Gülseli KIRGIL

PERSONAL

Adress: Ankara, Türkiye

E-Mail: gulsekrgl23@gmail.com

EDUCATION

2022 - present

Master of Science (M.Sc.) in **Biology (Ecology)**, Hacettepe University, Graduate School of Science and Engineering, Ankara, Turkiye

Functional Ecology Laboratory (Web site: https://funecol.org/)

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<u>Seminar:</u> Climate Change Effects on Biodiversity and Abundance of Insects (in Turkish; 01/11/2023)

Thesis (provisional title): Comparison of pollinator insect diversity in common and rare plant species growing in marl steps by using eDNA metabarcoding (will be in Turkish; Supervisor: Prof. Dr. Çağatay Tavşanoğlu, Co-supervisor: Prof. Dr. Emre Keskin)

2014 - 2021

Bachelor of Science (B.Sc.) in **Molecular Biology and Genetics**, İstanbul University, İstanbul, Turkiye. (CGPA: 3.04/4.00)



* The Bachelor thesis: Theoretical Assessment of the Evolution of Eusocial Behavior in Insects from the Eco-Evo-Devo Perspective (in Turkish; 96 pages; Supervisor: Asst. Prof. Dr. Çağatay Tarhan)

2014-2015: İstanbul University / English Prep School

ACADEMIC INTERESTS AND SKILLS

- Community ecology
- Insect ecology
- Insect interactions (plant-insect interactions (especially pollination), intra-specific interactions of insects)
- Eusocial insects (especially bees and ants; eusocial behavior in insects, evolution of eusocial behavior)
- Ecophysiology (How ecological factors affect evolutionary developmental patterns; developmental and phenotypic plasticity)
- Epigenetics
- Eco-Evo-Devo
- Aging (Aging in eusocial insects)

INTERNSHIPS & RESEARCH EXPERIENCE

03/14/2022 - 10/18/2022 Biodiversity and Conservation Laboratory, Middle East Technical

University, Ankara, Turkiye

Advisor: Prof. Dr. Can Bilgin

MIDDLE EAST TECHNICAL UNIVERSITY

<u>Topics:</u> Biodiversity, honeybee diversity and richness, conservation

genomics, project design.

Web site of laboratory: https://blog.metu.edu.tr/cbilgin/

01/31/2022 - 03/11/2022 **Evolutionary Genetics Laboratory**, Ankara University, Ankara,

Turkiye.

Advisor: Prof. Dr. Emre Keskin

<u>Topics:</u> eDNA metabarcoding, DNA and RNA isolation, PCR and

 $\ensuremath{\mathsf{qPCR}},$ bioinformatics (MEGA and OBITools).

Web site of laboratory: https://eglbio.com/

WORK EXPERIENCES

2018-2021 Bilim ve Gelecek - **Scientific journalism / Editor**

HOBBIES & INTERESTS

2015 - 2019 İstanbul University, Faculty of Science, Theatre Club

(2017 - 2019: Chairman of Theatre Club)

COMPUTER SKILLS

Analysis skills: R, OBITools

Other: Microsoft Programs, Adobe Programs (Photoshop, Premiere Pro, InDesign)

LANGUAGE SKILLS

Turkish: Native German: Elementary

English: Fluent Japanese: Elementary

MEMBERSHIPS

(Web site: https://www.ekoevo.org/en/)

SCOLARSHIPS

11/26/2024 - present	Scholarship student in TUBITAK 1002 project (Revealing the resource-use strategies and aboveground and belowground functional trait structure in a marly steppe plant community)
10/01/2022 – 09/30/2024	The Scientific and Technological Research Council of Turkey (TUBITAK) National Master Scholarship Program
11/24/2022 – 05/22/2024	Scholarship student in TUBITAK 1001 project (Climate effects on activity patterns and trophic interactions of

ACADEMIC EXPERIENCES

June 2023 – present Coordinator of Functional Ecology Laboratory

Myotis myotis)

