

Curriculum Vitae

Ülkü Gürler

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Education:

- Ph.D - Statistics, 1990
University of Pennsylvania, Philadelphia, USA .
- M.Sc. - Statistics, 1987
University of Pennsylvania, Philadelphia, USA.
- B.Sc.- Applied Statistics, 1979
Middle East Technical University, Ankara.
- High School - TED Ankara College, 1975.

Work Experience

November 2016 – Acting Dean, Faculty of Business Administration
Bilkent University

July '2007 – 2009 Project Advisor, TUBITAK-UEKAE, Gebze

May '2002 – Professor
Industrial Engineering Department, Bilkent University.

April'95 –May'2002 Associate Professor
Industrial Engineering Department, Bilkent University.

Jan. '99 - July'99 Visiting Professor
University of California, Davis.

Sept. '93 - June'94 Visiting Researcher
Institut D'istatistique, Universite Catholique de Louvain, Belgium

Sept. '90 –Jan. 95 Assistant Professo
Industrial Engineering Department, Bilkent University

Sept. '89 - May '90 Postgraduate researcher
Division of Statistics, University of California, Davis, USA.

May'89 - June'89 Instructor
Statistics Department, Wharton School, Philadelphia, USA.

May '88 - June'88 Instructor
Statistics Department, Wharton School, Philadelphia, USA.

Sept. '86 - May'89 Research Assistant
Instructor, Statistics Department, Wharton School, Philadelphia, USA.

Sept.'83 - Sept. '85 Research Assistant
Econometrics Department, Gazi University, Ankara.

Feb. '80 - Sept. '83 Research Assistant
School of Banking and Insurance ,Gazi University, Ankara.

Awards and Funds

- TUBITAK Research Grant, SOBAG-106K013.
- NSF Research Grant : INT 0114738.
- NATO Collaborative Research Grant 1995.
- TUBITAK Research Grant, MİSAG 104.
- FULBRIGHT Ph.D. Award, 1985
- “Outstanding Scholar” award, two terms 1989/1990 University of Pennsylvania.

Publications:

1. Gürler, U.; Yenigun, D.; Caglar, M.; Berk, E., ' On the Modeling of CO2 EUA and CER Prices of EU-ETS for the 2008-2012 Period', *Applied stochastic models in business and industry*, 32,p.375-395. 2016.
2. Gürler, U.; Alp, O.; Buyukkaramikli, N. C.,' Coordinated inventory replenishment and outsourced transportation operations ' *Transportation Research Part E. Logistics and transportation review*, V. 70, p:400-415. 2014
3. Kian, R.; Gürler, U.; Berk, E., ' The dynamic lot-sizing problem with convex economic production costs and setups ' *International Journal of Production Economics*, V. 155, P. 361-379, 2014.
4. Buyukkaramikli, N. C.; Gürler, U.; Alp, O., ' Coordinated Logistics: Joint Replenishment with Capacitated Transportation for a Supply Chain ' *Production and Operations Management*, V. 23, P. 110-126, 2014.
5. Saleh, Y.; Gürler, U.; Berk, E. ' Centralized and decentralized management of groundwater with multiple users ' *European Journal of Operations Research*, V. 21, P. 244-256, 2014
6. Balcıoğlu B., Gürler, U., "On the Use of Phase-Type Distributions for Inventory Management with Supply Disruptions" *Applied Stochastic Models in Business and Industry*, V. 27, P. 660-675, 2011.
7. Gürler, U., Kvam, P. "Adjusted Hazard Rate Estimator Based on a Known Censoring Probability", *Communications in Statistics - Theory and Methods*, V.40, P. 4409-4416, 2011.
8. Gürler, U., Yılmaz A., "Inventory and coordination issues with two substitutable products", *Applied Mathematical Modelling*, 34 , 3, 539-552, 2010.
9. Berk E., Gürler, U., Yıldırım G., "On Pricing of Perishable Assets with Menu Costs", *International Journal of Production Economics*, 121, 678-699, 2009.
10. Gürler, Ü., Şen, A., S. Öztop, "Optimal Bundle Formation and Pricing of Two Products with Limited Stock", *International Journal of Production Economics*, 118, 442-462, 2009.

