

RESEARCH INTERESTS

Ecology and evolution, conservation biology, ecosystem management, climate change, citizen science, science education

EDUCATION

MSc, Biology

Middle East Technical University, Ankara, Turkey (GPA: 3.48/4.0) 2015-

Relevant Coursework: Shallow lake ecology, evolutionary ecology, geographic information system (GIS), Hydroclimatology, Applied Time Series Analysis, Advanced Field Ecology, R programming

Thesis Title: Impact of extreme meteorological events on carbon cycle of Lake Eymir using real-time automatic lake observation station

BSc, Biology

Middle East Technical University, Ankara, Turkey (CGPA: 3.17/ 4.0) 2010-2015

Relevant Coursework: Ecology, evolution, molecular biology, genetics, applied ecology, freshwater ecology, instrumental techniques in freshwater, ecology of major ecosystems, conservation biology, principles and approaches of ecology in planning, biometry

EXPERIENCE

Researcher 2015- today

Biyans Biological Products R&D Con. Ind. Ltd. Sti.

- Çubuk - Karagöl, EKOLAKE Benthic Barrier System for Lake Management
 - Field work and Scientific Reporting for government
- Science camp for students (*TUBİTAK 4004*)
 - Ecosystems based learning in Kızılcahamam - Çamlıdere geopark
- Science Festival - Voyage of science project (*TUBİTAK 4007*)
 - Close touch with nature: Seeds, pollen and parts of plants

Research assistant 2015-2017

TUBİTAK COST Action 114Y415: Impact of extreme climatic events and environmental variables on metabolism and phytoplankton biomass of Lake Eymir by using automatic real time lake observation station

- Biweekly monitoring of Lake Eymir and Lake Mogan
- Calibration and maintenance of the high-frequency sonde
- Data management and preprocessing
- Estimation of lake metabolism and assessment of carbon cycling
- Water chemistry analysis
- Citizen science and curriculum design for students

Intern summer 2014

Copenhagen University - Marine Biology Section

- Effect of environmental parameters on sex determination of *Tripedalia cystophora*
- Functions of spermatozeugmata in *Copula sivickisi*

Intern summer 2013

DEKAMER- Sea Turtle Research Rescue and Rehabilitation Centre

- Conservation program for *Caretta caretta* and *Chelonia mydas*: field work and rehabilitation

Intern summer 2012

METU Institute of Marine Science

- Mediterranean fish ecology and conservation program for *Monachus monachus*: field work and fish sampling

COMPUTER SKILLS

Microsoft Office Programs, R Programing, TNTmips, Corel X5, Final Cut Pro, Adobe Premier Pro, Condes8, Sigmaplot

LANGUAGE SKILLS

Turkish: Native

English: Fluent (TOEFL: 90)

German: A1

LABORATORY SKILLS

Water chemistry analysis, DNA isolation, PCR, cloning and culturing techniques, transmission electron microscopy (TEM)

HONOUR AWARDS

- SIL (International Limnology Conference) Wetzel Award, Torino Italy 2016
- GCIP Turkey (Global Cleantech Innovation Program), Special Environmental Award 2015

PUBLICATIONS

Journal articles

- Garm, A, lebouvier, M & **Tolunay, D.**,2015. Mating in the box jellfish *Copula sivickisi*: Novel function of cnidocytes. Journal of Morphology, 276(9), 1055-1064.

Oral Presentations

- **Tolunay D.**, Çağan A. S., Karakaya N., Ögel R. D., Evrendilek F., Beklioğlu M., SEFS (Symposium for European Fresh Water Sciences), Olomouc- Czech Republic, 2017. Assessment of changes in metabolism of Lake Eymir with environmental variables using automated high frequency data
- **Tolunay D.**, Karakaya N., Evrendilek F., Beklioğlu M. Eymir Conferences, Ankara-Turkey, 2016. High Frequency Automated Systems and Application for Lake Eymir
- **Tolunay D.**, Çağan A. S., Karakaya N., Ögel R. D., Evrendilek F., Beklioğlu M. SIL (International Limnology Conference), Torino-Italy, 2016. Impact of Extreme Wind Events on Metabolism of Lake Eymir Using Real-time Automatic Lake Observation Station
- **Tolunay D.**, Çağan A. S., Karakaya N., Ögel R. D., Evrendilek F., Beklioğlu M. NETLAKE Citizen Science Workshop, Brno- Czech Republic, 2016. Impact of extreme climatic events and environmental variables on metabolism and phytoplankton biomass of Lake Eymir by using automatic real time lake observation station
- **Tolunay D.**, Çağan A. S., Karakaya N., Ögel R. D., Evrendilek F., Beklioğlu M. 7. UÇEK (National Student Conference on Environmental Science and Ecology) Ankara-Turkey, 2016. Impact of extreme climatic events on metabolism of Lake Eymir

Poster Presentation

- **Tolunay D.**, Çağan A. S., Karakaya N., Ögel R. D., Evrendilek F., Beklioğlu M. 3rd Ecology and Evolutionary Biology Symposium, Ankara-Turkey, 2016. Assessing the Impact of Environmental Variables Together with a Short Extreme Wind Event on Metabolism of Lake Eymir Using High Frequency Data

EXTRACURRICULAR ACTIVITIES

- Orienteering
- Modern dance and Classical ballet
- Theatre and Film Production