

## Asst. Prof. ASLIHAN ŞENTÜRK ACAR

### Personal Information

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### Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Aktüerya Bilimleri, Turkey 2010 - 2016

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Aktüerya Bilimleri, Turkey 2007 - 2010

Undergraduate, Hacettepe University, Fen Fakültesi, Aktüerya Bilimleri, Turkey 2003 - 2007

### Foreign Languages

English, C1 Advanced

Italian, A1 Beginner

### Dissertations

Doctorate, Heterojenliğin sağlık sigortalarında toplam hasar modellerine etkisi, Hacettepe Üniversitesi, Fen Fakültesi, Aktüerya Bilimleri Bölümü, 2016

Postgraduate, Kredibilite teorisinde panel veri modelleri, Hacettepe Üniversitesi, Fen Fakültesi, Aktüerya Bilimleri Bölümü, 2010

### Research Areas

Social Sciences and Humanities, Actuarial Studies, Demography, Statistics, Statistical Analysis and Applications, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Hacettepe University, Fen Fakültesi, Aktüerya Bilimleri Bölümü, 2022 - Continues

Research Assistant, Hacettepe University, Fen Fakültesi, Aktüerya Bilimleri Bölümü, 2007 - 2022

Researcher, Università Degli Studi di Padova, Biyoistatistik, Epidemiyoloji ve Halk Sağlığı Biriminde, 2017 - 2017

Researcher, Università Degli Studi di Padova, Biyoistatistik, Epidemiyoloji ve Halk Sağlığı Birimi, 2014 - 2015

### Published journal articles indexed by SCI, SSCI, and AHCI

1. Understanding the Factors Affecting COVID-19 Mortality in Italy: Does a Relationship Exist With a

### **Sharp Increase in Intensive Care Unit Admissions?**

Lorenzoni G., Azzolina D., Acar A. Ş., Silvestri L., Berchiolla P., Gregori D.

Disaster Medicine and Public Health Preparedness, vol.17, no.16, 2023 (SCI-Expanded)

- II. **Knowledge assessment among subjects with chronic venous leg ulcer in outpatient setting: Translation and adaptation of a tool to identify subjects at risk of poor understanding**  
Martinato M., Ranzato C., Faggian E., Foletto M., Moreal C., Guidone N., Acar A. S., Masiero F., Beghin F., Peruzzo S., et al.  
Wound Repair and Regeneration, vol.31, no.5, pp.679-687, 2023 (SCI-Expanded)
- III. **Fitting Early Phases of the COVID-19 Outbreak: A Comparison of the Performances of Used Models**  
Sciannameo V., Azzolina D., Lanera C., Acar A. Ş., Corciulo M. A., Comoretto R. I., Berchiolla P., Gregori D.  
Healthcare (Switzerland), vol.11, no.16, 2023 (SCI-Expanded)
- IV. **Increased risk of emergency department presentations for bronchiolitis in infants exposed to air pollution**  
Gallo E., Bressan S., Baraldo S., Bottigliengo D., Geremia S., Acar A. S., Zagolin L., Marson G., Da Dalt L., Gregori D.  
RISK ANALYSIS, vol.43, no.6, pp.1137-1144, 2023 (SCI-Expanded)
- V. **A SuperLearner Approach to Predict Run-In Selection in Clinical Trials**  
Lanera C., Berchiolla P., Lorenzoni G., Acar A. S., Chiminazzo V., Azzolina D., Gregori D., Baldi I.  
COMPUTATIONAL AND MATHEMATICAL METHODS IN MEDICINE, vol.2022, 2022 (SCI-Expanded)
- VI. **Profiling Delirium Progression in Elderly Patients via Continuous-Time Markov Multi-State Transition Models**  
Ocagli H., Azzolina D., Soltanmohammadi R., Aliyari R., Bottigliengo D., Acar A. S., Stivanello L., Degan M., Baldi I., Lorenzoni G., et al.  
JOURNAL OF PERSONALIZED MEDICINE, vol.11, no.6, 2021 (SCI-Expanded)
- VII. **Excess of all-cause mortality is only partially explained by COVID-19 in Veneto (Italy) during spring outbreak**  
Gallo E., Prosepe I., Lorenzoni G., Acar A. S., Lanera C., Berchiolla P., Azzolina D., Gregori D.  
BMC PUBLIC HEALTH, vol.21, no.1, 2021 (SCI-Expanded)
- VIII. **Incorporating heterogeneity into the prediction of total claim amount**  
Acar A., KARABEY U., Gregori D.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.47, no.5, pp.1321-1334, 2018 (SCI-Expanded)