11. Gürler, Ü., E. Berk and Ü. Akbay, "Bayesian Updating of Demand and Backorder Distributions in a Newsvendor Inventory Problem", *Applications of Mathematics in Engineering and Economics '34-AMEE '08*, Ed. M. D. Todorov, American Institute of Physics 978-0-7354-0598-1, 2008.
12. Pınar Ç., Gürler, Ü., and Berk E., "A Replenishment-Disposal Policy for an Inventory System with Inflows", *European Journal of Operations Research*, 190, 421-442, 2008.
13. Gürler Ü., Özkaya, BY., "Analysis of the (s,S) policy for perishables with random shelflife", *IIE Transactions*, 40, 759-781, 2008.
14. Bulut, Z., Gürler U. and A. Sen. "Bundle pricing of inventories with stochastic demand", *European Journal of Operational Research*, 197, 897-911, 2009.
15. Berk E, Gürler, Ü., "Analysis of the (Q, r) Inventory Model for Perishables with Positive Lead Times and Lost Sales ", *Operations Research*, 56, 1238-1246, 2008.
16. Berk E., Gürler Ü., R. A. Levine, "Bayesian demand updating in lost sales newsvendor problem: a two moment approximation", Joint work with Berk E., and Levine R.A. *European Journal of Operational Research*. *European Journal of Operational Research* 182, 256281, 2007.
17. Özkaya, BY., Gürler Ü., and Berk E "The stochastic joint replenishment problem: A new policy, analysis and insights" *Naval Research Logistics*, Vol. 53, 525-546. 2006.
18. Gürler, Ü., " Hazard Change Point Estimation Encyclopedia of Statistical Sciences, 2/E, S. Kotz et al., eds. John Wiley & Sons, Hoboken. Vol. 5, p. 3085-3088, 2005.
19. Gürler, Ü., Berk, E., " Newsboy Inventory Problem Encyclopedia of Statistical Sciences, 2/E, S. Kotz et al., eds. John Wiley & Sons, Hoboken. Vol. 8, p.5459-5465, 2005.
20. Gijbels I, Gürler, Ü., " Estimation of a change point in a hazard function based on censored data systems", *Lifetime Data Analysis*, 9, 395-411, 2003.
21. Anisimov VV., Gürler, Ü., " An approximate analytical method of analysis of a threshold maintenance policy for a multiphase multicomponent model ", *Cybernetics and system analysis*, 39, 325-337, 2003.
22. Gürler Ü., Özkaya, BY, " A note on : Continuous review perishable inventory systems: models and heuristics", *IIE Transactions*, 35. 321-323, 2003.
23. Gürler Ü., Kaya A., " A maintenance policy for a system with multi-state components: an approximate solution", *Rel. Eng. and Sys. Safety*, 76, 117-127, 2002.
24. Dayanık, S., Gürler Ü., " An Adaptive Bayesian Replacement Policy with Minimal Repair", *Oper. Res*, 50, 552-558, 2002.
25. Tekin, E., Gürler Ü., Berk E., " An age based vs. stock level control policies for a perishable inventory system", *E.J.O.R.*, 134, 81-101, 2000. Joint work with E. Berk ve E. Tekin.
26. Gürler Ü., Pınar MC, Jelassi MM., "On closed-form solutions of a resource allocation problem in parallel funding of R&D projects", *Oper. Res. Lettr.*, 27, 229-234, 2000.
27. Gürler Ü., "Bivariate Density Estimation with randomly Truncated Data", *J. Mult. Analy.*, 74, 88-115, 2000.

