

BATUHAN CENGİZ

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EDUCATION

- Ph.D. Istanbul Technical University** · Istanbul, Turkey 📍 📅 2025 ▶ Now
Department of Computer Engineering
- M.Sc. Istanbul Technical University** · Istanbul, Turkey 📍 📅 2022 ▶ 2025
Department of Computer Engineering, GPA: 3.94/4.00
Thesis: Towards robustness in 3D point cloud analysis: Novel approaches to adversarial attacks and defences
Advisor: Prof. Dr. Gözde Ünal
Courses: Deep Learning, 3D Vision, Deep Reinforcement Learning, Differential Geometry, Convex Optimization
- B.Sc. Istanbul Technical University** · Istanbul, Turkey 📍 📅 2016 ▶ 2021
Department of Electronics and Communication Engineering, GPA: 3.23/4.00
Thesis: 3d u-netr: Low dose computed tomography reconstruction via deep learning and 3 dimensional convolutions
Advisor: Assoc. Prof. Dr. Isa Yildirim
Courses: Numerical Methods, Prob. & Stats., Linear Algebra, Signals & Systems, Machine Learning for Signal Processing

WORK EXPERIENCE

- Teaching Assistant · ITU AI & Data Engineering Department · ITU** 📍 📅 2023 ▶ Present
Teaching Assistant of Deep Learning, Computer Vision, Probability & Statistics, Numerical Methods for CE
- Research Assistant · ITU Vision Lab · ITU** 📍 📅 2022 ▶ 2023
Worked as a **Turkcell Scholar** in ITU Vision Lab.
- RF Optimization Intern · P.I. Works, Inc. · Teknopark İstanbul** 📍 📅 2021 May ▶ Sept
Worked as part of the Central Optimization Team in the Turk Telekom Project.

PUBLICATIONS


- **B. Cengiz**, H. F. Karagoz, and T. Kumbasar, "Conformalized High-Density Quantile Regression via Dynamic Prototypes-based Probability Density Estimation", in *Arxiv*, 2024.
- **B. Cengiz**, M. Gülsen, Y. H. Sahin and G. Unal, "Epsilon-Mesh Attack: A Surface-based Adversarial Point Cloud Attack for Facial Expression Recognition," in *2024 IEEE 18th International Conference on Automatic Face and Gesture Recognition (FG)*, 2024.
- M. Gulsen, **B. Cengiz**, Y. H. Sahin, G. Unal, "PCLD: Point Cloud Layerwise Diffusion for Adversarial Purification," in *6th Mediterranean Conference on Pattern Recognition and Artificial Intelligence (MedPRAI)*, 2024.
- D. Gunduzalp*, **B. Cengiz***, M. O. Unal and I. Yildirim, "3d u-netr: Low dose computed tomography reconstruction via deep learning and 3 dimensional convolutions," in *Arxiv*, 2021.


SKILLS

</> Programming Languages: Python · C/C++ · MATLAB · SQL · HTML/CSS/JS · Bash
📦 Libraries/Frameworks: PyTorch · NumPy · Matplotlib · OpenCV · Open3D · SLURM
🗣 Languages: Turkish (*Native*) · English (*Advanced*) · German (*Beginner*)

HONORS AND AWARDS

Granted by **TUBITAK 2210-A International Research Fellowship Program for MSc Students**.  2022 ▶ 2024

Granted by **Turkcell-ITU Researcher Funding Program**.  2022 ▶ 2023

Achieved **1st place** at **BEST Istanbul Datathon 2021** as team 'NoRush'.  2021

REFERENCES

Available upon request.