### **Articles Published in Other Journals**

- I. **"Clinical Stability" and Propensity Score Matching in Cardiac Surgery: is the clinical evaluation of treatment efficacy algorithm-dependent in small sample size settings?**  
Bottigliengo D., Acar A., Sciannameo V., Lorenzoni G., Bejko J., Bottio T., Cozzi E., Vadori M., Soullidou J., Roussel J. C., et al.  
EPIDEMIOLOGY BIOSTATISTICS AND PUBLIC HEALTH, vol.16, no.1, 2019 (ESCI)
- II. **Sağlık Sigortasında Toplam Hasar Tutarının Kestirimi için Tek kısım ve İki kısım Modellerin Karşılaştırılması**  
ŞENTÜRK ACAR A., KARABEY U.  
İstatistikçiler Dergisi: İstatistik&Aktüerya, vol.9, pp.87-97, 2016 (Peer-Reviewed Journal)
- III. **RISK MEASUREMENT FOR MOTOR THIRD PARTY LIABILITY INSURANCE IN TURKEY**  
Acar A. S., KARABEY U.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.33, no.1, pp.103-111, 2015 (ESCI)
- IV. **Kredibilite Kuramında Panel Veri Modelleri ve Trafik Sigortası için Bir Uygulama**  
ŞENTÜRK ACAR A., Erdemir C.  
İSTATİSTİKÇİLER DERGİSİ: İSTATİSTİK VE AKTÜERYA, vol.3, no.1, pp.17-36, 2010 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Prediction of Claim Probability Using Tree-based Methods**  
ŞENTÜRK ACAR A.  
4th International Researchers, Statisticians And Young Statisticians Congress, İzmir, Turkey, 28 - 30 April 2018
- II. **Modelling Dependence Between Claim Frequency and Claim Severity: Copula Approach**  
ŞENTÜRK ACAR A., KARABEY U.  
10th International Statistics Congress, 6 - 08 December 2017
- III. **Generalized Additive Models: An Application for Turkish Motor Third Party Liability Insurance Claim Size Data**  
ŞENTÜRK ACAR A.  
18. International Symposium on Econometrics, Operations Research and Statistics, Trabzon, Turkey, 5 - 07 October 2017
- IV. **Modelling Number of Claims and Prediction of Total Claim Amount**  
ŞENTÜRK ACAR A., KARABEY U.  
14th International Conference of Numerical Analysis and Applied Mathematics, 19 - 25 September 2016
- V. **Modeling Number of Claims and Prediction of Total Claim Amount**  
Acar A., KARABEY U.  
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 19 - 25 September 2016, vol.1863
- VI. **Usage of Frequency Severity Models in Pricing of Health Insurance**  
ŞENTÜRK ACAR A., KARABEY U.  
3th Conference of Health Economics, Turkey, 8 - 09 December 2016
- VII. **Sağlık Sigortası Fiyatlandırmasında Frekans Şiddet Modellerinin Kullanımı**  
ŞENTÜRK ACAR A., KARABEY U.  
3. Sağlık Ekonomisi Kongresi, Ankara, Turkey, 8 - 09 December 2016
- VIII. **Predicting the Annual Claim Amount of Individuals by Introducing Heterogeneity into Aggregate Loss Models**  
ŞENTÜRK ACAR A., KARABEY U., Gregori D.  
36th International Symposium on Forecasting, 19 - 22 June 2016
- IX. **Predicting the Annual Total Claim Amount of Individuals by Introducing Heterogeneity into Aggregate Loss Models**  
ŞENTÜRK ACAR A., KARABEY U., Gregori D.  
36th International Symposium on Forecasting, Santander, Spain, 19 - 22 June 2016
- X. **Risk Measurement for Claim Amounts of A Turkish Private Health Insurance Company**  
ŞENTÜRK ACAR A., KARABEY U.  
2nd International Researchers-Statisticians and Young Statisticians Congress, Ankara, Turkey, 4 - 08 May 2016
- XI. **Risk Measurement of Claim Amounts of A Turkish Private Health Insurance Company**  
ŞENTÜRK ACAR A., KARABEY U.  
2th International Researchers - Statisticians and Young Statisticians Congress, 4 - 08 May 2016
- XII. **Hasar Sayısı Verisinin Modellenmesi Özel Sağlık Sigortası için Bir Uygulama**  
ŞENTÜRK ACAR A., KARABEY U.  
2. Ulusal Sigortacılık ve Aktüerya Kongresi, Turkey, 17 - 18 September 2015
- XIII. **Hasar Sayısı Verisinin Modellenmesi Özel Sağlık Sigortası İçin Bir Uygulama**  
ŞENTÜRK ACAR A., KARABEY U.  
II. Ulusal Sigorta ve Aktüerya Kongresi, Ankara, Turkey, 17 - 18 September 2015
- XIV. **Marginal Models An Application to Insurance Data**  
ŞENTÜRK ACAR A., KARABEY U., Soriani N., Gregori D.  
55th Meeting of the EWGCFM, Ankara, Turkey, 14 - 16 May 2015
- XV. **Predictive Modeling of Private Health Insurance Claim Severity in Turkey**  
ŞENTÜRK ACAR A., KARABEY U.

