europass

Burcu Güngör

Passport: 12345677 | **ID:** 46990441614 | **Work permit:** Turkish | **Date of birth:** 11/07/1982 | **Place of birth:** Kayseri, Türkiye | **Nationality:** Turkish | **Gender:** Female | **Phone number:** (+90) 5322259204 (Mobile) | **Email address:** bakirburcu@gmail.com | **Website:** https://avesis.agu.edu.tr/burcu.gungor | **Website:** https://orcid.org/0000-0002-2272-6270 | **Website:** https://dblp.org/pid/81/7242.html | **LinkedIn:** https://www.linkedin.com/in/burcu-bakir-gungor/ |

Address: Erenköy Mah. Billurbağları cad. No: 24/4, Melikgazi, Kayseri, Kayseri, Türkiye (Home)

Address: YILDIRIM BEYAZIT MAH. ASIK VEYSEL BLV. TEKNO 1 NO: 61 IÇ KAPI NO: 75, MELIKGAZI, KAYSERI, Türkiye (Work)

WORK EXPERIENCE

ABDULLAH GÜL UNIVERSITY – KAYSERI, TÜRKIYE

FACULTY MEMBER – 2013 – CURRENT

Associate Professor, Department of Computer Engineering, Faculty of Engineering, Abdullah Gul University, Kayseri, Turkey (2024 - present).
Assistant Professor, Department of Computer Engineering, Faculty of Engineering, Abdullah Gul University, Kayseri, Turkey (2013 - 2024).

TUBITAK – KOCAELI, TÜRKIYE

SENIOR RESEARCHER – 2012 – 2013

Senior Researcher, Advanced Genomics and Bioinformatics Research Center, UEKAE, BILGEM, TUBITAK, Gebze, Kocaeli, Turkey: Design and implementation of new tools to analyze next-generation sequencing data; investigate the genetic basis of monogenic and complex human diseases.

BAHCESEHIR UNIVERSITY – İSTANBUL, TÜRKIYE

FACULTY MEMBER – 2012 – 2012

Assistant Professor, Department of Genetics and Bioinformatics, Faculty of Sciences, Bahcesehir University, İstanbul, Turkey.

BAHCESEHIR UNIVERSITY – İSTANBUL, TÜRKIYE

FACULTY MEMBER – 2009 – 2012

Department of Computer Engineering, Faculty of Engineering, Bahcesehir University, İstanbul, Turkey: Offering undergraduate/graduate courses; supervising graduate theses; supervising graduation projects; conducting research projects.

MEDICAL COLLEGE OF WISCONSIN – MILWAUKEE, UNITED STATES

BIOINFORMATICS SPECIALIST – 2007 – 2009

Bioinformatics Research Center, Rat Genome Database, Human and Molecular Genetics Center, Medical College of Wisconsin, Milwaukee, WI, USA: Design and implementation of new tools to analyze rat and human-related genetic and phenotypic data and to increase variety of data presented at RGD.

GEORGIA INSTITUTE OF TECHNOLOGY – ATLANTA, UNITED STATES

GRADUATE RESEARCH ASSISTANT – 2004 – 2007

School of Biology, Georgia Institute of Technology, Atlanta, GA, USA: Development of computational analysis and prediction tools for discovering sequence-function relationships. **Advisor:** Prof. Mark Borodovsky

THE BUFFALO CENTER OF EXCELLENCE IN BIOINFORMATICS – BUFFALO, UNITED STATES

RESEARCH INTERN – 07/2003 – 09/2003

"Large-scale protein function prediction, based on structural templates for active site detection of enzymes.", supervised by Prof. Jeffrey Skolnick, The Buffalo Center of Excellence in Bioinformatics, Buffalo, NY, USA: Preparation of datasets and benchmarks by applying the method to *E.coli* genome threading results and calculation of its success rate. **Advisor:** Prof. Jeff Skolnick

SUMMER RESEARCH PROJECT – 06/2002 – 08/2002

"CASP5 Protein Structure Prediction Experiment participation project": The prediction of secondary structure of proteins by combining alignment algorithms, threading and functional motifs. **Advisor:** Prof. Uğur Sezerman

GEORGIA INSTITUTE OF TECHNOLOGY – ATLANTA, UNITED STATES

GRADUATE TEACHING ASSISTANT – 01/2007 – 05/2007

School of Biology, Georgia Institute of Technology, Atlanta, GA.

