

# Zehra Nur Özbay– Curriculum Vitae

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	Ege University
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<b>Nationality</b>	Turkish

(last update: February 2026)

## Education

- 2023- now** **PhD**, Information Technologies - International Computer Institute, Ege University, Izmir  
**Advisor** Prof. Dr. Mehmet Emin Dalkılıç  
**GPA:** 4.00/4.00
- 2019-2023** MSc, Information Technologies, - International Computer Institute, Ege University, Izmir  
**Advisor** Prof. Dr. Mehmet Emin Dalkılıç  
**Thesis:** *A Study on Improving Performance in Deep Packet Inspection Tools*  
**GPA:** 3.93/4.00
- 2013-2015** MSc, Mathematics, - Gebze Technical University, Kocaeli  
**Advisor** Prof. Dr. Sibel Özkan  
**Thesis:** *2-factorization of Complete Equipartite Graphs with Four and Eight Cycles*  
**GPA:** 3.64/4.00
- 2008-2013** BSc, Mathematics (100% English), - Dokuz Eylül University, Izmir  
**GPA:** 3.41/4.00

## Published papers

- 2015** Z. N. Özbay ve M. E. Dalkılıç, "nDPI Derin Paket İnceleme Aracı Üzerinde Bir Çalışma"  
TBV-BBMD, c. 16, sy. 2, ss. 137–146, 2023, doi: 10.54525/tbbmd.1253700.

## Projects

- 2013-2015** **Cycle Decompositions of Graphs**, Scholarship Recipient  
*TUBITAK-1001 Project @ Gebze Technical University*

## Conferences and Workshops Attended

- July.2020** Yapay Öğrenme Yaz Okulu, Bilkent University
- May.2020** Uzaktan Eğitim, İş ve Kariyer- 5N1K-Çevrimiçi Konferansı, Muğla Sıtkı Koçman University
- Dec.2014** İstanbul Discrete Mathematics Meetings, Boğaziçi University

**Oct.2014** Workshop on Graph Theory and Its Applications IV, Boğaziçi University

## Work experience

**Mar.2020 - current** Ege University, Izmir  
*Research Assistant*

**Sep.2016 - Jun.2017** Republic of Türkiye Ministry of National Education  
*Math teacher in various middle schools*

## Teaching experience

**25-26 Spring** Ege University, International Computer Institute  
*Teaching Assistants in Computer Graphics, Network Security, Machine Learning*

**25-26 Spring** Ege University, International Computer Institute  
*Teaching Assistants in Cryptosystems and Cryptoprotocols, Game Theory,  
Object Oriented Programming,  
Discrete Structures for Computer Science*

**24-25 Spring** Ege University, International Computer Institute  
*Teaching Assistants in Computer Graphics, Network Security*

**24-25 Fall** Ege University, International Computer Institute  
*Teaching Assistants in Cryptosystems and Cryptoprotocols, Game Theory,  
Object Oriented Programming*

**23-24 Spring** Ege University, International Computer Institute  
*Teaching Assistants in Computer Graphics, Network Security*

**23-24 Fall** Ege University, International Computer Institute  
*Teaching Assistants in Cryptosystems and Cryptoprotocols  
Data Structures and Algorithms*

**22-23 Spring** Ege University, International Computer Institute  
*Teaching Assistants in Computer Graphics, Operating Systems*

**22-23** Ege University, International Computer Institute  
**Fall** *Teaching Assistants in Cryptosystems and Cryptoprotocols*  
*Data Structures and Algorithms, Computer Organization*

**21-22** Ege University, International Computer Institute  
**Spring** *Teaching Assistants in Computer Graphics, Operating Systems*

**21-22** Ege University, International Computer Institute  
**Fall** *Teaching Assistants in Computer Organization, Probability*

**20-21** Ege University, International Computer Institute  
**Fall** *Teaching Assistants in Computer Organization, Probability*

## Certificates

**Feb.2026** **Structuring Machine Learning Projects**  
Cert Link  
**Platform:** DeepLearning.AI

**Jan.2026** **Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization**  
Cert Link  
**Platform:** DeepLearning.AI

**Dec.2025** **Neural Networks and Deep Learning**  
Cert Link  
**Platform:** DeepLearning.AI

**Oct.2024** **Complete A.I. & Machine Learning, Data Science Bootcamp**  
Cert Link  
**Platform:** ZTM Academy via Udemy

**Jul.2022** **Selenium Webdriver with Python from Scratch + Frameworks**  
Cert Link  
**Platform:** Rahul Shetty Academy via Udemy

**Jun.2016** **Pedagogical Formation Training Certificate**  
**Location:** Ege University Faculty of Education

## Technical Skills

**Programming Languages:** C/C++, Java, Python, TypeScript, JavaScript

**Web Development:** HTML, CSS, Bootstrap

**Back-End Development:** Node.js

**Frameworks:** Angular, Spring Boot, Express, Selenium Web Driver

**Typesetting and Documentation:** LaTeX

## Exam Scores

**ALES:** 91.49/100 (*Ranked 562/332,588; National graduate entrance exam*)

**YDS:** 91.25/100 (*National foreign language proficiency exam*)

**IELTS:** 7.0 (Overall)

## Volunteer Works

“**Don’t Throw It Away — Donate It**” Electronic Waste Collection Initiative

## Referees

Available upon request.