

Employment

Research Fellow

Strathclyde Institute Of Pharmacy And Biomedical Sciences
University Of Strathclyde
United Kingdom
23 Oct 2024 → present

Previous Employment

2019-Nov 5/2024-Oct 21 Unit of Macro Analysis and Coordination Republic of Türkiye Ministry of Treasury and Finance, Ankara Estimation of annually and monthly income (regression) Monthly Credit Card Expenditure Analysis Industrial production index report (monthly) GDP report (quarterly)

2014-Dec 1 /2019- Oct 24 Research Assistant Faculty of Medicine Department of Basic Medical Sciences - Department of Biostatistics

Hitit University, Çorum

Giving consultation for research and studies, calculating necessary sample size to achieve a pre-specified power, Helping faculty, resides and medical students design experiments, conducting statistical analyses and helping with statistical portion of manuscript preparation, Mentorship of students, residents and faculty in study design and good research practices. Participation in special projects as assigned.

Education

2017-02 - 2022-02 Ph.D.: Department of Biostatistics
Ankara University - Faculty of Medicine Graduate School of Health Sciences

2014-02 - 2017-02 Master of Science: Department of Biostatistics
Ankara University - Faculty of Medicine Graduate School of Health Sciences

2010-09 - 2013-06 Bachelor of Science: Department of Statistics
Hacettepe University – Faculty of Science

Certifications

2023-10 •Custom Models, Layers, and Loss Functions with TensorFlow- Coursera

2023-09 •Machine Learning with Python (IBM) - Coursera

2023-08•Big Data Course - ICTA Information and Communication Technologies Authority

2018-10• Short Course on Monte Carlo Simulation Techniques - 20th National Biostatistics Congress and 3rd International Biostatistics Congress, Gaziantep, Türkiye, 25-29 Oct 2018 (Lecturer: Ertuğrul Çolak)

2018-06• Summer School on Modern Methods in Biostatistics and Epidemiology - Treviso, Italy, 11-16 June 2018.

(Course 1: Joint Modelling of Longitudinal and Survival Data, Lecturer: M.Crowther; Course 2: Longitudinal Data Analysis, Lecturer: G. Fitzmaurice)

2017-05• Short Course on An Introduction to Joint Models for Longitudinal and Survival Data, with Applications in R - 9th EMR and Italian Region of IBS Conference, Thessaloniki, Greece, 8-12 May 2017 (Lecturer: Dimitris Rizopoulos)

2016-07• Short Course on Survival Analysis- Sofia University, Bulgaria, Sofia, 18-20 July 2016 (lecturers: Laura Antolini and Davide Bernasconi)

Research Projects

1. Implementing Gender-Responsive Planning and Budgeting in Türkiye- Representative Member

Implementing partner: United Nations Entity for Gender Equality and the Empowerment of Women (UN Women).

Duration (months) + start and end dates: 36 months -December 2020

EU contribution (Euro): 3.000.000

2. Baş Y, Aker F, Gönültaş A, Turgal E, Akdeniz R, Çıkrıkçıoğlu M (2018-2020). Is there a Relationship between

Esophageal Squamous Cell Carcinoma and High-Risk HPV Types? Is Expression of P53 and P16 Proteins Significant? A Dual Center Study on Turkish and Somali Cases – Researcher.

Teaching experience

Biostatistics - Department of Nutrition and Dietetic (2022- Fall) Medipol University (M.Sc, Bachelor's)

Thesis and Dissertation

- M.A. Thesis: Joint Modeling of Survival and Longitudinal Non-Survival Data with an Application to Medical Data (2017 - Ankara)
- Ph.D. Dissertation: Assessment of the Performance of Classic Standard Machine Learning Models and Mixed Effect Machine Learning Models via Simulation Study (2022 - Ankara)

Seminars

1. "Joint Modeling of Survival and Longitudinal Non-Survival Data with an Application to Medical Data" Ankara University, 2016.
2. "A Two-step Approach for Modeling Longitudinal and Survival Data", Ankara University, 2019.