28. Gürler Ü., Berk E., Levine, R., “ The newsboy problem with Bayesian updating of the demand distribution and censored observations” , *ISBA 2000 Proceedings*.
29. Prewitt K., Gürler Ü., “Variance of the Bivariate Density Estimator for Left Truncated and Right Censored Data” , *Statist. and Prob. Lettr.* , 45, 351-358, 1999.
30. Gürler Ü., “ Reverse Hazard” , in *Encyclopedia of Statistical Sciences*, UV 3, 643-644. Eds. S. Kotz, Read C.B., and Banks, D.L., 1999, John-Wiley.
31. Gürler Ü., “Two Sample Matching Test” , in *Encyclopedia of Statistical Sciences*, UV 3, 762-764. Eds. S. Kotz, Read C.B., and Banks, D.L., 1999, John-Wiley.
32. Gürler Ü., Gijbels, I., “ Covariance Function of a Bivariate Distribution Function Estimator for Left Truncated and Right Censored Data ”, *Statistica Sinica*, 8, 1219-1232, 1998.
33. Anisimov, VV., Gürler Ü., “ Asymptotic Analysis of a Maintenance Policy for a Multi-stage Multicomponent System”, *Proceedings of the 2nd International Symposium on Semi-Markov Models: Theory and Applications*”, Editors Janssen J. and Linnios N.
34. Gürler Ü., “ On testing independence with right truncated data” *Nonlinear Analysis, Theory, Methods & Applications*, 30, 3201-3206, 1997.
35. Gürler Ü., Parlar M. “ An Inventory Problem with Two Randomly Available Suppliers” *Operations Research*, 45, 904-919, 1997.
36. Gürler Ü., “Bivariate distribution and hazard functions when a component is randomly truncated”, *Journ. Mult Anal.*, 60, 20-47, 1997.
37. Gürler Ü., “Bivariate estimation with right truncated data ”, *J.A.S.A.*, 91, 1152-1165, 1996.
38. Gürler Ü., M.M. Siddiqui, “ On the consistency of a two sample matching test”, *Journ. Nonparam. Statist.*, 7, 69-73, 1996.
39. Gürler Ü., “ Quantitative Methods for the Analysis of AIDS Epidemic ”, *Doğa, Turkish J. Biol.*, 17, 257-284, 1993.
40. Gürler Ü., M.M. Siddiqui, “A Two Sample Matching Test” *Order Statistics and Nonparametrics: Theory and Applications* P.K. Sen and I.A. Salama(Editors), pp 237-243, 1992, Elsevier Science Publishers.
41. Gürler Ü., Wang JL., “On the Hajek Projection of Truncated and Censored Data”, *Sankhya, Series A*, 55, 66-79, 1992. Joint work with J.L. Wang.
42. Gürler Ü., Wang JL, “Nonparametric Estimation of Hazard Functions and Their Derivatives Under Truncation Model”, *Anns. Inst. Stat. Math.*, 45, 249-264, 1993.
43. Gürler Ü., Stute W., and Wang JL “Weak and Strong Quantile Representations for Randomly Truncated Data With Applications”, *Statistics and Probability Letters*, 17, 139-148, 1993.
44. Uzunogullari U., Wang JL., “A Comparison of Adaptive Hazard Rate Estimators for Left Truncated and Right Censored Data” , *Biometrika*, 79, pp 297-310, 1992.

45. Gürler Ü, Wang JL “Kernel Hazard Estimations for Left Truncated Survival Data Via Hajek’s Projection Method”, *Proceedings,1990 Taipei Symposium in Statistics*, pp 555-574. M.T. Chao and P.E. Cheng(edt.) Institute of Statistical Science,Academia Sinica.

Research Interests:

Stochastic modeling, operations research methods under carbon emissions restrictions, joint replenishment policies, inventory management of perishable items, Bayesian estimation methods, water allocation problems, analysis of censored and truncated data.

