Yusuf **Dalva**

Research & Teaching Assistant · Ph.D. Student

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Education

Ph.D. in Computer Science, Virginia Tech, Blacksburg, VA, United States   *Aug. 2023 - June 2028 (Expected)*
- Research focus: Controllability in diffusion models
- Under the supervision of Pinar Yanardag
- Related coursework: Embodied AI, Learning-based Computer Vision

M.Sc. in Computer Engineering, Bilkent University   *Sep. 2020 - June 2023*
- Thesis topic: Image-to-image translation for face attribute editing with disentangled latent directions
- Under the supervision of Aysegul Dundar
- **Best Master Thesis Award** by IEEE Computer Society, Turkey Chapter
- Related coursework: Computer Vision, Deep Learning, Deep Generative Networks, Computer Graphics (CGPA: 4.00/4.00)
- Awarded **Department Scholarship** at the time of enrollment

B.Sc. in Computer Engineering, Bilkent University   *Sep. 2016 - June 2020*
- Graduation Project: DRIVision - Mobile-based Driving Assistance Solutions (**Data Science Award**)
- Related coursework: Object-Oriented Software Engineering, Algorithms, Operating Systems, Database Systems (CGPA: 3.67/4.00)
- Awarded **Merit Scholarship** in 2017, 2018, 2019

Publications

- **Y. Dalva**, H. Pehlivan, O. I. Hatipoglu, *et al.*, "Image-to-Image Translation with Disentangled Latent Vectors for Face Editing," in *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 2023

- **Y. Dalva**, S. F. Altındiş, H. Pehlivan, *et al.*, "Benchmarking the Robustness of Instance Segmentation Models," in *IEEE Transactions on Neural Networks and Learning Systems*, 2023

- **Y. Dalva**, S. F. Altındiş, and A. Dundar, "VecGAN: Image-to-Image Translation with Interpretable Latent Directions," in *European Conference on Computer Vision*, Springer, 2022, pp. 153–169

- H. Pehlivan, **Y. Dalva**, and A. Dundar, "StyleRes: Transforming the Residuals for Real Image Editing with StyleGAN," in *IEEE / CVF Computer Vision and Pattern Recognition Conference (CVPR)*, 2023

- S. F. Altındiş, A. Meriç, **Y. Dalva**, *et al.*, "Refining 3D Human Texture Estimation from a Single Image," in *IEEE Transactions on Pattern Analysis and Machine Intelligence (Under review)*, 2023

Experience

Teaching Assistant, Bilkent University   *Sep. 2020 - June 2023*
- Won **Outstanding Teaching Assistant** award in 2021, 2022, 2023
- Tutorials on **Google Colab** and **PyTorch**
- Courses assisted: **Introduction to Machine Learning**, Operating Systems, Computer Organization, **Algorithms and Programming I**

Software Engineer Intern, Atlassian, Opsgenie   *July. 2019 - September 2019*
- Part of Business Organization team
- Translating legacy records to Atlassian database
- Developed **AWS Lambdas** for subscription actions

Voluntary Work

IEEE Transactions on Neural Networks and Learning Systems

Reviewer   *2023*

IEEE/CAA Journal of Automatica Sinica

Reviewer   *2023*