Articles published in international peer-reviewed journals

1. Sanlier N, Batu Z, Turgal E (2023). Determination of Nutritional Status Using Various Screening Tools in Elderly. *Int J Pharm Phytopharmacol Res*, 13(6): 8-18.
2. Turgal E, Erdogan, BD, Arslan F (2023). Joint modeling of survival and longitudinal data: Carrico index data example. *Experimental Biomedical Research*, 6(1), 24-37.
3. Burhan HŞ, Şafak Y, Karadere ME, Turgal E, Özdel K, Türkçapar MH (2022). Factors Predicting the Effectiveness of Cognitive-Behavioral Group Therapy in the Treatment of Obsessive-Compulsive Disorder. *Journal of Rational-Emotive & Cognitive-Behavior Therapy*, 1-13.
4. Gokcinar NB, Buturak SV, Ozkal F, Ozcice G, Yumusak ME, Turgal E (2020). Optical coherence tomography neurodegenerative findings in patients with bipolar disorder. *Asia-Pacific Psychiatry*, 12(4), e12394.
5. Gökçe İ, Can S, Demi Rkan E, Küçükler FK, Turgal E (2020). Declared and real physical activity in obese individuals as assessed by the questionnaire and acceleromenter. *J Sports Med Phys Fitness*. 60(12):1576-1582. doi: 10.23736/S0022-4707.20.11220-9.
6. Karadere ME, Yazla E, Burhan HŞ, Turgal E, Kuru T, Türkçapar MH (2020). The Efficacy of Cognitive Behavioral Group Therapy in Women with Obesity Antidepressant Treatment. *Anatolian Journal of Psychiatry*, 21(3), 269-276.
7. Say B, Ergün U, Yıldız A, Alpua M, Durmaz ŞA, Turgal E (2020). Detecting Pain Severity with Full Cup Test in Painful Diabetic Peripheral Neuropathy. *The Journal of the Turkish Society of Algology*, 32(2), 85-90.
8. Say B, Ergün U, Turgal E, Yardımcı İ (2019). Cold Effect in Median Nerve Conductions in Clinical Carpal Tunnel Syndrome with Normal Nerve Conduction Studies. *Journal of Clinical Neuroscience*, 61, 102-105.
9. Baş Y, Aker FV, Gönültaş A, Akdeniz R, Turgal E, Çıkrıkçıoğlu MA (2019). Effect of High-Risk Human Papillomavirus in Esophageal Squamous Cell Carcinoma in Somalian and Turkish Cases. *Pathogens and Disease*, 77(5), 10.1093/femspd/ftz047.
10. Güney G, Arslan E, Baş Y, Turgal E (2019). Two-Year Results of Community-Based Screening Program for Human Papilloma Virus DNA in Çorum Province. *Turkish Journal of Pathology*, 35(2), 102-106.
11. Fidan N, Yetis EUM, Murat M, Yucesoy C, Turgal E, Metin M (2019). Is The Presence of Echo-Rich Periportal Cuffing in the Liver Indicator for Abdominal Inflammation in Pediatric Patients? *Medical Ultrasonography*, 21(3), 225-231.
12. Türk AC, Özkurt S, Turgal E, Şahin F (2018). The Association between the Prevalence of Restless Leg Syndrome, Fatigue, and Sleep Quality in Patients Undergoing Hemodialysis. *Saudi Medical Journal*, 39(8), 792.
13. Seyer A, Karasartova D, Ruh E, Güreşer AS, Turgal E, İmir T, Taylan Özkan HA (2017). Epidemiology and Prevalence of Blastocystis spp. in North Cyprus. *The American Journal of Tropical Medicine and Hygiene*, 96(5), 1164-1170, doi: 10.4269/ajtmh.16-0706
14. Güreşer AS, Yapar D, Taşçı L, Boyacıoğlu Zİ, Turgal E, Baykam N, Taylan Özkan HA (2017). Investigation of Toxoplasmosis in patients prediagnosed as lymphadenopathy in Hitit University Corum Training and Research Hospital. *Turkish Bulletin of Hygiene and Experimental Biology*, 74(3), 237-242, doi: 10.5505/TurkHijyen.2017.37431
15. Baş Y, Erenler BH, Güney G, Turgal E, KH Hande, Şahin Ş, Tunus İ (2017). Distribution of Cancer Cases between January 01, 2014 and December 30, 2016 in Çorum City, Türkiye. *Turkish Journal of Oncology*, 32(4), 153-159, doi: 10.5505/tjo.2017.1641
16. Soydal Ç, Köksöy EB, Yaşar HA, Turgal E, Doğanay Erdoğan B, Akbulut H, Küçük NÖ (2016). Prognostic Importance of Bone Marrow Uptake on Baseline 18F FDG Positron Emission Tomography in Diffuse Large B Cell Lymphoma. *Cancer Biotherapy and Radiopharmaceuticals*, 31(10), 361-365, doi: 10.1089/cbr.2016.2132.

