

# ANDREW BOND

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## Education

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### Koc University

2023 –

PhD Computer Science and Engineering, Focus: Deep Learning for Videos *Advisor: Assoc. Prof. Aykut Erdem*  
*CGPA: 3.72/4.0*

### Koc University

2019 – 2023

Bachelors in Computer Engineering, Minor in Mathematics, Track in Artificial Intelligence *CGPA: 3.55/4.0*

## Research Experience

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### Video AI Lab *Research Scientist Intern*

June 2024 – September 2024

↔ Jui-hsien Wang

*Adobe Research*

- Worked on the use of gaussian splatting for video representations.
- Paper submitted to CVPR2025. Can be found on ArXiv at the following link: <http://arxiv.org/abs/2501.04782>.

## Publications

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M. H. Ali, **Andrew Bond**, T. Birdal, D. Ceylan, L. Karacan, E. Erdem, and A. Erdem. Vidstyleode: Disentangled video editing via stylegan and neuralodes. *2023 IEEE/CVF International Conference on Computer Vision (ICCV)*, pages 7489–7500, 2023. URL <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=10376719>. In collaboration with Adobe London and Imperial College London.

A. Kara, F. M. Sofian, **Andrew Bond**, and G. G. Şahin. Gecturk: Grammatical error correction and detection dataset for turkish. In *International Joint Conference on Natural Language Processing*, 2023. URL <https://arxiv.org/pdf/2309.11346.pdf>.

**Andrew Bond** and Z. Dogan. Exploring the precise dynamics of single-layer gan models: Leveraging multi-feature discriminators for high-dimensional subspace learning. 2024. URL <https://arxiv.org/pdf/2411.00498.pdf>.

**Andrew Bond**, J.-H. Wang, L. Mai, E. Erdem, and A. Erdem. Gaussianvideo: Efficient video representation via hierarchical gaussian splatting. *arXiv*, 2025. URL <https://arxiv.org/abs/2501.04782>. Done while an intern at Adobe Research.

## Awards

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**Vehbi Koc Scholars** Awarded for outstanding GPA in a semester.

4 times

**Outstanding TA Award** Awarded to the top TAs in the university during a semester.

June 2024

## Technical Skills

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### Programming Languages

Python, C++, CUDA, Julia, Matlab

### Languages

English (Native), Turkish (Basic)

## Selected Course Work

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### Computer Science

Deep Unsupervised Learning  
Natural Language Processing  
Computational Imaging  
Intelligent User Interfaces  
Nonconvex Optimization for Machine Learning  
Reinforcement Learning

### Mathematics

Real Analysis  
Measure Theory  
Topology  
Abstract Algebra 1 & 2  
Cohomology on Manifolds  
Stochastic Models and their Applications