



Özgür Yüksel

M.Sc.

My passion for exploring the nature and understanding my place within it drives me as a dedicated student of natural sciences.

With the support of my loving family and outstanding teachers,

I am endlessly intrigued and motivated to pursue my interests...

Expertise

Genetics & Bioengineering

Biotechnology

Evolutionary Game Theory

Eco-Evolutionary Dynamics

Work Experience

2016 Summer

GENETIKS Disease Diagnosis

Center | Istanbul

**Internship at Molecular Genetics
Laboratory**

2013-2015

Riot Games | Istanbul

Professional E-Sports Player

Certifications

Duolingo English Certificate

Advanced, Score 135

Driving License

Shodan in Aikido, Certified by

Hombu Dojo Tokyo, Japan

Contact



ozguryuksel@live.com



[o-yuksel.github.io](https://github.com/o-yuksel)



github.com/o-yuksel

Academic Experience

2018 July - 2021 December

Yeditepe University | Istanbul

Biotechnology MSc

I conducted a study on the eco-evolutionary dynamics of microbial populations in partnership with the *Systems Biology and Bioinformatics group*. I successfully defended my thesis, "Game-Theoretical Analysis of Cooperation and Cheating in Lipase-Producing *Yarrowia lipolytica* Subcultures" [[Link](#)]. Where I have constructed a common goods game and devised a method for analyzing the evolutionary pressures in fermentation systems.

2012 September - 2017 February

Yeditepe University | Istanbul

Genetics and Bioengineering BSc

I have been introduced to evolutionary games by Dr. Emrah Nikerel. For my Bsc. project we have constructed a lattice game in combination with Lewis signaling theory to interpret the mechanisms of communication within biofilm community. In this project, I created both spatial stochastic and non-spatial deterministic models to represent electrical signaling between Interior (Sender) and Peripheral (Receiver) bacteria in a biofilm community.

2007 September - 2011 June

Istek Acıbadem High School | Istanbul

High School of Science

Publications & Presentations

Pending Publication [[Preprint](#)]

Yuksel, O. & Nikerel, E. Game Theoretical Analysis of Cooperation and Cheating Among Lipase Producing *Candida rugosa* Sub-Cultures

2022 Sept - Oral Presentation at Ecology and Evolutionary Biology Symposium

Middle East Technical University | Ankara

Yuksel, O. (2022) Game theoretical analysis of cooperation and cheating among lipase producing *Yarrowia lipolytica* sub-cultures.

2019 June - Poster Presentation at Health Informatics and Bioinformatics Symposium

Biomedicine and Genome Center | Izmir

Yuksel, O., & Nikerel, E. (2019) Honesty in Communication - Game Theoretical Analysis of Bacterial Signaling

Interests

Depth Psychology

Philosophy of Mind

Meditation & Pranayama

Competitive E-sports

Running

Aikido

Online Courses

○ 2023

University of Sydney | Coursera

Introduction to Calculus

○ 2023 May

Sante Fe Institute | Complexity Explorer

Dynamical Systems and Chaos

○ 2022 September

Georgia Tech | Udacity

Reinforcement Learning

○ 2022 March

Stanford | Coursera

Machine Learning