SCIENTIFIC PRESENTATIONS

 Oral presentation on "Species diversity, abundance and community composition of Carabidae (Coleoptera) across habitats in north central Anatolia" at 10th Ecology and Evolutionary Biology Symposium (EEBST 2024). (25 July 2024; Çanakkale On Sekiz Mart University, Çanakkale/Turkiye)

PROJECTS

TUBITAK 1001 (Scolarship student)	Climate effects on activity patterns and trophic interactions of <i>Myotis myotis</i> (Greater mouse-eared bat) (Project code: 121Z307)
 TUBITAK 1002 (Thesis project) 	Comparison of pollinator insect diversity in common and rare plant species growing in marl habitats via eDNA metabarcoding (Project code: 124Z153)
 Self-funding from the Functional Ecology Laboratory's Resources 	Investigating the Relationship Between Floral Traits and Pollinator Composition and Diversity in a Central Anatolian Steppe Community
 Self-funding from the Functional Ecology Laboratory's Resources 	Effects of Habitat and Methodological Variations on Ground-dwelling Insect Community: A Case Study from Hacettepe University Beytepe Campus

FIELDWORKS

	Determining the status of resilience/resistence of woody plants in different vegetation types on Bozcaada and Gokçeada
10/20/2024- 11/04/2024	Methods: Quadrat sampling, observation of plant diversity and abundance, Braun-Blanquet survey method, measurement of plant length, measurements of plant functional characters which are related to resilience and resistance (Leaf area, leaf thickness, specific leaf area (SLA), capability of leaf water content etc.).
	Location: Gokceada and Bozcaada/Çanakkale/Turkiye
09/17/2024	
09/19/2024	<u>Project:</u> Effects of Habitat and Methodological Variations on Ground-dwelling Insect Community: A Case Study from Hacettepe University Beytepe Campus
09/26/2024	
10/03/2024	Method: Insect sampling by using pitfall traps.
10/10/2024	
17/10/2024	
06/29/2024	
07/03/2024	
07/03/2024	Dusingty Investigating the Deletionship Detuces Florel Traits and Dellinster
07/08/2024	<u>Project:</u> Investigating the Relationship Between Floral Traits and Pollinator Composition and Diversity in a Central Anatolian Steppe Community
07/10/2024	Mathada Magayyayaya at ayyaya fi ayal fi wati ayal tugita (a atal layath ya tal aya
07/40/0004	Methods: Measurements of several floral functional traits (petal length, petal area,
07/12/2024	floral wide, plant height etc.), pollinator observation and sampling.
07/13/2024	
07/15/2024	Location: Ankara, Turkiye
07/16/2024	<u>Location.</u> / tilkara, Tarkiyo
0771072021	
08/06/2024	
06/12/2024	Second fieldwork season for master's thesis project
06/13/2024	
	<u>Project:</u> Comparison of pollinator insect diversity in common and rare plant species
06/15/2024	growing in marl habitats via eDNA metabarcoding
06/16/2024	
	Method: Flower sampling from plant species that distribute in marly steppes, insect
06/26/2024	pollinator observation and sampling.
06/27/2024	
	Location: Eskisehir, Turkiye
05/29/2024	
06/01/2024	
06/04/2024	Fieldworks for comprehensive research about plant aboveground and belowground functional traits and their interaction with each other in Anatolian
06/20/2024	steppes that have different characteristics.
06/21/2024	
06/22/2024	
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10/02/2023- 10/07/2023	Fieldwork for a project that collaborated with Izmir Metropolitan Municipality
10/0//2020	Project: Ecological assessment of forests and scrublands exposed to fire in Izmir
	and determination of ecosystem restoration levels
	Location: Cesme, Izmir (Turkiye / Mediterranean ecosystem)
	Methods: Quadrat sampling, observation of plant diversity and abundance, Braun-
	Blanquet survey method, measurement of plant length, measurements of plant
	functional characters which are related to flammability.
08/08/2023	Seed sampling from plant species of Central Anatolian steppe
	Project: Investigating the possible effects of climate change on the Central
	Anatolian steppe plants with physio-ecological approaches (TUBITAK 1001)
	Anatotian steppe plants with physic coological approaches (10017AR 1001)
	Location: Kırıkkale, Kırşehir, Nevşehir, Nigde (Turkiye)
07/10/2023	Fieldwork for master's thesis project
07/15/2023	Project: Comparison of pollinator insect diversity in common and rare plant species
	growing in marl habitats via eDNA metabarcoding
	Method: Flower sampling from plant species that distribute in marly steppes.
	- to the company of the property of the company of
	Location: Eskisehir, Turkiye
06/26/2022	
06/27/2022	
00/05/0000	Insect sampling to obtain biodiversity of different habitats that are found in nearly a
08/05/2022	cave
09/17/2022	
09/18/2022	Project: Climate effects on activity patterns and trophic interactions of <i>Myotis</i>
	myotis (Greater mouse-eared bat)
10/22/2022	
10/23/2022	
	Method: Insect sampling by using pitfall traps.
04/13/2023	
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05/00/0000	Lacation, Continue Touting
05/20/2023	Location: Cankırı, Turkiye
05/20/2023 05/21/2023	Location: Cankırı, Turkiye
05/21/2023	Location: Cankırı, Turkiye
	Location: Cankırı, Turkiye Fieldwork for conservation of marly and gypsum habitats in Central Anatolian
05/21/2023 06/24/2023	
05/21/2023 06/24/2023	Fieldwork for conservation of marly and gypsum habitats in Central Anatolian steppes (Nature Research Society)
05/21/2023 06/24/2023 09/29/2022	Fieldwork for conservation of marly and gypsum habitats in Central Anatolian
05/21/2023 06/24/2023 09/29/2022	Fieldwork for conservation of marly and gypsum habitats in Central Anatolian steppes (Nature Research Society)

