

# Zehra Nur Özbay– Curriculum Vitae

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International Computer Institute  
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**Nationality** 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
- 2009-2013** **BSc**, Mathematics (100% English), - Dokuz Eylul 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 -**      Ege University, Izmir  
**current**        *Research Assistant*

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

## Teaching experience

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

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

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

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

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

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

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

<b>22-23 Fall</b>	Ege University, International Computer Institute <i>Teaching Assistants in Cryptosystems and Cryptoprotocols Data Structures and Algorithms, Computer Organization</i>
<b>21-22 Spring</b>	Ege University, International Computer Institute <i>Teaching Assistants in Computer Graphics, Operating Systems</i>
<b>21-22 Fall</b>	Ege University, International Computer Institute <i>Teaching Assistants in Computer Organization, Probability</i>
<b>20-21 Fall</b>	Ege University, International Computer Institute <i>Teaching Assistants in Computer Organization, Probability</i>

## Certificates

<b>Feb.2026</b>	<b>Structuring Machine Learning Projects</b> Cert Link <b>Platform:</b> DeepLearning.AI
<b>Jan.2026</b>	<b>Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization</b> Cert Link <b>Platform:</b> DeepLearning.AI
<b>Dec.2025</b>	<b>Neural Networks and Deep Learning</b> Cert Link <b>Platform:</b> DeepLearning.AI
<b>Oct.2024</b>	<b>Complete A.I. &amp; Machine Learning, Data Science Bootcamp</b> Cert Link <b>Platform:</b> ZTM Academy via Udemy
<b>Jul.2022</b>	<b>Selenium Webdriver with Python from Scratch + Frameworks</b> Cert Link <b>Platform:</b> Rahul Shetty Academy via Udemy
<b>Jun.2016</b>	<b>Pedagogical Formation Training Certificate</b> <b>Location:</b> 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.