

Assoc. Prof. Gül İnan

Personal Information

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International Researcher IDs

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Education Information

Post Doctorate, University of North Carolina at Chapel Hill, Gillings School Of Global Public Health, Department Of Biostatistics, United States Of America 2016 - 2016

Post Doctorate, University of Minnesota-Twin Cities, College Of Liberal Arts, School Of Statistics, United States Of America 2015 - 2016

Doctorate, Middle East Technical University, Faculty Of Arts And Sciences, İstatistik, Turkey 2009 - 2014

Postgraduate, Middle East Technical University, Faculty Of Arts And Sciences, İstatistik, Turkey 2006 - 2009

Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, İstatistik, Turkey 2001 - 2006

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Social Sciences and Humanities, Computer Sciences, Statistics, Natural Sciences

Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Fen-Edebiyat, Matematik Mühendisliği, 2024 - Continues

Assistant Professor, Istanbul Technical University, Matematik Muhendisligi Bolumu, 2018 - 2024

Research Assistant, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Statistics, 2006 - 2013

Academic and Administrative Experience

Deputy Head of Department, Istanbul Technical University, Fen-Edebiyat, Matematik Mühendisliği, 2018 - 2020

Courses

Statistics, Undergraduate, 2020 - 2021

Probability Theory, Undergraduate, 2021 - 2022

Introduction to Data Science, Undergraduate, 2020 - 2021

Calculus I, Undergraduate, 2019 - 2020

Advising Theses

İnan G., DEEP FEATURE TRANSFER FROM DEEP LEARNING MODELS INTO MACHINE LEARNING ALGORITHMS TO CLASSIFY COVID-19 FROM CHEST X-RAY IMAGES, Postgraduate, O.Güldali(Student), 2021

Jury Memberships

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, May, 2020

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, December, 2019

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, December, 2019

Doctorate, Doctorate, İstanbul Teknik Üniversitesi, June, 2019

Designed Lessons

İnan G., Introduction to Data Science, Undergraduate, 2020 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Joint modeling the frequency and duration of accelerometer-measured physical activity from a lifestyle intervention trial**
Siddique J., Daniels M. J., İnan G., Battalio S., Spring B., Hedeker D.
Statistics in Medicine, vol.42, no.28, pp.5100-5112, 2023 (SCI-Expanded)
- II. **Bayesian joint modeling of patient-reported longitudinal data on frequency and duration of migraine**
İnan G.
Haceteppe Journal of Mathematics and Statistics, vol.52, no.3, pp.795-807, 2023 (SCI-Expanded)
- III. **Revisiting Historical Bar Graphics on Epidemics in the Era of R ggplot2**
Aldag S., Topcuoglu D., İnan G.
R JOURNAL, vol.14, no.1, pp.146-166, 2022 (SCI-Expanded)
- IV. **A marginalized multilevel model for bivariate longitudinal binary data**
İNAN G., İLK Ö.
STATISTICAL PAPERS, vol.60, no.3, pp.251-278, 2019 (SCI-Expanded)
- V. **A PRESS statistic for working correlation structure selection in generalized estimating equations**
İnan G., Latif M. A. H. M., Preisser J.
JOURNAL OF APPLIED STATISTICS, vol.46, no.4, pp.621-637, 2019 (SCI-Expanded)
- VI. **A population-averaged approach to diagnostic test meta-analysis**
Preisser J. S., İnan G., Powers J. M., Chu H.
BIOMETRICAL JOURNAL, vol.61, no.1, pp.126-137, 2019 (SCI-Expanded)
- VII. **One-inflation and unobserved heterogeneity in population size estimation by Ryan T. Godwin**
İnan G.
BIOMETRICAL JOURNAL, vol.60, no.4, pp.859-864, 2018 (SCI-Expanded)
- VIII. **A Score Test for Testing a Marginalized Zero-Inflated Poisson Regression Model Against a Marginalized Zero-Inflated Negative Binomial Regression Model**
İnan G., Preisser J., Das K.
JOURNAL OF AGRICULTURAL BIOLOGICAL AND ENVIRONMENTAL STATISTICS, vol.23, no.1, pp.113-128, 2018 (SCI-Expanded)

