

# 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-net: 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-net: Low dose computed tomography reconstruction via deep learning and 3 dimensional convolutions," in *Arxiv*, 2021.

## SKILLS

📄 **Programming Languages:** Python · C/C++ · MATLAB · SQL · Bash · Slurm

📚 **Libraries:** PyTorch · NumPy · Matplotlib · OpenCV · Open3D

🗣️ **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 **1<sup>st</sup> place** at **BEST Istanbul Datathon 2021** as team 'NoRush'. 📅 2021

## REFERENCES

Available upon request.