

Cagri Gungor

PH.D. STUDENT · COMPUTER VISION RESEARCHER

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Research Interests

I specialize in multimodal computer vision, integrating diverse sensory inputs—audio, language, depth, motion, and touch—to advance tasks such as object detection, video action recognition, domain generalization and image synthesis. My current research focus is multimodal generative AI exploring touch image synthesis with different conditional inputs using stable diffusion to investigate the complementary role of touch.

Education

University of Pittsburgh

PH.D. IN INTELLIGENT SYSTEMS PROGRAM - COMPUTER VISION

- Advised by Prof. Adriana Kovashka

Pittsburgh, United States

Aug 2021 - Nov 2025 (Expected)

Bilkent University

B.S. IN COMPUTER SCIENCE AND ENGINEERING - GPA: 3.3 | TOP %10 IN CLASS

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

Ankara, Turkey

Sept. 2016 - Jun 2021

Research Experience

University of Pittsburgh (Computer Vision Group)

GRADUATE STUDENT RESEARCHER

- Working on multimodal computer vision (with audio, text, depth, motion, and touch) to advance various tasks.

Pittsburgh, United States

Aug 2021 - Present

Bilkent University

UNDERGRADUATE RESEARCH ASSISTANT AND INTERN

- 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.

Ankara, Turkey

Oct 2019 - Aug 2020

Professional Experience

Dolby Laboratories

RESEARCH INTERN (PH.D.)

- Conducted audio-visual research on temporal activity localization and video summarization.

San Francisco, United States

Summer 2023

Lenovo

RESEARCH INTERN (PH.D.)

- 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.

Chicago, United States

Summer 2022

3DUiversum

RESEARCH INTERN

- Conducted research on visual emotion manipulation in the videos leveraging the audio to provide lips-sync.

Amsterdam, Netherlands

Summer 2020

Publications

Integrating Audio Narrations to Strengthen Domain Generalization in Multimodal First-Person Action Recognition

Cagri Gungor and Adriana Kovashka

Manuscript submitted - [[Paper](#)]

Enhancing Weakly-Supervised Object Detection on Static Images through (Hallucinated) Motion

Cagri Gungor and Adriana Kovashka

Manuscript submitted - [[Paper](#)]

Boosting Weakly Supervised Object Detection using Fusion and Priors from Hallucinated Depth

Cagri Gungor and Adriana Kovashka

2024 IEEE/CVF Winter Conference on Applications of Computer Vision - WACV 2024 [[Paper](#)]

Complementary Cues from Audio Help Combat Noise in Weakly-supervised Object Detection

Cagri Gungor and Adriana Kovashka

2023 IEEE/CVF Winter Conference on Applications of Computer Vision - WACV 2023 [[Paper](#)]

Skills and Activities

Technical Skills: Python, PyTorch, TensorFlow, Matlab, C/C++, Java, SQL

Academic Services: Member of review committee at AAAI 2024, CVPR 2024, ECCV 2023 and AAAI 2025