- 11th Applied Statistics 2014, Bled, Slovenia, 21 - 24 September 2014
- XVI. **Predictive modeling for private health insurance claim severity in Turkey**  
ŞENTÜRK ACAR A., KARABEY U.  
11th Applied Statistics 2014, 21 - 24 September 2014
- XVII. **Modeling Claim Severity in Motor Insurance Copula Approach**  
ŞENTÜRK ACAR A., KARABEY U.  
9th International Statistic Days Symposium, Antalya, Turkey, 10 - 14 May 2014
- XVIII. **Trafik Sigortasında Risk Ölçümü**  
ŞENTÜRK ACAR A., KARABEY U.  
8. Uluslararası İstatistik Kongresi, Antalya, Turkey, 27 - 30 October 2013
- XIX. **Zaman Serilerinde Benzerlik Araştırması Türkiye Trafik Sigortası için Bir Uygulama**  
ŞENTÜRK ACAR A., SUCU M.  
I. Ulusal Sigorta ve Aktüerya Kongresi, Ankara, Turkey, 5 - 06 June 2013
- XX. **Stochastic Mortality Models An Application to Turkish Mortality Data**  
ŞENTÜRK ACAR A., DODD E.  
8th International Statistics Days Symposium, Eskişehir, Turkey, 11 - 13 October 2012
- XXI. **Kredibilite Modellerinin Türkiye de Trafik Sigortasına Uygulanması**  
ŞENTÜRK A., ERDEMİR C.  
7. Uluslararası İstatistik Kongresi, Antalya, Turkey, 28 April - 01 May 2011
- XXII. **Kesilmiş Dağılımların Sigortacılıkta Kullanımı**  
ŞENTÜRK A., BARLAS D.  
10. Ekonometri ve İstatistik Sempozyumu, Erzurum, Turkey, 27 May - 29 April 2009

## Supported Projects

ŞENTÜRK ACAR A., Project Supported by Higher Education Institutions, Genelleştirilmiş Toplamsal Modeller: Türk Zorunlu Trafik Sigortası Hasar Büyüklüğü Verisi için Bir Uygulama, 2017 - 2018

ŞENTÜRK ACAR A., Project Supported by Higher Education Institutions, Makine Öğrenimi ve Uygulamaları, 2017 - 2017

ŞENTÜRK ACAR A., KARABEY U., GREGORİ D., Project Supported by Higher Education Institutions, Toplam Hasar Modellerine Heterojenlik Dahil Edilerek Bireylerin Yıllık Toplam Hasar Tutarının Kestirimi, 2016 - 2016

YILDIRAK Ş. K., KARATAŞ R., ERDEMİR Ö. G., KIRKAĞAÇ M., ŞENTÜRK ACAR A., NEVRUZ E., BULUT KARAGEYİK B., ARIK A., KARAGÜL B. Z., ŞİMŞEK G., et al., Project Supported by Higher Education Institutions, II. Ulusal Sigorta ve Aktüerya Kongresi, 2015 - 2016

## Metrics

Publication: 34

Citation (Scopus): 2

H-Index (Scopus): 1

## Non Academic Experience

Hacettepe Üni.