

Curriculum Vitae

FEMIN YALCIN, PH.D.

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Contact Information

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Degrees

2013 Ph.D. in Applied Mathematics and Statistics Izmir University of Economics, Turkey

2009 B.Sc. in Mathematics Izmir University of Economics, Turkey

Ph.D. Thesis

Title Distribution theory of runs and run-related statistics in sequences of dependent trials

Supervisors Prof. Dr. Ismihan Bairamov (Izmir University of Economics, Izmir, Turkey)
Prof. Dr. Serkan Eryilmaz (currently at Atilim University, Ankara, Turkey)

Employment

Apr 2015 – Present Assistant Professor
Izmir Katip Celebi University, Turkey
Faculty of Engineering and Architecture, Department of Engineering Sciences

Sep 2013 – Present Part-time Lecturer
Izmir University of Economics, Turkey
Faculty of Arts and Sciences, Department of Mathematics

July 2015 – Oct 2015 Post-doctoral Fellow
University of Toronto, Canada
Dalla Lana School of Public Health, Division of Biostatistics

Mar 2015 – July 2015 Post-doctoral Researcher
University of Piraeus, Greece
School of Finance and Statistics, Department of Statistics and Insurance Science

Feb 2011 – Aug 2013 Research Assistant
Izmir University of Economics, Turkey
Faculty of Arts and Sciences, Department of Mathematics

Sep 2009 – Feb 2011 Research Assistant (Scholar)
Izmir University of Economics, Turkey
Faculty of Arts and Sciences, Department of Mathematics

Research Interests

- Applied probability
- Reliability theory
- Stochastics methods in operations research
- Biostatistics

Honours, Awards, and Grants

- TÜBİTAK – BİDEB 2219 International Postdoctoral Research Scholarship for the project “Runs and Patterns and Their Applications to Biological Sequences” funded by The Scientific and Technological Research Council of Turkey (Under supervision of Prof. Dr. W. Y. Wendy Lou at University of Toronto from July to October 2015)
- Post-doctoral fellowship in the research project “Patterns and Scans Theory in Molecular Biology, Reliability Engineering and Experimental Psychology” funded by the University of Piraeus Research Center (UPRC) and the European Union - European Social Fund (ESF) (Under supervision of Prof. Dr. Markos V. Koutras at University of Piraeus from March to July 2015)
- TÜBİTAK – BİDEB 2211 Domestic PhD Scholarship (2009 – 2013)
- High Honour PhD Graduate of Izmir University of Economics with a GPA of 3.96/4.00
- High Honour Graduate of Izmir University of Economics with a GPA of 3.65/4.00

Professional Service

- Served as a reviewer for Advances and Applications in Statistics, Annals of the Institute of Statistical Mathematics, Applied Stochastic Models in Business and Industry, Communications in Statistics – Theory and Methods, IEEE Transactions on Reliability, Journal of Probability, and Metrika.
- Served as a member of Local Organizing Committee of IWAP 2014 and IWAP 2016.
- Served as a session chair in EMS 2015 and MMR 2015.

Refereed Publications

- (1) Franko, C. and **Yalcin, F.**, “Signatures of series and parallel systems consisting of non-disjoint modules”, *Communications in Statistics – Theory and Methods*, To appear. (SCI)
- (2) Eskiizmir, G., Baskin, Y. **Yalcin, F.**, Ellidokuz, H., and Ferris, R.L., “Risk factors for radiation failure in early-stage glottic carcinoma: A systematic review and meta-analysis”, *Oral Oncology*, 62, 90-100, 2016. (SCI)
- (3) Koutras, V. M., Koutras, M. V., and **Yalcin, F.**, “A simple compound scan statistic useful for modeling insurance and risk management problems”, *Insurance Mathematics and Economics*, 69, 202-209, 2016. (SCI)
- (4) Akbulut, E., Erdemir, A, Ozgen, M., Baskin, Y., **Yalcin, F.**, and Turgut Balik, D., “Genotyping and analysis of rs27037 polymorphism for ankylosing spondylitis”, *Sigma Journal of Engineering and Natural Sciences*, 6(1), 117-125, 2015.
- (5) **Yalcin, F.** and Eryilmaz, S., “ q -geometric and q -binomial distributions of order k ”, *Journal of Computational and Applied Mathematics*, 271(1), 31-38, 2014. (SCI)

