

## Asst. Prof. Gül İnan

### Personal Information

Email: inan@itu.edu.tr

### 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, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, İstatistik, Turkey 2009 - 2014

Postgraduate, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, İstatistik, Turkey 2006 - 2009

Undergraduate, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, İstatistik, Turkey 2001 - 2006

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

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

### Academic Titles / Tasks

Assistant Professor, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Mühendisliği Bölümü, 2018 - Continues

Research Assistant, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, İstatistik Bölümü, 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

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **A marginalized multilevel model for bivariate longitudinal binary data**  
İNAN G., İLK Ö.  
STATISTICAL PAPERS, vol.60, no.3, pp.251-278, 2019 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **Comments on "Longitudinal beta-binomial modeling using GEE for overdispersed binomial data"**  
İnan G.  
STATISTICS IN MEDICINE, vol.37, no.3, pp.503-505, 2018 (Journal Indexed in SCI)
- VII. **Comments on "Marginalized multilevel hurdle and zero-inflated models for overdispersed and correlated count data with excess zeros"**  
İnan G.  
STATISTICS IN MEDICINE, vol.37, no.2, pp.324-326, 2018 (Journal Indexed in SCI)
- VIII. **PGEE: An R Package for Analysis of Longitudinal Data with High-Dimensional Covariates**  
İnan G., Wang L.  
R JOURNAL, vol.9, no.1, pp.393-402, 2017 (Journal Indexed in SCI)
- IX. **Joint GEEs for multivariate correlated data with incomplete binary outcomes**  
İnan G., YÜCEL R.  
JOURNAL OF APPLIED STATISTICS, vol.44, no.11, pp.1920-1937, 2017 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)

- XI. 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., Ilk O., de Leon A. R.

AMERICAN STATISTICIAN, vol.68, no.2, pp.129-130, 2014 (Journal Indexed in SCI)

## 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