

Lect. PhD ASLI BOYRAZ

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: JPA-0258-2023

Yoksis Researcher ID: 121205

Biography

After I finished my Bachelor degree in Mathematics, I wanted to do applied science and I had masters in Informatics. Then, I started to work as Instructor in Computer Programming Department at Recep Tayyip Erdogan University. Only teaching did not satisfy me, I wanted to learn more and to do research. I decided medical area is the best for humanity to use my math and computer background and I chose to do a PhD in Medical Informatics. After I started PhD, I did some work with Medical doctors as statistics counseling. Besides statistics, I wanted to learn how to apply machine learning techniques on medical datasets and I took data science related classes during my PhD.

Currently, my main research interests are Bioinformatics and Medical Data Mining. I worked with unstructured text data in my MS thesis and data mining techniques were explored. In my PhD project, I started to work with genomic datasets. I took a course about Biological Databases and Analyses Tools in order to support my missing biological background. For my PhD project, I started to work with microbiome data (rRNA data) that is high dimensional and sparse. Working with this kind of data is a real challenge. To focus my research, I visited Science for Life Laboratory at Karolinska Institute in Stockholm, Sweden with a government scholarship. During my research, I had experience working with R and I explored bioinformatics pipelines. I worked with a contagion dataset obtained in a hospital environment in order to find the contagion path among objects utilizing microbiome profiles of objects (This research has not published yet). I also figured out microbiome data can be considered as compositional data and I took a course about Compositional Data from the founders of the Compositional Data Research Group in Spain. As my PhD project, we developed a new procedure to analyze microbiome data using compositional data techniques that has a well-founded mathematical background. Eventually, my PhD journey that started to aiming to do an applied project ended up with a mathematical project that has a very useful application.

Education Information

Doctorate, Middle East Technical University, Graduate School Of Informatics, Medical Informatics, Turkey 2012 - 2022

Postgraduate, University of Pittsburgh, Information Science And Technology, Data Science, United States Of America 2008 - 2010

Undergraduate, Hacettepe University, Fen Fakültesi, Matematik, Turkey 2002 - 2006

Foreign Languages

English, C2 Mastery

Certificates, Courses and Trainings

Data Analysis, Compositional Data Analysis, University of Girona, 2018

Data Analysis, Açık Veri ve Veri Okuryazarlığı Sertifikası, Açık Veri Derneği, 2016

Personal Evolution, Gençler Var!, Akdeniz University, 2013

Data Analysis, Mikroarray Eğitimi ve Veri Analizi Kursu, Orta Doğu Teknik Üniversitesi, 2013

Data Analysis, Biological Databases and Analysis Tools , the Instituto Gulbenkian de Ciência, 2012

Dissertations

Doctorate, MICROBIOME DATA ANALYSIS USING COMPOSITIONAL DATA APPROACH, Middle East Technical University, Graduate School Of Informatics, Medical Informatics, 2022

Postgraduate, Potential of Bookmark Based User Profiles, University of Pittsburgh, The School of Computing and Information, Veri Bilimi, 2010

Research Areas

Computer Sciences, bioinformatics, Artificial Intelligence, Computer Learning and Pattern Recognition, Knowledge Engineering, Health Sciences, Biostatistics and Medical Informatics

Academic Titles / Tasks

Lecturer, Recep Tayyip Erdogan University, Teknik Bilimler Meslek Yüksekokulu, Bilgisayar Teknolojileri Bölüm, 2010 - Continues

Courses

İleri Nesne Tabanlı Programlama, Associate Degree, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Veritabanı, Associate Degree, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

İleri Veri Tabanı, Associate Degree, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012

Nesne Tabanlı Programlama, Associate Degree, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

Girişimcilik, Associate Degree, 2021 - 2022

Temel Elektronik, Associate Degree, 2021 - 2022

Yönetim Bilişim Sistemleri, Undergraduate, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- Principal microbial groups: compositional alternative to phylogenetic grouping of microbiome data**
Boyraz A., Pawlowsky-Glahn V., Jose Egozcue J., ACAR A. C.
BRIEFINGS IN BIOINFORMATICS, vol.23, no.5, 2022 (SCI-Expanded)

Articles Published in Other Journals

I. Developing Questionnaires as a Tool of Collecting Information for Program Evaluation in Medical Education

TURHAN K., KURT B., BOYRAZ A., TOPRAK U., ÜNSAL S.

