

Research Interests

Microbial Ecology, Climate Change, Environmental Toxicology

Language

Turkish (Native)

Azerbaijani (Fluent)

English (C1)

Education

BSc in Biology

Faculty of Science, Biology Department

CGPA: 3.95 (highest-ranked student in the whole faculty history)

Hacettepe University, Ankara, Türkiye

2021 / 9 – expected in 2025 / 6

Projects

[1] Soil organisms under global change, Effects of climate change and land-use on belowground communities.

German Centre for Integrative Biodiversity Research (iDiv) Halle – Jena – Leipzig

Experimental Interaction Ecology Laboratory (Eisenhauer Lab)

•Supervisors: Dr. Marie Sünemann, Prof. Dr. Nico Eisenhauer

“Responses of Microorganisms, Nematodes, Meso- and Macrofauna under different climate change scenarios and different land-use treatments” – This project will be done as my bachelor’s degree thesis.

[2] The Impacts of Different Wildfire Intensities on Soil Bacteria and Fungi Communities in *Pinus brutia* (Turkish pine) Forests of Türkiye.

Functional Ecology Laboratory – Hacettepe University

Evolutionary Genetics Laboratory – Ankara University

•Supervisors: Prof. Dr. Cagatay Tavsanoğlu, Prof. Dr. Emre Keskin, Assist Prof. Dr. Emine Ertekin

“Impacts of moderate and high wildfire intensities on soil bacteria and fungi communities being assessed by using eDNA metabarcoding techniques”

Research Experience

Functional Ecology Laboratory

<https://funecol.org/>

•Internship, Advisor: Prof. Dr. Cagatay Tavsanoğlu

Hacettepe University, Türkiye

2022 / 7 – ongoing

TUBITAK Scholarship

(The Scientific and Technological Research Council of Türkiye)

•Internship, Advisors: Prof. Dr. Cagatay Tavsanoğlu, Gokhan Ergen

Hacettepe University, Türkiye

2023 / 4 – 2023 / 11

Project – The History of post-fire restoration applications impact on plant communities in Turkish Pine (*Pinus brutia*) forests in Mugla, Marmaris, Türkiye

Erasmus+ Traineeship Programme Internship

German Centre for Integrative Biodiversity Research (iDiv)

Experimental Interaction Ecology Group (Eisenhauer lab.)

•Advisors: Dr. Marie Sünemann, Prof. Dr. Nico Eisenhauer

2024 / 7 / 8 – 2024 / 9 / 27

Fieldworks

•Mushroom Diversity Assessment, Abant National Park, Bolu, Türkiye

2022 / 1 / 17 – 2022 / 1 / 19

•Soil Sample Collection for Abiotic Property Analysis, Anatolian Steppes, Sivrihisar, Eskisehir, Türkiye

2022 / 9 / 05 – 2022 / 9 / 08

•Vegetation diversity Assessment in Artificial Terraced and Planted Regions, After Wildfires in Mediterranean Ecosystems of Türkiye [1]

2023 / 4 / 18 – 2023 / 4 / 23

•Post-fire Plant Diversity Assessment, Phrygana Vegetation areas, burnt in 2009, 2010, 2016 and 2020, Mediterranean Ecosystems of Türkiye

2023 / 4 / 29 – 2023 / 5 / 13

•Vegetation diversity Assessment in Artificial Terraced and Planted Regions, After Wildfires in Mediterranean Ecosystems of Türkiye [2]

2023 / 6 / 18 – 2023 / 6 / 23

•Collection of Anatolian Steppe Plant Roots for Functional Character Assessment [1]

2023 / 8 / 24

•Collection of Anatolian Steppe Plant Roots for Functional Character Assessment [2]

2023 / 9 / 7

•Assessment of Recruitment Interactions of Woody Plant Species in Trojan Fir Forests of Kazdağları, Northwest Türkiye

2023 / 9 / 11 – 2023 / 9 / 25

•Soil Sample Collection for Analysis of Wildfire Intensity Impact on Bacterial and Fungal Communities

2023 / 9 / 26 – 2023 / 9 / 29

•Collection of Anatolian Steppe Plant Roots for Functional Character Assessment [3]

2024 / 6 / 12

•Collection of Anatolian Steppe Plant Roots for Functional Character Assessment [4]

2024 / 6 / 20 – 2024 / 6 / 23

Skills

Analyze programs: R (Advanced level)

Computer skills: Microsoft Office programs, Adobe programs

Memberships

•Co-Founder of the Ankara University Biological Sciences Society, *2021 – 2022*

•Ecology and Evolutionary Biology Society of Türkiye, *2024 – ongoing*

Academic Courses, Workshops, and Certificates

•2025 Land Ethic Education Project, 10-11 May, Ankara, Türkiye

•3rd introduction to R programming in Natural Sciences Workshop (Ecology and Evolutionary Biology Society of Türkiye)

•R Programming A-Z™: R For Data Science With Real Exercises! (UDEMY)
No: UC-d8cbdf48-79fa-41a8-94e0-81173-b35a201

Scientific Meetings

•2025 International Wildlife Documentary Film Festival, 15-18 May, Ankara, Türkiye

•2025 Birds and Words: Tracing biocultural diversity in sub-Saharan Africa, 27 April, Ankara, Türkiye

•2024 IUCN red list from past to present and new approaches and trends in conservation biology, 4 November, Ankara, Türkiye

•2024 Effects of global climate change on Salt Lake plants, and habitat diversity Conference, 5 March, Ankara, Türkiye

•2024 Biodiversity of Anatolia, from Steppes to Mountains Conference, 14 February, Ankara, Türkiye

•2023 VIV. Ecology and Evolutionary Biology Symposium, Istanbul, Türkiye

•2022 VIII. Ecology and Evolutionary Biology Symposium, Ankara, Türkiye

•2022 III. Multidisciplinary neuroscience conference, Ankara, Türkiye

•2022 Levontin's Legacy, Science, Philosophy and Policy Conference, Ankara, Türkiye

•2021 5th Biogeography Conference, Ankara, Türkiye

•2021 16th Aykut Kence Evolution Conference, Ankara, Türkiye

Science Outreach & Blog Writing

•Unutulmuş bir tanrı: Benim sadık yarım kara topraktır, 20 April 2025
(<https://bedirhanavdanci.github.io/posts/MitolojikToprak/index1.html>)

•Diana Wall, 30 June 2024
(<https://bedirhanavdanci.github.io/posts/DianaWall/>)

Hobbies and Interests

Playing violin, Camping