CENTER FOR INDIVIDUAL AND ACADEMIC DEVELOPMENT – ISTANBUL, TÜRKIYE

PEER TUTOR – 2000 – 2004

Writing Center, Center for Individual and Academic Development, SU, Istanbul, Turkey.

PUBLICATIONS RECORD

Total Number of Citations: 1501, h-index: 23

https://scholar.google.com.tr/citations?user=4R2wbm8AAAAJ&hl=tr
·50 papers in SCI / SCIE indexed journals
·25 papers in Q1 journals, 16 papers in Q2 journals,
·51 conference papers
·Field-weighted citation impact (FWCI) in Scopus: 1.30
·WOS ID: FYM-8934-2022
·Scopus ID: 25932029800
·ORC ID: https://orcid.org/0000-0002-2272-6270

PUBLICATIONS

2025
RCE-IFE: Recursive Cluster Elimination with Intra-cluster Feature Elimination

C. Kuzudisli, B. Bakir-Gungor, B. Qaqish, M. Yousef, 2025, "RCE-IFE: Recursive Cluster Elimination with Intra-cluster Feature Elimination", PeerJ Computer Science, 11: e2528

Journal Name: PeerJ Computer Science

2025
3Mont: A Multi-Omics Integrative Tool for Breast Cancer Subtype Stratification

M. Unlu Yazici, J. S. Marron, B. Bakir-Gungor, F. Zou, M. Yousef, 2025, "3Mont: A Multi-Omics Integrative Tool for Breast Cancer Subtype Stratification", PLoS One, 20(6): e0326154

Journal Name: PLoS One

2025
GenShare: Genomic Data Sharing Platform Using a Blockchain-Based Approach

B. Adanur, A. Soran, B. Bakir-Gungor, 2025, "GenShare: Genomic Data Sharing Platform Using a Blockchain-Based Approach", Distributed Ledger Technologies, https://doi.org/10.1145/374369

Journal Name: Distributed Ledger Technologies

2025

Integrating Biological Domain Knowledge with Machine Learning for Identifying Colorectal-Cancer-Associated Microbial Enzymes in Metagenomic Data

B. Bakir-Gungor, N. Ş. Ersöz, M. Yousef, 2025, "Integrating Biological Domain Knowledge with Machine Learning for Identifying Colorectal-Cancer-Associated Microbial Enzymes in Metagenomic Data", Applied Sciences, 15, 2940

Journal Name: Applied Sciences

2025

Breast cancer detection using a new parallel hybrid logistic regression model trained by particle swarm optimization and clonal selection algorithms

M. Etcil et al., 2025, "Breast cancer detection using a new parallel hybrid logistic regression model trained by particle swarm optimization and clonal selection algorithms", Concurrency and Computation: Practice and Experience, 37 (12-14), e70107

Journal Name: Concurrency and Computation: Practice and Experience

2025

Predicting Diabetes Complications from Electronic Health Record Visits Using Machine Learning Algorithms

D. Voskergian, B. Bakir-Gungor, M. Yousef, 2025, "Predicting Diabetes Complications from Electronic Health Record Visits Using Machine Learning Algorithms", Frontiers in Genetics, 16:1451290

Journal Name: Frontiers in Genetics

2025

Prediction of colorectal cancer based on taxonomic levels of microorganisms and discovery of taxonomic biomarkers using the Grouping-Scoring-Modeling approach

B. Bakir-Gungor et al., 2025, "Prediction of colorectal cancer based on taxonomic levels of microorganisms and discovery of taxonomic biomarkers using the Grouping-Scoring-Modeling approach", Computers in Biology and Medicine

Journal Name: Computers in Biology and Medicine

2024

Defect Classification of Composite Materials Using Transfer Learning Methods

A. Gulsen, B. Kolukisa, A. T. Ozdemir, B. Bakir-Gungor and V. C. Gungor, 2024, "Defect Classification of Composite Materials Using Transfer Learning Methods", Nondestructive Testing and Evaluation, 1-17

Journal Name: Nondestructive Testing and Evaluation

2024

Network Anomaly Detection using Deep Autoencoder and Parallel Artificial Bee Colony Algorithm-Trained Neural Network

H. Hacilar, B. K. Dedeturk, B. Bakir-Gungor and V. C. Gungor, 2024, "Network Anomaly Detection using Deep Autoencoder and Parallel Artificial Bee Colony Algorithm-Trained Neural Network", PeerJ Computer Science, 10:e2333