- IX. **Comments on "Longitudinal beta-binomial modeling using GEE for overdispersed binomial data"**
Inan G.
STATISTICS IN MEDICINE, vol.37, no.3, pp.503-505, 2018 (SCI-Expanded)
- X. **Comments on "Marginalized multilevel hurdle and zero-inflated models for overdispersed and correlated count data with excess zeros"**
Inan G.
STATISTICS IN MEDICINE, vol.37, no.2, pp.324-326, 2018 (SCI-Expanded)
- XI. **PGEE: An R Package for Analysis of Longitudinal Data with High-Dimensional Covariates**
Inan G., Wang L.
R JOURNAL, vol.9, no.1, pp.393-402, 2017 (SCI-Expanded)
- XII. **Joint GEEs for multivariate correlated data with incomplete binary outcomes**
Inan G., YÜCEL R.
JOURNAL OF APPLIED STATISTICS, vol.44, no.11, pp.1920-1937, 2017 (SCI-Expanded)
- XIII. **Comments on "Assessing correlation of clustered mixed outcomes from a multivariate generalized linear mixed model"**
Inan G.
STATISTICS IN MEDICINE, vol.34, no.22, pp.3075-3078, 2015 (SCI-Expanded)
- XIV. **Kim, Y., Choi, Y.-K., and Emery, S. (2013), "Logistic Regression With Multiple Random Effects: A Simulation Study of Estimation Methods and Statistical Packages," The American Statistician, 67, 171-182.**
Inan G., İlk O., de Leon A. R.
AMERICAN STATISTICIAN, vol.68, no.2, pp.129-130, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **A marginalized multilevel random effects model for longitudinal semi-continuous data**
İNAN G.
İstatistikçiler Dergisi: İstatistik ve Aktüerya, 2018 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Revisiting Historical Bar Graphics on Epidemics in the Era of R Ggplot2**
Aldağ S., Topçuoğlu D., İNAN G.
Joint Statistical Meetings 2021, United States Of America, 8 - 12 August 2021
- II. **A Simulation Study on a Novel Marginalized Model with Probit Link for Bivariate Longitudinal Binary Data**
İNAN G., İLK DAĞ Ö.
XXIst National & IVth International Biostatistics Congress, Antalya, Turkey, 25 - 29 October 2019
- III. **Joint Modeling the Frequency and Duration of Physical Activity from a Lifestyle Intervention Trial**
İNAN G., Siddique J.
Young Business and Industrial Statisticians Workshop on Recent Advances in Data Science and Business Analytics, İstanbul, Turkey, 25 - 28 September 2019
- IV. **A Bayesian Joint Model for Longitudinal Frequency and Duration Outcomes in a Migraine Study**
İNAN G.
Joint Statistical Meetings 2019, Denver, Colorado, United States Of America, 27 July - 01 August 2019
- V. **A Marginalized Random Effects Model with Probit Link Function for Bivariate Longitudinal Binary Data**
İNAN G., İLK DAĞ Ö.
XXIX International Biometric Conference, Barcelona, Spain, 8 - 13 July 2018

