

Department of Computer Engineering, Bilkent University, Ankara, Turkey

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# Summary.

M.Sc. student working on computer vision problems at Bilkent University. Currently interested in learning tasks leading to strong visual representations using deep neural networks, robustness enhancement of deep models, and generative models. Gives high value to teamwork, believing it is the basis for highly innovative ideas.

### **Education**

Bilkent University

Ankara, Turkey

M.Sc. IN COMPUTER SCIENCE

Sep. 2020 - June 2023 (Expected)

- Thesis topic: Facial image manipulation with convolutional neural networks
- Coursework Completed, CGPA: 4.00/4.00

Bilkent University

Ankara, Turkey

B.Sc. IN COMPUTER SCIENCE

Sep. 2016 - June 2020

- Graduation Project: DRIVision Mobile-based Driving Assistance Solutions
- · CGPA: 3.67/4.00

### **Publications**

#### **PUBLISHED**

• 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

#### **UNDER REVIEW**

- S. F. Altındiş, Y. Dalva, H. Pehlivan, et al., "Benchmarking the robustness of instance segmentation models," in *IEEE Transactions on Neural Networks and Learning Systems (Under Review)*, 2022
- H. Pehlivan, Y. Dalva, and A. Dundar, "Styleres: Transforming the residuals for real image editing with stylegan," in *The IEEE / CVF Computer Vision and Pattern Recognition Conference (In submission)*, 2022
- S. F. Altındiş, Y. Dalva, and A. Dundar, "Refining 3d human texture estimation from a single image," in *The IEEE / CVF Computer Vision and Pattern Recognition Conference (In submission)*, 2022

### IN PREPARATION

• Y. Dalva, H. Pehlivan, O. I. Hatipoglu, et al., "Face attribute editing with disentangled latent vectors," in *IEEE Transactions on Pattern Analysis* and Machine Intelligence (To be submitted), 2022

# Work Experience \_\_

Bilkent University

Ankara, Turkey

• Working as a research assistant under the supervision of Aysegul Dundar

- Working as a research assistant under the supervision of Aysegut Duric
   Conducting research focused on Computer Vision related problems
- Engaged in 4 research projects and led 2.

Bilkent University

Ankara, Turkey

TEACHING ASSISTANT

RESEARCH ASSISTANT

Sep. 2020 - Present

Sep. 2020 - Present

- Has worked as a teaching assistant for 5 semesters
- Responsible for preparation/grading of assignments and provided assistance to undergraduate students in various subjects
- Given tutorials about software tools such as Google Colab and PyTorch
- · Courses assisted: Introduction to Machine Learning, Operating Systems, Computer Organization, Algorithms and Programming I

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Opsgenie, Atlassian Ankara, Turkey

SOFTWARE ENGINEERING INTERN

- June 2019 Sep. 2019 • Employed in the Business Operations Department of product Opsgenie.
- Responsible for translating legacy records to Atlassian database
- Developed triggers related to subscription operations using AWS Lambdas

## Projects\_

#### MITIGATING GENDER BIAS IN CONTEXTUAL WORD EMBEDDINGS

Ongoing

- Attempting to eliminate the gender bias on contextual word embeddings
- · Introducing a novel fine-tuning stage, which attempts to debias the word embeddings produced by BERT model
- Currently at the development stage

DRIVISION May 2020

- Aiming to develop a mobile application that offers driving assistance services
- Project won Data Science Award at Bilkent University Graduation Project fair (CSFair 2020)
- Developed as a group of 5

# **Achievements, Honors & Awards**

2021, 2022	Outstanding Teaching Assistant
	Based on student votes, elected as one of the three most successful teaching assistants in the Department
	Computer Science of Bilkent University
2020	Department Scholarship
	Awarded a full scholarship by the Department of Computer Science of Bilkent University for M. Sc. studies
	due to high academic performance
2020	Data Science Award
	As one of the developers of graduation project DRIVision, won the award for the project that best uses Data
	Science
2018, 2019	Merit Scholarship
	Partial scholarship (60%) for B. Sc. studies has been awarded due to outstanding academic performance
2017	Merit Scholarship
	Partial scholarship (80%) for B. Sc. studies has been awarded due to outstanding academic performance

### **Conferences & Presentations**

#### **European Conference on Computer Vision**

Tel Aviv, Israel

of

POSTER PRESENTATION FOR THE PAPER: VECGAN: IMAGE-TO-IMAGE TRANSLATION WITH INTERPRETABLE LATENT DIRECTIONS

Sep. 2022

- Presented the paper in the event which attracted ~3500 researchers
- Awarded ECCV'22 DEI Travel Grant

### Skills\_

**Programming** Python, Java, JavaScript, C++, C, Bash, LaTeX **Data Handling** numpy, pandas, matplotlib, seaborn **Tools & Frameworks** Conda, Docker, PyTorch, Tensorflow, AWS Languages Turkish, English

NOVEMBER 15, 2022 YUSUF DALVA · RÉSUMÉ