Journal Name: PeerJ Computer Science

2024

Novel Antimicrobial Peptide Design Using Matching Score Motif Representation

U. G. Soylemez, M. Yousef, Z. Kesmen, B. Bakir-Gungor, 2024, "Novel Antimicrobial Peptide Design Using Matching Score Motif Representation", IEEE/ACM Transactions on Computational Biology and Bioinformatics, 21, 6, 1656-1666

Journal Name: IEEE/ACM Transactions on Computational Biology and Bioinformatics

2024

CSA-DE-LR: Enhancing cardiovascular disease diagnosis with a novel hybrid machine learning approach

B. Adanur-Dedeturk, B. Dedeturk, B. Bakir-Gungor, 2024, “CSA-DE-LR: Enhancing cardiovascular disease diagnosis with a novel hybrid machine learning approach”, PeerJ Computer Science, 10:e2197

Journal Name: PeerJ Computer Science

2024

Ensemble Feature Selection for Clustering Damage Modes in Carbon Fiber-Reinforced Polymer Sandwich Composites Using Acoustic Emission

A. Gulsen, B. Kolukisa, U. Caliskan et al., 2024, “Ensemble Feature Selection for Clustering Damage Modes in Carbon Fiber-Reinforced Polymer Sandwich Composites Using Acoustic Emission”, Advanced Engineering Materials, 2400317

Journal Name: Advanced Engineering Materials

2024

Aguhyper: A hyperledger-based electronic health record management framework

B. Adanur-Dedeturk, B. Bakir-Gungor, 2024, “Aguhyper: A hyperledger-based electronic health record management framework”, PeerJ Computer Science, 10:e2060

Journal Name: PeerJ Computer Science

2024

eTNT: Enhanced TextNetTopics with Filtered LDA Topics and Sequential Forward / Backward Topic Scoring Approaches

D. Voskergian et al., 2024, “eTNT: Enhanced TextNetTopics with Filtered LDA Topics and Sequential Forward / Backward Topic Scoring Approaches”, International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 15:7

Journal Name: International Journal of Advanced Computer Science and Applications (IJACSA)

2023

microBiomeGSM: The identification of taxonomic biomarkers from metagenomic data using Grouping, Scoring and Modeling (G-S-M) approach

B. Bakir-Gungor, M. Temiz, A. Jabeer, D. Wu, M. Yousef, 2023, “microBiomeGSM: The identification of taxonomic biomarkers from metagenomic data using Grouping, Scoring and Modeling (G-S-M) approach.”, Frontiers in Microbiology, 14: 1264941

Journal Name: Frontiers in Microbiology

2023

Ensemble feature selection and classification methods for machine learning-based coronary artery disease diagnosis

B. Kolukisa, B. Bakir-Gungor, 2023, “Ensemble feature selection and classification methods for machine learning-based coronary artery disease diagnosis”, Computer Standards & Interfaces, 84, 103706

Journal Name: Computer Standards & Interfaces

2023

A toolbox of machine learning software to support microbiome analysis

L. J. Marcos Zambrano, V. M. López Molina, B. Bakir-Gungor, et. al. 2023, “A toolbox of machine learning software to support microbiome analysis”, Frontiers in Microbiology, 14: 1250806

Journal Name: Frontiers in Microbiology

2023

GeNetOntology: Gene Expression based Gene Ontology Grouping and Scoring

N.S. Ersoz, B. Bakir-Gungor, M. Yousef, 2023, “GeNetOntology: Gene Expression based Gene Ontology Grouping and Scoring”, Frontiers in Genetics, 14: 1139082

Journal Name: Frontiers in Genetics

2023

PriPath: Identifying Affected Pathways from Differential Gene Expression via Grouping, Scoring and Modeling with an Embedded Machine Learning Approach

M. Yousef, F. Ozdemir, A. Jabeer, J. Allmer, B. Bakir-Gungor, 2023, "PriPath: Identifying Affected Pathways from Differential Gene Expression via Grouping, Scoring and Modeling with an Embedded Machine Learning Approach", BMC Bioinformatics, 24: 60

Journal Name: BMC Bioinformatics

2023

Review of Feature Selection Approaches Based on Grouping Features

C. Kuzudisli, B. Qaqish, B. Bakir-Gungor, M. Yousef, 2023, "Review of Feature Selection Approaches Based on Grouping Features", PeerJ, 11: e15666