SEMINAR

- 1st International Forensic Biology & Genetics Congress (November 27-28, 2014; Ankara/Turkiye)
- 1st International Congress And Workshop of Forensic Toxicology (November 29-30, 2014; Ankara/Turkiye)
- International Congress of Anthropological Sciences ICAS2015 (April 9-11, 2015; Ankara/Turkiye)
- International ITU Molecular Biology And Genetics Student Congress'15 (October 2-4, 2015; Istanbul/Turkiye)
- International Cofactor Life Sciences Congress (ICLS) (November 21-22, 2015; Istanbul/Turkiye)
- XII IUGEN International Molecular Biology and Genetics Students' Winter School (March 6-8, 2015; Istanbul/Turkiye) **ORGANIZATION COMMITTEE**
- XIII IUGEN International Molecular Biology and Genetics Students' Winter School (March 4-6, 2016; Istanbul/Turkiye) **ORGANIZATION COMMITTEE**
- XIV IUGEN International Molecular Biology and Genetics Students' Winter School (March 3-5, 2017; Istanbul/Turkiye) **ORGANIZATION COMMITTEE**
- Ecology and Evolutionary Biology Symposium- EEBST 2023 (July 17-19, 2023; İstanbul University, İstanbul, Turkiye)
- Charette of Conservation of Pollinator Diversity for Enhanced Climate Change Resilience (ICARDA Project of Agriculture with Alternative Pollinators) (04/26/2023; Ankara/Turkiye)
- Ecology and Evolutionary Biology Symposium- EEBST 2024 (07/23-25/2024; Çanakkale On Sekiz Mart University, Çanakkale, Turkiye)
- Evolutionary Genomics Summer School (07/29-08/02/2024; Ankara/Turkiye)

REFERENCES

Prof. Dr. Çağatay Tavşanoğlu	Hacettepe University, Department of Biology, Division of Ecology
	E-mail: ctavsan@hacettepe.edu.tr
Prof. Dr. Emre Keskin	Ankara University, Evolutionary Genetics Laboratory, Department of Fisheries and Aquaculture
	E-mail: Emre.Keskin@ankara.edu.tr
Asst. Prof. Dr. Çağatay Tarhan	Istanbul University, Department of Molecular Biology and Genetics
	E-mail: cagatay.tarhan@istanbul.edu.tr