- (6) **Yalcin, F.**, "On a generalization of Ling's binomial distribution", *ISTATISTIK: Journal of the Turkish Statistical Association*, 6(3), 110-115, 2013.
- (7) **Yalcin, F.** and Eryilmaz, S., "Start-up demonstration test based on total successes and total failures with dependent start-ups", *IEEE Transactions on Reliability*, 61(1), 227-230, 2012. (SCI)
- (8) Eryilmaz, S. and **Yalcin, F.**, "On the mean and extreme distances between failures in Markovian binary sequences", *Journal of Computational and Applied Mathematics*, 236(6), 1502-1510, 2011. (SCI)
- (9) Eryilmaz, S. and **Yalcin, F.**, "Distribution of run statistics in partially exchangeable processes", *Metrika*, 73(3), 293-304, 2011. (SCI)
- (10) **Yalcin, F.** and Franko, C., "A new component importance measure based on Barlow and Prochan importance", Submitted for publication.

Talks and Presentations

- (1) *Invited Talk* - **Yalcin, F.**, "Some q -discrete distributions of order k with applications", *8th International Workshop on Applied Probability (IWAP 2016)*, Sheraton Centre Toronto Hotel, Toronto, Canada, June 2016.
- (2) *Invited Talk* - **Yalcin, F.**, "Runs and Run-related Statistics with Applications", *Biostatistics Seminars of Dalla Lana School of Public Health*, University of Toronto, Toronto, Canada, September 2015.
- (3) **Yalcin, F.**, "Some q -discrete distributions of order k ", *30th European Meeting of Statisticians (EMS 2015)*, VU University Amsterdam, Amsterdam, the Netherlands, July 2015.
- (4) *Invited Talk* - **Yalcin, F.**, Koutras, V. M., and Koutras, M. V., "A compound scan statistic distribution with applications in risk management", *16th Conference of the Applied Stochastic Models and Data Analysis International Society (ASMDA 2015)*, University of Piraeus, Piraeus, Greece, July 2015.
- (5) Franko, C. and **Yalcin, F.**, "Signatures of series and parallel systems consisting of non-disjoint modules", *9th International Conference on Mathematical Methods in Reliability (MMR 2015)*, Tokyo Campus of University of Tsukuba, Tokyo, Japan, June 2015.
- (6) *Invited Talk* - **Yalcin, F.** and Eryilmaz, S., " q -discrete distributions of order k ", *7th International Workshop on Applied Probability (IWAP 2014)*, Lara Kervansaray Hotel & Convention Center, Antalya, Turkey, June 2014.
- (7) *Invited Talk* - **Yalcin, F.**, "Probabilistic and statistical analysis of start-up demonstration tests", *Seminars of Faculty of Engineering and Architecture*, Izmir Katip Celebi University, Izmir, Turkey, May 2014.
- (8) **Yalcin, F.**, " q -distributions of order k with applications to reliability", *26th European Conference on Operational Research (EURO MMXIII)*, Sapienza University of Rome, Rome, Italy, July 2013.
- (9) **Yalcin, F.** and Eryilmaz, S., "Start-up demonstration tests under dependence", *28th European Meeting of Statisticians (EMS 2010)*, University of Piraeus, Piraeus, Greece, August 2010.

(10) Franko, C., Ozkut, M., and Yalcin, F., "Different applications of bed capacity planning problem", *YA/EM'08 Student Project Competition*, Galatasaray University, Istanbul, Turkey, July 2008.