Journal Name: PeerJ

2023

AMP-GSM: Prediction of Antimicrobial Peptides via Grouping-Scoring-Modeling Approach

Ü.G. Söylemez, M. Yousef, B. Bakir-Gungor, 2023, "AMP-GSM: Prediction of Antimicrobial Peptides via Grouping-Scoring-Modeling Approach", Applied Sciences, 13(8):5106

Journal Name: Applied Sciences

2023

Invention of 3Mint for Feature Grouping and Scoring in Multi-Omics

M. Unlu Yazici, J.S. Marron, B. Bakir-Gungor, F. Zou, M. Yousef, 2023, "Invention of 3Mint for Feature Grouping and Scoring in Multi-Omics", Frontiers in Genetics, 14:1093326

Journal Name: Frontiers in Genetics

2023

miRdisNET: Discovering microRNA Biomarkers that are Associated with Diseases utilizing Biological Knowledge-based Machine Learning

A. Jabeer, M. Temiz, B. Bakir-Gungor, M. Yousef, 2023, "miRdisNET: Discovering microRNA Biomarkers that are Associated with Diseases utilizing Biological Knowledge-based Machine Learning", Frontiers in Genetics, 13:1076554

Journal Name: Frontiers in Genetics

2023

Topological feature generation for link prediction in biological networks

M. Temiz, B. Bakir-Gungor, P. Guner, M.Coskun, 2023, "Topological feature generation for link prediction in biological networks", PeerJ, 11:e15313

Journal Name: PeerJ

2023

Integrative Analyses in Omics Data: Machine Learning Perspective

M. Unlu Yazici, B. Bakir-Gungor, M. Yousef, 2023, "Integrative Analyses in Omics Data: Machine Learning Perspective", GMS Medizinische Informatik, Biometrie und Epidemiologie, Vol. 19, ISSN 1860-9171

Journal Name: GMS Medizinische Informatik, Biometrie und Epidemiologie

2023

TextNetTopics Pro, a Topic Model-Based Text Classification for Short Text by Integration of Semantic and Document-Topic Distribution Information.

D. Voskergian, B. Bakir-Gungor, M. & Yousef, 2023, "TextNetTopics Pro, a Topic Model-Based Text Classification for Short Text by Integration of Semantic and Document-Topic Distribution Information.", Frontiers in Genetics, 14, 1243874

Journal Name: Frontiers in Genetics

2022
Inflammatory Bowel Disease Biomarkers of Human Gut Microbiota Selected via Ensemble Feature Selection Methods

B. Bakir-Gungor, H. Hacilar, A. Jabeer, O.U. Nalbantoglu, O. Aran, M. Yousef, 2022, “Inflammatory Bowel Disease Biomarkers of Human Gut Microbiota Selected via Ensemble Feature Selection Methods”, PeerJ, 10: e13205

Journal Name: PeerJ

2022
Comparative Performance Analysis Of Arima, Prophet And Holt-Winters Forecasting Methods On European Covid-19 Data

N.S. Ersoz, et al. 2022, “Comparative Performance Analysis Of Arima, Prophet And Holt-Winters Forecasting Methods On European Covid-19 Data”, International Journal Of 3D Printing Technologies And Digital Industry, 5:3, 353-360

Journal Name: International Journal Of 3D Printing Technologies And Digital Industry

2022
Enlightening the molecular mechanisms of Type 2 Diabetes with a novel pathway clustering and pathway subnetwork approach

B. Bakir-Gungor, M.U. Yazici, G. Goy, M. Temiz, 2022, “Enlightening the molecular mechanisms of Type 2 Diabetes with a novel pathway clustering and pathway subnetwork approach”, Turkish Journal of Biology, 46: 4

Journal Name: Turkish Journal of Biology

2022
Prediction of Linear Cationic Antimicrobial Peptides Active against Gram-Negative and Gram-Positive Bacteria Based on Machine Learning Models

Ü.G. Söylemez, M. Yousef, Z. Kesmen, M.E. Büyükkiraz, B. Bakir-Gungor, 2022, “Prediction of Linear Cationic Antimicrobial Peptides Active against Gram-Negative and Gram-Positive Bacteria Based on Machine Learning Models”, Applied Sciences, 12, 3631