Papers presented at international scientific meetings and published in the proceedings book

1. Turgal E, Erdoğan Doğanay B (2021). Evaluation of Traditional Machine Learning and Mixed Effect Machine Learning Model Performances by Simulation Study. 22nd National Biostatistics Congress and 5th International Biostatistics Congress, online.
2. Turgal E, Erdoğan Doğanay B (2018). A Two-step Approach for Modeling Longitudinal and Survival Data, 20th National Biostatistics Congress and 3rd International Biostatistics Congress, Gaziantep, Türkiye.
3. Turgal E, Erdoğan Doğanay B (2018). The Use of Boosted Multivariate Trees in Medical Decision-Making for Repeated Measurements. XXIXth International Biometric Conference, Barcelona, Spain.

4. Çağlıyan Türk A, Özkurt S, Turgal E, Şahin F (2018). The Association between the Incidence of Restless Leg Syndrome, Fatigue, and Sleep Quality in Patients Undergoing Hemodialysis. With International Attendance Turkish Rheumatology Congress, Antalya, Türkiye.
5. Turgal E, Erdoğan Doğanay B, Köse SK (2017). Performance assessment of joint modelling of time-to-event and non-survival data: a simulation study, 19th National Biostatistics Congress and 2nd International Biostatistics Congress, Antalya, Türkiye.
6. Turgal E, Erdoğan Doğanay B (2017). Joint Modeling of Longitudinal Measurements and Survival Time Data-A Simulation Study of Endogenous Time Dependent Covariates in JM versus in Extended Cox Model. The 9th EMR-IBS and Italian Region Conference, Thessaloniki, Greece.
7. Turgal E, Erdoğan Doğanay B (2017). Include or Exclude a Constant Term in Regression Analysis. 3rd International Researchers, Statisticians and Young Statisticians Congress (3. IRSYSC - 2017), Konya, Türkiye.
8. Turgal E, Erdoğan Doğanay B (2016). Joint Modeling of Survival and Longitudinal Non-Survival Data with Applications in R. International Conference on Information Complexity and Statistical Modeling in High Dimensions with Applications (IC-SMHD-2016), Nevşehir, Türkiye.
9. Özdemir F, Lek Z, Gölpınar M, Şahin B, Turgal E (2016). Comparison of Satisfaction Levels for Anatomy in Different Universities Department of Nursing Students. 17th National Anatomy Congress with International Participation, Eskişehir, Türkiye.
10. Özdemir F, Turgal E, Gölpınar M (2017). Evaluation of satisfaction levels for anatomy education in secondary school students. 18th National Anatomy Congress, Bolu, Türkiye.
11. Özdemir F, Turgal E, Gölpınar M (2017). The most frequently used statistically methods in anatomy. 18th National Anatomy Congress, Bolu, Türkiye.
12. Turgal E, Erdoğan Doğanay B (2016). Joint Modeling of Survival and Longitudinal Non-Survival Data with an Application to Medical Data. 18th National Biostatistics Congress and 1st International Biostatistics Congress, Antalya, Türkiye.
13. Altın İ, Turgal E, Özdemir F (2016). Comparing Nursing Students' Perceptions of Domestic Violence by Individual Characteristics: The Case of Çorum. International 2.Forensic Nursing 1.Forensic Social Service Congress, Kırıkkale, Türkiye.
14. Turgal E, Erdoğan Doğanay B (2016). Gamma Frailty Model versus Cox Regression Model with an Application to Medical Data. 2nd International Researchers, Statisticians and Young Statisticians Congress (2. IRSYSC -2016), Ankara, Türkiye.
15. Turgal E, Yavuz Z, Dağlı İ, Köse SK, Erdoğan Doğanay B (2015). Non-Linear Regression Analysis. 8th Conference of Eastern Mediterranean Region International Biometric Society, Nevşehir, Türkiye, 152.