- VI. **Analysis of Longitudinal Semi-Continuous Data: A Marginalized Multilevel Model Approach**
İNAN G., Preisser J.
XXIX International Biometric Conference, Barcelona, Spain, 8 - 13 July 2018
- VII. **A Score Test for Over-Dispersion in Marginalized Zero-Inflated Poisson Regression Models**
İNAN G., Preisser J., Das K.
Joint Statistical Meetings 2017, Baltimore, United States Of America, 29 July - 03 August 2017
- VIII. **A Criterion for Selection of Working Correlation Structure in Generalized Estimating Equations**
İNAN G., Latif M., Preisser J.
38th Annual Conference of the International Society for Clinical Biostatistics, Vigo, Spain, 9 - 13 July 2017
- IX. **Joint GEEs for Multivariate Correlated Data with Incomplete Binary Outcomes**
İNAN G., Yucel R.
11th International Conference on Health Policy Statistics, Providence, Rhode Island, United States Of America, 7 - 09 October 2015
- X. **Dempster-Schafer Method in Family Based Association Studies**
RAJABLI F., GÖKTAŞ Ü., İNAN G.
ICECCO'12: 9th International Conference on Electronics, Computer and Computation, Ankara, Turkey, 1 - 03 November 2012, pp.13-14
- XI. **A Likelihood-based Multilevel Model for Longitudinal Bivariate Binary Data**
İNAN G., İLK DAĞ Ö., Daniels M.
8th World Congress in Probability and Statistics, İstanbul, Turkey, 9 - 14 July 2012
- XII. **Uzunlamasına Kesikli Veri Analiz Yöntemlerinin Akne Vulgaris Verisine Uygulanması**
İNAN G., İLK DAĞ Ö., KOÇ E.
XIII. Ulusal Biyoistatistik Kongresi, Ankara, Turkey, 12 - 14 September 2011
- XIII. **Implementation of Regression Models for Longitudinal Count Data through SAS**
İNAN G., İLK DAĞ Ö.
19th International Conference on Computational Statistics, Paris, France, 22 - 27 August 2010

Supported Projects

İnan G., Deniz H., Corum K., Yıldız S., Köroğlu Ç., TÜBİTAK Project, İstanbul Üniversitesi Tarihe Bakış Projesini Veri Bilimi ile Okumak, 2021 - 2022

İnan G., Project Supported by Higher Education Institutions, Uzunlamasına toplanmış migren sıklığı ve süresi verisinin birleşik modellenmesi, 2019 - 2020

Scientific Refereeing

STATISTICAL METHODS IN MEDICAL RESEARCH, SCI Journal, December 2020

COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, Journal Indexed in SCI-E, August 2020

Journal of Statistics Education, Other Indexed Journal, January 2020

Statistics In Medicine, SCI Journal, August 2019

HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, SCI Journal, July 2019

STATISTICAL METHODS IN MEDICAL RESEARCH, National Scientific Refreed Journal, May 2019

Journal of Statistical Computation and Simulation, SCI Journal, December 2018

Statistics in Medicine, SCI Journal, December 2018

Statistics in Medicine, SCI Journal, October 2018

Journal of Applied Statistics, SCI Journal, September 2018

Statistical Modeling, SCI Journal, August 2018

Journal of Forecasting, SCI Journal, August 2018

Statistical Methods in Medical Research, SCI Journal, July 2018

Journal of Multivariate Analysis, SCI Journal, May 2017
Journal of Statistical Computation and Simulation, SCI Journal, May 2017
Journal of Applied Statistics, SCI Journal, November 2016
Statistics in Medicine, SCI Journal, October 2016
Journal of Statistical Computation and Simulation, SCI Journal, May 2016
Computational Statistics and Data Analysis, SCI Journal, February 2016
Computational Statistics and Data Analysis, SCI Journal, August 2015
Journal of Statistical Computation and Simulation, SCI Journal, May 2015
Statistics in Medicine, SCI Journal, March 2015
Statistics and Probability Letters, SCI Journal, October 2014
Statistics in Medicine, SCI Journal, October 2014
Journal of Statistical Software, SCI Journal, October 2014

Mobility Activity

Research Scholarship Program, Seminar, Basque Center for Applied Mathematics, Spain, 2017 - 2017

Metrics

Publication: 34
Citation (WoS): 40
Citation (Scopus): 44
H-Index (WoS): 2
H-Index (Scopus): 3

Non Academic Experience

University of North Carolina Chapel Hill
University of Minnesota