Journal Name: Applied Sciences

2022
miRModuleNet: Detecting miRNA-mRNA Regulatory Modules

M. Yousef, G. Goy, B. Bakir-Gungor, 2022, “miRModuleNet: Detecting miRNA-mRNA Regulatory Modules”, Frontiers in Genetics, 13:767455

Journal Name: Frontiers in Genetics

2022
Developing a label propagation approach for cancer subtype identification problem

P. Guner, B. Bakir-Gungor, M.Coskun, 2022, “Developing a label propagation approach for cancer subtype identification problem”, Turkish Journal of Biology, 46:145-161

Journal Name: Turkish Journal of Biology

2022
Clinical and Molecular Evaluation of MEFV Gene Variants in the Turkish Population: A study by the National Genetics Consortium

M. Dundar, U. Fahrioglu, S.H. Yildiz, B. Bakir-Gungor, et. al. 2022, “Clinical and Molecular Evaluation of MEFV Gene Variants in the Turkish Population: A study by the National Genetics Consortium”, Functional&Integrative Genomics, 22:3

Journal Name: Functional&Integrative Genomics

2022

Impact of Image Preprocessing on Skin Cancer Image Classification Using Convolutional Neural Networks

B. Bakir-Gungor, B. Adanur Dedeturk, K. Tasdemir, 2022, “Impact of Image Preprocessing on Skin Cancer Image Classification Using Convolutional Neural Networks”, Erciyes University Journal of Institue Of Science and Technology, 38: 2

Journal Name: Erciyes University Journal of Institue Of Science and Technology

2021

Discovering Potential Taxonomic Biomarkers of Type 2 Diabetes From Human Gut Microbiota via Different Feature Selection Methods

B. Bakir-Gungor, O. Bulut, A. Jabeer, O.U. Nalbantoglu, M. Yousef, 2021, “Discovering Potential Taxonomic Biomarkers of Type 2 Diabetes From Human Gut Microbiota via Different Feature Selection Methods”, Frontiers in Microbiology, 1330

Journal Name: Frontiers in Microbiology

2021

Statistical and machine learning techniques in human microbiome studies: contemporary challenges and solutions

Moreno-Indias, et al. 2021, “Statistical and machine learning techniques in human microbiome studies: contemporary challenges and solutions”, Frontiers in Microbiology, 12, 277

Journal Name: Frontiers in Microbiology

CONFERENCES AND SEMINARS

12/2023 İstanbul

Geleceğin Sağlık Teknolojileri- Genomiks Kongresi

TÜSEB Future Health, Geleceğin Sağlık Teknolojileri- Genomiks Kongresi, December 8-9, 2023, Istanbul, Turkey.

15/12/2023 Ankara

Cumhuriyetin 100. Yılında Genç Kadın Bilim İnsanları’nın Başarısına UNESCO L’OREAL Bilimde Kadınlar Programı’nın Katkısı Çalıştayı

Cumhuriyetin 100. Yılında Genç Kadın Bilim İnsanları’nın Başarısına UNESCO L’OREAL Bilimde Kadınlar Programı’nın Katkısı Çalıştayı, December 15, 2023, UNESCO Türkiye Milli Komisyonu, Ankara, Turkey.

02/2020 Kocaeli

Ulusal Yapay Zeka Teknoloji Yol Haritası Belirleme Çalıştayı

Ulusal Yapay Zeka Teknoloji Yol Haritası Belirleme Çalıştayı, Cumhurbaşkanlığı Dijital Dönüşüm Ofisi Başkanlığı, TÜBİTAK, February 22-23, 2020, Kocaeli, Turkey.

07/2018 İstanbul

Machine Learning Summer School

Machine Learning Summer School, Boğazda Yapay Öğrenme Yaz Okulu (BYÖYO 2018) July 2-5 2018, Boğaziçi University, İstanbul, Turkey.

09/2017 Ankara

Türkiye Genom Projesi Stratejik Eylem Planı Çalıştayı

Türkiye Genom Projesi Stratejik Eylem Planı Çalıştayı, Türkiye Sağlık Enstitüleri Başkanlığı (TÜSEB), September 25-26, 2017, Ankara, Turkey.