Journal of Medical Education and Informatics, vol.3, no.2, pp.10-19, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. Collective, Collaborative and Personalized Mobile Health Recommender: HealthUp**
Boyraz A.
14. Tıp Bilişimi Kongresi , İzmir, Turkey, 16 - 18 March 2023, pp.256-262
- II. Öğretimsel Bir Araç Olarak Robotlar: Eğitim Uygulamalarında Robotların Kullanımı**
Boyraz A., Keskinç F.
11.th International Computer Instructional Technologies Symposium, Malatya, Turkey, 26 May 2017, pp.1
- III. Bilişim Teknolojileri ve Programlama alanında Kadın**
Boyraz A.
Kadınların mesleki eğitimi ve kadın istihdamı, Ankara, Turkey, 13 December 2017
- IV. Programlama Derslerinde Çevrimiçi Video Desteği Kullanımı ile Öğrencilerin Eğitsel İnternet Kullanım Özyeterlik İnançları Arasındaki İlişkinin İncelenmesi**
Boyraz A., Keskinç F.
11. International Computer Instructional Technologies Symposium, Malatya, Turkey, 26 May 2017, pp.1
- V. Envision Future Analysis of IoT Startup**
Yazağan A., Celik M., Sakınç Z.
ICITS 2016, Tokyo, Japan, 17 - 19 June 2016
- VI. Analysis of Inter-rater Reliability of the Mammography Assessment after Image Processing**
Turhan K., Kurt B., Kul S., Boyraz A.
International Work-Conference on Bioinformatics and Biomedical Engineering, Granada, Spain, 15 April 2015, pp.48
- VII. Data Reduction for Medical Education Program Evaluation Questionnaire**
Turhan K., Kurt B., Yazağan A., Toprak U.
3rd International Work-Conference on Bioinformatics and Biomedical Engineering, Granada, Spain, 15 - 17 April 2015
- VIII. Mortality Prediction with Lactate and Lactate Dehydrogenase**
Engin Y. Z., Turhan K., Yazagan A., Örem A.
3rd International Work-Conference on Bioinformatics and Biomedical Engineering (IWBBIO), Grenada, Spain, 15 - 17 April 2015, vol.9043, pp.78-84
- IX. Biyoinformatik Araştırmaları ve Araçları**
Boyraz A.
Akademik Bilişim, Mersin, Turkey, 5 - 07 February 2014

Supported Projects

BOYRAZ A., Other International Funding Programs, Kod Adı Çocuk, 2015 - 2015

Metrics

Publication: 11

Congress and Symposium Activities

14. Tıp Bilişimi Kongresi, Attendee, İzmir, Turkey, 2023

Kadınların Mesleki Eğitimi ve Kadın İstihdamı, Attendee, Ankara, Turkey, 2017

Bilgisayar ve Öğretim Teknolojileri Sempozyumu, Attendee, Malatya, Turkey, 2017

Scholarships

Doktora Sırası Araştırma Bursu, TÜBİTAK, 2018 - 2018

Yurtdışı Lisansüstü Eğitim Bursu, Ministry of Education, 2007 - 2010

Awards

BOYRAZ A., Ders Performans Ödülü, ODTÜ, April 2014

Representation and Promotion Activities

Institutional Representation, Girona University, Spain, Girona, 2022 - 2023

Institutional Representation, Tbilisi Medical University, Georgia, Tbilisi, 2019 - 2019

Institutional Representation, University of Elblag, Poland, Elblag, 2016 - 2016

Institutional Representation, University of Elblag, Poland, Elblag, 2015 - 2015

Non Academic Experience

University, University of Pittsburgh, Medical School