BATUHAN CENGİZ

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EDUCATION

M.Sc. Istanbul Technical University Istanbul, Turkey 2022 ▸ 2024

Department of Computer Engineering, GPA: 3.94/4.00

Thesis: Adversarial Attacks and Defenses on 3d Point Clouds (*ongoing*) *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**, 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 *Arxiv*, 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

Libraries: PyTorch · Jax · OpenCV · Open3D · Matplotlib · NumPy · Pandas· Scikit-learn · SciPy

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.