(11) Yalcin, F., "Start-up demonstration tests", *Workshop on Statistical Methods in Reliability and Quality*, Izmir University of Economics, Izmir, Turkey, June 2008. (Poster Presentation)

Projects

- (1) Work package coordinator in "Akciğer kanserli hastaların bireye özgü moleküler tanı ve izleminde likit ve volatil biyopsinin kullanımı", TÜBİTAK 1003, Proposed.
- (2) Researcher in "Ankilozan spondilit tanısında karşılaşılan sorunların giderilmesinde genetik varyasyonların tanı amaçlı biyobelirteç olma potansiyellerinin araştırılması", TÜBİTAK 1003, Proposed.
- (3) Researcher in "Dolaşımdaki kanserli hücrelerin (CTCs) mekanik sertlik (cell stiffness) yapısındaki değişimini kantitatif faz görüntüleme yöntemi kullanarak ölçen holografik tek hücre görüntüleme tekniği", TÜBİTAK 1003, Proposed.

Citations

Sum of times cited without self-citations: 22
H-index: 4

Skills

Language: Turkish: Mother tongue
English: Advanced – ÜDS: 92.5/100 (2009), IELTS: 7.5/9.0 (2013), YDS: 85/100 (2014)
German: Pre-intermediate

Computer: C, LaTeX, LINDO, LINGO, Maple, MATLAB, MedCalc, Minitab, MS Office, PTC Mathcad, R, SAS, Scientific Word, SPSS, Stata, Wolfram Mathematica

Certificates

- "Statement of Accomplishment with distinction" obtained from "Statistics in Medicine" course offered by Stanford University (Attended June-September 2014 and completed with a grade of 94%).
- "Certificate of Pedagogical Formation" obtained from Dokuz Eylul University Buca Faculty of Education in August 2014.

Teaching Experience

- *Izmir Katip Celebi University*

2016 – 2017	OPR 201	Probability and Statistics for Engineers (No. of students: 97)
(Fall)	NAS 522	Stochastic Processes (Graduate) (No. of students: 5)
	NAS 523	Applied Statistical Analysis (Graduate) (No. of students: 3)

	SMY 508	Stokastik Süreçler (Graduate) (No. of students: 4)
	SMY 509	Uygulamalı İstatistiksel Analiz (Graduate) (No. of students: 3)
	SU 111	Matematik I (No. of students: 11)
2015 – 2016 (Summer)	MAT 101	Calculus I (No. of students: 178)
	OPR 201	Probability and Statistics for Engineers (No. of students: 23)
2015 – 2016 (Spring)	MAT 206	Complex Analysis (No. of students: 6)
	MSE 222	Statistical Methods for Engineering (No. of students: 25)
	OPR 201	Probability and Statistics for Engineers (No. of students: 88)
2015 – 2016 (Fall)	MAT 201	Linear Algebra and Differential Equations (No. of students: 39)
	OPR 201	Probability and Statistics for Engineers (No. of students: 74)

- *Izmir University of Economics*

2016 – 2017 (Fall)	MATH 211	Introduction to Probability and Statistics I (No. of students: 21)
	MATH 221	Business Statistics I (No. of students: 1)
2015 – 2016 (Spring)	MATH 108	Mathematics for Architecture (No. of students: 80)
2015 – 2016 (Fall)	MATH 280	Introduction to Probability and Statistics (No. of students: 99)
2014 – 2015 (Fall)	MATH 280	Introduction to Probability and Statistics (No. of students: 88)
	MBP 211	Basics of Networking (No. of students: 8)
	VSP 211	Statistics for Business (No. of students: 3)
2013 – 2014 (Spring)	MATH 212	Introduction to Probability and Statistics II (No. of students: 128)
2013 – 2014 (Fall)	MATH 153	Calculus I (No. of students: 45)
	MATH 211	Introduction to Probability and Statistics I (No. of students: 99)

Academic References

Research:

Prof. Dr. Serkan Eryilmaz – *PhD Supervisor*
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Prof. Dr. W. Y. Wendy Lou – *Postdoc Supervisor*
University of Toronto, Canada
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Izmir University of Economics, Turkey
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Teaching:

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