Funded Research:

- “Karbon Ticareti Mekanizması Altında Üretim-Salınım ve Karbon Tahsis Permilerinin Alım-Satım Surelerinin Eniyilenmesi ve Karbon Piyasası Verilerinin İstatistiksel Analizi”, TUBITAK 110M307, Project Manager, 15/10/2010 - 15/10/2012, 135295 TL.
- ”Bozulabilir ürünler için yönetim kararlarının iyileştirilmesine yönelik tedarik ve dağıtım ağı tasarımı ve analizi”, TUBITAK, SOBAG 106K013. 01.06.2006-01.06.2008. 81616YTL. Coordinator: Emre Berk, Bilkent University, Management Faculty, Researcher: Ülkü Gürler
- “Bayesian Inventory Management Under Censored Demand”, NSF International Collaborative Grant: INT 0114738. August 1, 18160USD. Yürütücü: Richard Levine, UC Davis, Researchers: Emre Berk, Bilkent University, Management Faculty; Ülkü Gürler,Bilkent University, Industrial Engineering Department;
- ” Nonparametric and semiparametric estimation with incomplete data: censoring and truncation”, NATO-Collaborative research grant. Project Coordinator. March 1995-March 1997, 9000 USD Researcher: Prof. Irene Gijbels, Catholic University of Leuven, LLN, Belgium).
- ” Bozulabilir Ürünlerde Envanter Politikalarının Belirlenmesi ve Talep Dağılımının İstatistiksel Kestirimi”, TUBİTAK, MİSAG-104, Project Manager, July 1997- January1999, 822.750.000 TL. Researcher, Emre Berk, Bilkent University, Management Faculty

Graduate Students:

- **Ph.D.**
Saeed Pooermaied (expected to graduate in 2019) Ramez Kian(2015) , Yahya Saleh(expected 2010), Banu Yüksel Özkaya (2005), Güldal Güteryüz (2004).
- **M.Sc.**
Basak Erman (Expected in 2018, Nazli Sonmez (2015), Malek Ebadi (2013), Sibel Sözüer (2012), Könül Bayramoğlu (2009), Ateş Gözek (2006), Nasuh Çağdaş Büyükkaramıklı(2006), Salih Öztop (2005), Ağcagül Yılmaz (2004), Mehmet Tunç (2004), Zümbül Bulut (2004), Deniz Yenigün (2002), Çerağ Pinçe (2002), Gonca Yıldırım (2001), Banu Yüksel (2000), Faker Zouaoui (1997), Chokri Hamdaoui (1997), Muhammed Mehdi Jelassi (1997), Murat Aksu (1997), Alev Kaya (1997), Barış Balcıoğlu (1996), Hakan Demirel (1993).

Courses Taught:

- Forecasting Methods and Applications (undergraduate level)
- Stochastic Processes (undergraduate and graduate levels)
- Probability (undergraduate and graduate levels)
- Statistics (undergraduate and graduate levels)
- Quality Control (undergraduate level)
- Linear Algebra (undergraduate level)
- Statistics, MBA.
- Quality Control, Vestel Co.

Professional Activities:

- Member, Fulbright committees.
- Member, TUBITAK panels
- Member, INFORMS
- Member, Academic Programme Committee, YIRCoBL 11, Yeditepe International Research Conference on Bayesian Learning , June 15 - 17, 2011, Istanbul.
- Member, Local Organizing Committee, 8th World Congress in Probability and Statistics, July 9-14, 2012, Istanbul.
- Chair, Local Arrangements, Member, Program Committee, 1997 - Fifth World Meeting of ISBA - Istanbul
- Member, Organizing Committee, Araştırma Sempozyumu 1992-2004, organized by Turkish Statistical Institute, Turkish statistical Association and Turkish Mathematical Association
- Advisory Board, Statistics Congress 1999-2005.
- Referee for journals such as : Production and Operations Management, Management Science, IIE Transactions, European Journal of Operations Research, Journal of Multivariate Analysis, Journal of American Statistical, International Journal of Production Economics, International Journal of Production Research, Association, Management Science and Operations Management, Statistica Sinica, Journal of Statistical Computing, Journal of Statistical Planning and Inference, Biometrical Journal; Lifetime Data Analysis; Turkish Journal of Operations Research, Annals of Institute of Statistical Mathematics, Communications in Statistics, Hacettepe Journal of Mathematics and Statistics.