Papers presented at national scientific meetings and published in the proceedings book

1. Baş Y, Erenler BH, Güney G, Turgal E, Keser HH, Şahin Ş (2017). A Study on the Distribution of Cancer Cases in Çorum City. 27th National Pathology Congress, Antalya, Türkiye.
2. Özdemir F, Turgal E, Gölpınar M (2017). The Most Frequently Used Statistically Methods in Anatomy. 18th National Anatomy Congress, Bolu, Türkiye.
3. Özdemir F, Turgal E, Gölpınar M (2017). Evaluation of Satisfaction Levels for Anatomy Education in Secondary School Students. 18th National Anatomy Congress, Bolu, Türkiye.
4. Soydal Ç, Köksoy EB, Yaşar A, Turgal E, Erdoğan Doğanay B, Akbulut H, Küçük NÖ (2016). Prognostic Importance of Bone Marrow Uptake on Baseline 18F FDG Positron Emission Tomography Computed Tomography in Diffuse Large B Cell Lymphoma. The Annual Congress of the European Association of Nuclear Medicine, Barcelona, Spain.
5. Demir E, Turgal E, Köse SK, Dündar E, Cengiz MA, Şenel E (2015). Comparison of Classical, Fuzzy Data Envelopment Analysis and Stochastic Boundary Analysis Methods in Efficiency Measurement of Health Services. 17th Biostatistics Congress, Turkish Republic of Northern Cyprus.
6. Turgal E, Yavuz Z, Demir E, Köse SK, Erdoğan Doğanay B (2015). Classification of Microarray Data by Decision and Regression Tree Methods. 17th Biostatistics Congress, Turkish Republic of Northern Cyprus.
7. Yavuz, Z, Turgal E, Dağlı İ, Erdoğan Doğanay B, Köse SK, Yavuz Y (2014). Survival Analysis in the Presence of Competing Risks. 16th Biostatistics Congress, Antalya, Türkiye.

Administrative Duties/Corporate and Professional Services

Hitit University Faculty of Medicine Ethics Committee Secretariat (2015-2019)

Memberships to Scientific and Professional Organizations

Member of Turkish Association of Biostatistics

Member of International Biometric Society

Editorial and Refereeing Duties

Referee (article) for European Journal of Managerial Research (EUJMR) (2023).

Referee (article) for CUREUS Journal of Medical Science (2023).

Referee (article) for Hindawi - Open Access Journals (2023).

Honors and Awards

· Best Research Paper Award, 2019.

Güney G, Arslan E, Baş Y, Turgal E (2019). Two-Year Results of Community-Based Screening Program for Human Papilloma Virus DNA in Çorum Province. Turkish Journal of Pathology, 35(2), 102-106.

· 2012-2013 Fall Term Certificate of Honor - Hacettepe University

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