10/2016 İstanbul

3. Türk Tıp Dünyası Kurultayı

3. Türk Tıp Dünyası Kurultayı, Türkiye Genom Projesi Tanıtımı, October 29-30, 2016, İstanbul, Turkey.

06/2016 Ankara

Türkiye Genom Projesi Biyoenformatik Çalıştayı

Türkiye Genom Projesi Biyoenformatik Çalıştayı, TÜSEB, June 13-14, 2016, Ankara.

02/2016 İstanbul

Türkiye Genom Projesi Hazırlık Çalıştayı

Türkiye Genom Projesi Hazırlık Çalıştayı, TÜSEB, February 12-13, 2016, İstanbul.

11/2014 İstanbul

TÜBİTAK Yeni Nesil Genom Dizileme Sempozyumu

TÜBİTAK Yeni Nesil Genom Dizileme Sempozyumu, Nov 3, 2014, İstanbul, Turkey.

05/2013 Ankara

Medikal Biyoteknoloji Konferansı

Medikal Biyoteknoloji Konferansı, May 27, 2013, TUBITAK, Ankara, Turkey.

05/2013 Ankara

Medikal Biyoteknoloji'de Öncelikli Alan Belirleme

07/2008 USA

GMOD Summer School

GMOD Summer School, July 11-13, 2008, National Evol. Synthesis Center, NC, USA.

11/2007 Madison

Wisconsin Early Stage Symposium

Wisconsin Early Stage Symposium, organized by Wisconsin Biotechnology and Medical Device Association, November 15-17, 2007, Madison, WI, USA.

10/2007 USA

Put Your PhD to Work: A Career Symposium for Scientists

Put Your PhD to Work: A Career Symposium for Scientists, October 26, 2007, Medical College of Wisconsin, Milwaukee, WI, USA.

11/2005 USA

The 5th Georgia Tech International Conference on Bioinformatics

The 5^{th} Georgia Tech International Conference on Bioinformatics, November 17-19, 2005, Georgia Institute of Technology, Atlanta, GA, USA.

06/2005 USA

Structural, Functional & Evolutionary Genomics Gordon Conference

Structural, Functional & Evolutionary Genomics Gordon Conference, June 19-24, 2005, Bates College, Lewiston, ME, USA.

12/2004 Berlin

International BCB Workshop on Gene Annotation Analysis and Alternative Splicing

International BCB Workshop on Gene Annotation Analysis and Alternative Splicing, December 13-14, 2004, Berlin, Germany.

03/2003 İzmir

The 3rd National Molecular Biology and Genetics Student Congress

The 3rd National Molecular Biology and Genetics Student Congress, March 2-4, 2003, Ege University, Izmir, TURKEY.

EDUCATION

2012
Ph.D. in Bioinformatics

Ph.D. in Bioinformatics, Georgia Institute of Technology, Atlanta, GA, U.S.A; Biological Sciences and Bioengineering, Faculty of Engineering and Natural Sciences, Sabanci University, Istanbul, Turkey (2012).

2007
M.Sc. in Bioinformatics

M.Sc. in Bioinformatics, Georgia Institute of Technology, Atlanta, GA, U.S.A (2007).

2004
B.Sc. in Biological Sciences and Bioengineering

B.Sc., Biological Sciences and Bioengineering, Faculty of Engineering and Natural Sciences (FENS), Sabanci University (SU), Istanbul, Turkey (2004).

TEACHING EXPERIENCE

2013 – CURRENT
Instructor Department of Computer Engineering at AGU

Department of Computer Engineering, Faculty of Engineering, Abdullah Gul University, Kayseri, Turkey (2013 - present).
·Bioinformatics (ECE 561)
·Artificial Intelligence in Bioinformatics Algorithms to Applications (ECE 648)
·Computational Genomics (ECE 563)
·Computational Genomics (COMP 463)
·Art of Computing (COMP 101)
·Exploring Computer Engineering (COMP 104)

2009 – 2012
Instructor Department of Computer Engineering at Bahcesehir University

Department of Computer Engineering, Faculty of Engineering, Bahcesehir University, İstanbul, Turkey (2009 - 2012).
·Bioinformatics (CMPE 4131)
·Object Oriented Programming C++ (CMPE 1002)
·Introduction to Computing C (CMPE 1001)
·Problem Solving with VB (CMPE 1003)

2007 – 2007
Instructor School of Biology at Georgia Institute of Technology

School of Biology, Georgia Institute of Technology, Atlanta, GA (2007).
·Mathematical Models in Biology (BIOL 2400).

