Cagri **Gungor**

PH.D. STUDENT · COMPUTER VISION RESEARCHER

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Research Interests

Multimodality, Weakly-supervised Object Detection, Vision and Language, Sound, Depth, Generative Adversarial Networks, Affective Computing

Education

University of Pittsburgh — *Pittsburgh, United States*

PH.D. IN INTELLIGENT SYSTEMS PROGRAM - COMPUTER VISION - GPA: 3.9 — *Aug 2021 - Present*

- Advised by Prof. Adriana Kovashka

Bilkent University — *Ankara, Turkey*

B.S. IN COMPUTER SCIENCE AND ENGINEERING - GPA: 3.3 | TOP %10 IN CLASS — *Sept. 2016 - Jun 2021*

- Received full merit scholarship which is given to the students having exceptional success in the university entrance exam.

Research Experience

University of Pittsburgh (Computer Vision Group) — *Pittsburgh, United States*

GRADUATE STUDENT RESEARCHER — *Aug 2021 – Present*

- Working on multimodality (sound, text, depth, motion) for weakly supervised object detection.

Bilkent University — *Ankara, Turkey*

UNDERGRADUATE RESEARCH ASSISTANT AND INTERN — *Oct 2019 - Aug 2020*

- Worked on audio-visual emotion recognition by assessing the effect of end-to-end multimodality and temporal/modality level attentions in video analysis under the supervision of Prof. Hamdi Dibeklioglu.

Professional Experience

Lenovo — *Chicago, United States*

RESEARCH INTERN (PH.D.) — *Summer 2022*

- Conducted research with Lenovo research team on low-light image enhancement and image blurring including automatic data annotation/collection and algorithm design for use on Motorola (a Lenovo company) phones.

3DUniversum — *Amsterdam, Netherlands*

RESEARCH INTERN — *Summer 2020*

- Conducted research on visual emotion manipulation in the videos.
- Developed generative adversarial network to both manipulate emotion in 3D reconstructed faces and turning them into original frames.
- Worked on lips-sync problemy adding audio modality to the GAN pipeline to enhance consistency between frames.

OPLOG Operasyonal Logistics — *Ankara, Turkey*

DATA SCIENCE INTERN — *Summer 2019*

- Worked on an autonomous delivery robot project with AI team.
- Worked on Image Processing and Computer Vision projects (e.g., obstacle detection, Qr code angle calculation, Qr code decoding, semantic segmentation for Qr Code, etc.) using OpenCV, Keras, Tensorflow in Python.

Publications

Complementary cues from audio help combat noise in weakly-supervised object detection

Cagri Gungor and Adriana Kovashka

Accepted to IEEE/CVF Winter Conference on Applications of Computer Vision - **WACV 2023** [Paper]

Skills

Programming Languages: Python, Matlab/Octave, C/C++, Java, SQL

Libraries / Packages: PyTorch, TensorFlow, OpenCV, scikit-learn, NumPy, SciPy, pandas, spaCy