for the Stratification of Skewed Populations", **Applied Statistics 2010 International Conference**, September 19 - 22, 2010, Ribno (Bled), Slovenia.
- 8) Jane M. Horgan, Şebnem Er, "A First Course in Probability with R", **30th Conference on Applied Statistics in Ireland, CASI2010**, 16-18 May 2010, Hotel Ramada, Portrush, Northern Ireland.
- 9) Şebnem Er, Neyran Orhunbilge, "Factors Affecting Stock Returns of Turkish Manufacturing Firms Quoted in Istanbul Stock Exchange (ISE): Fixed Effects Panel Data Approach", **30th Conference on Applied Statistics in Ireland, CASI2010**, 16-18 May 2010, Hotel Ramada, Portrush, Northern Ireland.
- 10) Jane M. Horgan (Keynote Speaker), Şebnem Er, "Simulating Probability with R", **Maltepe University International Conference of Mathematical Sciences**, 5 August 2009, İstanbul, Türkiye.
- 11) Şebnem Er, Jane M.Horgan: "Genetic Algorithms versus Geometric Stratification: Computation Efficiency versus Simplicity", **Seminar at DCU, Dublin-Ireland**, 18 March 2008.
- 12) Timur Keskinurk, Sebnem Er, "A Genetic Algorithm Approach To Determine Stratum Boundaries and Sample Sizes of Each Stratum in Stratified Sampling", **Computational Statistics and Data Analysis**, Vol. 52, Issue 1, 15 September 2007, pp.53-67.
- 13) Ebru Demirci, Sebnem Er, "Oil prices, GDP and Inflation in Turkey: A Vector Autoregression Analysis", **Applied Statistics 2006 International Conference**, 17-20 September 2006, Slovenia.

B) National Academic Activities and Publications

- 1) **Ebru Demirci**, Sebnem Er, "Impact of Raw Oil Prices on Turkish Current Account Deficit" (In Turkish), **8th Turkiye Econometrics & Statistics Conference**, 24-25 May 2007, Inonu University.
- 2) Timur Keskinurk, Sebnem Er, "Solving the Problem Loading Cylindrical Products on a Conveyer with Genetic Algorithm and a Real Life Application (In Turkish)", **Operational Research and Industrial Engineering 27th National Conference**, 2-4 July 2007, Dokuz Eylul University.
- 3) Sebnem Er, Timur Keskinurk, "Determination of Stratum Boundaries and Sample Sizes of Each Stratum in Stratified Sampling by Genetic Algorithm" (In Turkish),

Operational Research and Industrial Engineering 26th National Conference, 2006, Kocaeli University.

- 4) Sebnem Er, Timur Keskindürk, "Determination of Logistic Regression Coefficients with Genetic Algorithm (In Turkish)", **Operational Research and Industrial Engineering 25th National Conference,** 2005, Koc University.

C) Citations to International Academic Activities and Publications

Citations to A.12:

- 1) R Baragona, F Battaglia, (2009) Evolutionary Computing in Statistical Data Analysis, **Foundations of Computational Intelligence,** Vol. 3, pp.348.
- 2) MGM Khan, N Ahmad, S Khan, (2009) Determining the Optimum Stratum Boundaries Using Mathematical Programming, **Journal of Mathematical Modelling and Algorithms,** Springer, pp.2.
- 3) M. Ballin, G.Barcaroli, (2008) Optimal Stratification of Sampling Frames in a Multivariate and Multidomain Sample Design, Contributi Istat, **Istituto Nazionale di Statistica,** Roma, pp.6.
- 4) Horgan, Jane, M., (2010) Choosing the stratification boundaries: The elusive optima, **Journal of the School of Business Administration, Istanbul University,** Vol.39, Iss.2, pp.
- 5) Cem C. Arslantaş, Mine A. Fındıklı, (2010) The board structure of firms listed in ISE-50 index (in Turkish). **Journal of the School of Business Administration,** Istanbul University, Vol.39, Iss.2, pp.258-275.
- 6) Kozak, M., Singh, S. (2007). Application of Evolutionary Algorithms in Multivariate Stratification. **Journal of the Indian Society of Agricultural Statistics,** Vol.61, Iss.3, pp.355-360.