RESEARCH PROJECTS

01/01/2024 – 31/12/2026
Principle Investigator (PI)

Principle Investigator (PI), “Sosyal Medya, Haber, Temel Ve Teknik Analizleri Dikkate Alan Makine Öğrenmesi Temelli Hisse Senedi Yatırım Tavsiye Platformu”, TUBITAK TEYDEB 1501, Project No: 3230482, 01.01.2024-31.12.2026.

2023 – 2025
Researcher

Researcher, “An Artificial Intelligence System for Intelligent Traffic Management at Multiple Intersections”, PI: Assoc. Prof. Mustafa Coskun, TUBITAK TEYDEB 1501, Project No: 3220798, 30.03.2023-31.12.2025.

Researcher

Researcher, “İnsan vasküler beyin organoidleri kullanarak ukmRNA XIST'in MS etiyopatogenezindeki rolünü belirlemeye yönelik bütünleştirici transkriptomik, proteomik ve makine öğrenimi yaklaşımı”, PI: Prof. Alaaddin Şen, TUBITAK 1001, Project No: 124Z081.

Advisor

Advisor, “Normal Kilolu ve Obez Çölyak Hastalarında RNA Dizi Analizi Gerçekleştirilmesi ve Analiz Sürecinde Yeni Bir Fonksiyonel Zenginleştirme Aracının Geliştirilmesi”, PI: Assoc. Prof. Feyza Nur Tuncer, TUSEB, Project No: 32493.

Researcher

Researcher, “Rekombinant Antimikrobiyal Peptid Üretimi”, PI: Prof. Zülal Kesmen, TUBITAK 1001, Project No: 120Z565.

2022 – 2024
Advisor

Advisor, “Proteogenomik Yaklaşımlar Kullanılarak Trueperella Pyogenes Pyolosin Toksinine Özgü Nanokorların Tanımlanması”, PI: Assist. Prof. Serife Ayaz Guner, TUBITAK 1001, Project No: 121O664, 01.11.2022 - 31.12.2024.

2010 – 2013
Researcher

Researcher, “Genome-wide Integrated Methylome Analyses in Idiopathic Generalized Epilepsy”, PI: Prof. Ugur Ozbek, Intensified Cooperation (IntenC): Promotion of German-Turkish Higher Education Research Grant #109S218, 309,450TL, 01.07.2010-01.07.2013.

2007 – 2009
Researcher

Researcher, “Rat Genome Database”, Medical College of Wisconsin, PI: Prof. Howard Jacob, NIH, the National Heart, Lung, and Blood Institute (NHLBI), Grant #HL64541, $20,000,000, 02.02.2007-02.07.2009.

2004 – 2007
Researcher

Researcher, “GeneMark, Development of Gene Prediction Algorithms”, Georgia Institute of Technology, PI: Prof. Mark Borodovsky, NIH, Grant #HG00783, $500,000, 10.08.2004-01.05.2007.

SCHOLARSHIP, AWARDS AND ACHIEVEMENTS

2022
L’ORÉAL UNESCO Young Women Scientist Award

International Mentor, **Bioinfo4Women International Pilot Mentoring Programme for Young Scientists,** Barcelona, Spain (2022-present).
Discovery of the Colorectal Cancer-Associated Taxonomic Biomarkers from the Human Gut Microbiota

2022 – CURRENT
Bioinfo4Women International Pilot Mentoring Programme for Young Scientists

Best Paper Award, 5th International Conference on Computer Science and Engineering (UBMK), Turkey.

2020
Best Paper Award

ERASMUS Staff Exchange, Advances in Computational Biology Conference (AdvCompBio), Barcelona, Spain.

2019
ERASMUS Staff Exchange

Bioinfo4Women - Outstanding Young Female Bioinformaticians Programme Barcelona, Spain.

2018
Bioinfo4Women - Outstanding Young Female Bioinformaticians Programme

10th Severo Ochoa Mobility Programme, Barcelona Supercomputing Center, Barcelona, Spain.

2018

10th Severo Ochoa Mobility Programme

ERASMUS Teaching Exchange, Barcelona Supercomputing Center, Barcelona, Spain .

2018

ERASMUS Teaching Exchange

Bioinformatics Summer School Organization, Advanced Genomics and Bioinformatics Research Center, BİLGEM, TUBITAK, Kocaeli, Turkey, Grant # B.14.2.TBT.0.06.01.00-229-95717 of TUBITAK, BIDEB, 2229, 23572 TL.

