

GÜLÇİN BAYKAL CAN

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EDUCATION

- Ph.D. Istanbul Technical University** Istanbul, Turkey 📍 📅 2020 ▶ 2024
Department of Computer Engineering, GPA: 4.00/4.00
Thesis Title: Codebook Learning: Challenges and Applications in Image Representation Learning
Advisor: Prof. Dr. Gözde Ünal
Courses: Deep Reinforcement Learning, Data Mining, Causality, 3D Vision
- Guest Ph.D. University of Southern Denmark** Odense, Denmark 📍 📅 2024
Department of Mathematics and Computer Science
Granted by **TUBITAK 2214-A** - International Research Fellowship Programme for PhD Students
Project Title: Novel Probabilistic Inference Algorithms for Deep Generative Models
Advisor: Assoc. Prof. Melih Kandemir
- M.Sc. Istanbul Technical University** Istanbul, Turkey 📍 📅 2018 ▶ 2020
Department of Computer Engineering, GPA: 3.94/4.00
Thesis Title: DeshuffleGAN: Self-Supervised Learning for Generative Adversarial Networks
Advisor: Prof. Dr. Gözde Ünal
Courses: Deep Learning, Machine Learning, Artificial Intelligence, Graph Theory and Algorithms, Engineering Maths
- B.Sc. Istanbul Technical University** Istanbul, Turkey 📍 📅 2014 ▶ 2018
Department of Computer Engineering, GPA: 3.59/4.00, Ranked #2 in graduation.
Thesis Title: Turkish Lira Banknotes Classification for Visually Impaired People with Deep Learning
Advisor: Prof. Dr. Gözde Ünal
Courses: Numerical Methods, Prob. & Stats., Linear Algebra, Computer Vision, Learning from Data, Artificial Intelligence

WORK EXPERIENCE

- Postdoctoral Researcher · IMADA · SDU** 📍 📅 2025 ▶ Now
Research topics: Reinforcement Learning, Visual Control
- Research Assistant · ITU Vision Lab · ITU** 📍 📅 2020 ▶ 2024
Work as a **Google DeepMind Scholar** in ITU Vision Lab. Volunteer Teaching Assistant of Deep Learning course of ITU Computer Engineering Graduate Program.
- Teaching Assistant · ITU Computer Engineering Department · ITU** 📍 📅 2019 ▶ 2020
Teaching Assistant of Introduction to Information Systems, System Programming, Numerical Methods for CE, Functional Programming
- Research Assistant · ITU Vision Lab · ITU** 📍 📅 2018 ▶ 2019
Work as a **Turkcell Scholar** in ITU Vision Lab.

PUBLICATIONS

Available in [Google Scholar](#).

SKILLS

</> Programming Languages: Python · C/C++ · Haskell · SQL · HTML · CSS
📦 Libraries: PyTorch · OpenCV · Matplotlib · NumPy · Pandas · Plotly · Scikit-learn · SciPy
🗣 Languages: Turkish (*Native*) · English (*Advanced*) · Japanese (*Beginner*)

HONORS AND AWARDS

Selected to attend Machine Learning Summer School 2024 in Japan.	📅 2024
Granted by TUBITAK 2214-A International Research Fellowship Program for PhD Students.	📅 2023
Selected to attend Mediterranean Machine Learning Summer School 2023 in Greece.	📅 2023
Granted by ITU-Google DeepMind Scholarship Program.	📅 2020 ▶ Now
Granted by Turkcell-ITU Researcher Funding Program.	📅 2018 ▶ 2019
Graduated with Honors in 2nd place from ITU Computer Engineering Department.	📅 2018
Istanbul Technical University Undergraduate Honor Scholarship.	📅 2014 ▶ 2018
Granted by Turkish Education Foundation (TEV) High Merit Scholarship.	📅 2014 ▶ 2018

OUTREACH AND MENTORING

Kendin İçin Kodla	📅 2019 ▶ Now
<i>Content Creator · Workshop Instructor</i>	
Kendin İçin Kodla aims to encourage high school-level female students in Turkey to pursue higher education and careers in the field of IT and CS. We focus on teaching problem solving, design, and implementation skills rather than just coding to students in our voluntary project. Through free, two-day workshops in diverse IT fields, we aim to help students explore their abilities and interests.	
ITU Vision Lab	📅 2018 ▶ Now
<i>Supervisor</i>	
Supervised various undergraduate projects including:	
· Pose guided image generation using GANs · Signature detection and verification using Deep Learning · Image enhancement using Deep Learning · Textile pattern generation using Stable Diffusion	

PROFESSIONAL ACTIVITIES

Reviewer for Asian Conference on Machine Learning (ACML)	📅 2023 ▶ 2024
Reviewer for Conference on Signal Processing and Communications Applications (SIU)	📅 2022 ▶ 2023

REFERENCES

Available upon request.