2013

Bioinformatics Summer School Organization

Best Poster Award, Impact & Challenges of Comprehensive Rare Variant Analyses, Potsdam, Germany.

2011

Best Poster Award

ERASMUS Teaching Exchange, the Upper Austria University of Applied Sciences, Austria.

2010

ERASMUS Teaching Exchange

Best Paper Award, 4th European Workshop on Evolutionary Computation and Machine Learning in Bioinformatics (EvoBIO2006), Budapest, Hungary (April 2006).

2006

Best Paper Award

Best Poster Award, Emerson Center Lectureship Award Symposium, Emory University, Atlanta, GA, USA (May 2005).

2005

Best Poster Award

Graduate Research Fellowship with tuition remission awarded by Georgia Institute of Technology, School of Biology, Atlanta, GA, USA (August 2004–June 2007).

2004 – 2007

Graduate Research Fellowship

Research Asisstant, awarded by Cornell University, Weill Medical College, Rockefeller University, The Tri-Institutional Graduate Program in Computational Biology and Medicine, New York, NY, USA (2004).

2004

Research Asisstant

Research Asisstant**,** awarded by Rutgers University, Graduate School of Biomedical Science, Newark, NJ, USA (2004).

2004

Research Asisstant

Internship Scholarship, Buffalo Center of Excellence in Bioinformatics, Buffalo, NY, USA (Summer 2003).

2003

Internship Scholarship

Sabanci University, Success Scholarship Turkey (1999–2004).

1999 – 2004

Success Scholarship

Sabanci University, Certificate of High Honor and Honor, Turkey.

Certificate of High Honor and Honor

Summa Cum Laude, ranked first among 180, Nuh Mehmet Baldoktu Anatolian High School, Kayseri, Turkey (1999).

1999

Summa Cum Laude, ranked first among 180

PROFESSIONAL ACTIVITIES

International Mentor

International Mentor, Bioinfo4Women International Pilot Mentoring Programme for Young Scientists, Barcelona Supercomputing Center (BSCQ1), Barcelona, Spain.

Mentor

Mentor, For Women in Science – Bilim Kadınları İçin Programı ve Toplum Gönüllüleri (TOG) işbirliği ile mentorluk programı.

Editorial Board Member

Editorial Board Member, PeerJ.

Scientific Commitee Member for Big Data

Scientific Commitee Member for Big Data, SIU, UBMK, HIBIT conferences.

Organization Commitee Member for 4th Life Sciences Congress

Organization Commitee Member for 4^{th} Life Sciences Congress, Kayseri, Turkey.

Reviewer for Bioinformatics

Reviewer for Bioinformatics, PeerJ, Frontiers in Genetics, Frontiers in Microbiology, Functional and Integrative Genomics, Machine Learning, Journal of Computational Biology, Turkish Journal of Electrical Engineering & Computer Sciences, Turkish Journal of Biochemistry journals, Big Data, SIU, UBMK, HIBIT conferences.

Panelist for EU Horizon2020 CoCirculation Programme

Panelist for EU Horizon2020 CoCirculation Programme, TUBİTAK 3001, 3501, İkili İş Birliği, KOSGEB, Araştırma-Geliştirme ve İnovasyon, Endüstriyel Uygulama Destek Programı, Biyoenformatik, EEEAG-Elektrik, Elektronik, Enformatik Araştırma Destek Grubu, SBAG-Sağlık Bilimleri Araştırma Destek Grubu panels.

Core Courses Committee member

Core Courses Committee member, the organization and design of university-wide “Art of Computing” and “Science of Nature” courses, AGÜ, Kayseri, Turkey.

AGÜ Research Labs Committee member

AGÜ Research Labs Committee member, the revision of the project submitted to the Ministry of Development, the design of the Bio Labs, AGÜ, Kayseri, Turkey.

Occupational Health and Safety Committee member

Occupational Health and Safety Committee member, AGÜ, Kayseri, Turkey.

Faculty Member Search Committee member

Faculty Member Search Committee member, Dept. of Computer Engineering, AGÜ.

Member

Member, International Society for Computational Biology (ISCB).

Erasmus coordinator

Erasmus coordinator, Faculty of Engineering, Bahcesehir University,İstanbul, Turkey.

Judge for Regional Science Fair

Judge for Regional Science Fair, Atlanta, GA, USA.

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