

Guy Yariv

Generative AI Researcher (Ph.D. candidate @ HUJI)

Short and engaging pitch about yourself.



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PUBLICATIONS

Publication Type

Diverse and Aligned Audio-to-Video Generation via Text-to-Video Model Adaptation

Author(s)

Guy Yariv, Itai Gat, Sagie Benaim, Lior Wolf, Idan Schwartz and Yossi Adi

09/2023

AAAI 2024

We leverage an existing text-to-video model and propose a lightweight adaptor to map the audio-representation to the input-representation expected by the video generation model. Project page: <https://pages.cs.huji.ac.il/adiyoss-lab/TempoTokens/>

Publication Type

AudioToken: Adaptation of Text-Conditioned Diffusion Models for Audio-to-Image Generation

Author(s)

Guy Yariv, Itai Gat, Lior Wolf, Yossi Adi and Idan Schwartz

05/23

Interspeech 2023

Presenting an effective method to adapt text-to-image models to audio input by mapping the audio signal into a token. Project page: <https://pages.cs.huji.ac.il/adiyoss-lab/AudioToken/>

Publication Type

Through-The-Mask: Mask-based Motion Trajectories for Image-to-Video Generation

Author(s)

Guy Yariv, Yuval Kirstain, Amit Zohar, Shelly Sheynin, Yaniv Taigman, Yossi Adi, Sagie Benaim, and Adam Polyak

11/2024

We propose a two-stage framework for image-to-video generation, introducing mask-based motion trajectories to capture object-level motion and semantics, using novel attention mechanisms for temporal and spatial consistency, achieving state-of-the-art results on challenging benchmarks.

Publication Type

Improving Visual Commonsense in Language Models via Multiple Image Generation

Author(s)

Guy Yariv, Idan Schwartz, Yossi Adi, Sagie Benaim

06/2024

We enhance the visual commonsense of language models by incorporating multiple predictions into a pre-trained language model's decision-making process. Project page: <https://pages.cs.huji.ac.il/adiyoss-lab/VLMIG/>

EDUCATION

PhD candidate - Computer Science

Hebrew University of Jerusalem

05/2024 - Present

Topic

- Generative multimodal systems

- Advisors: Dr. Yossi Adi, Dr. Sagie Benaim

M.Sc - Computer Science

Hebrew University of Jerusalem

10/2022 - 05/2024

Thesis

- Generative multimodal systems

- Advisor: Dr. Yossi Adi

GPA: 96

Bachelor's degree - Computer Science and Engineering Electrical

Hebrew University of Jerusalem

10/2018 - 08/2022

Final Project

- AI-Beat-Maker: Generating Hip-Hop beats out of given samples. Code: <https://github.com/guyyariv/AI-Beat-Maker>

GPA: 88

WORK EXPERIENCE

Research Scientist Intern

Meta AI

05/2024 - 12/2024

Tel-Aviv

Research Intern

Spot by NetApp

04/2022 - 05/2024

Tel Aviv

Spot by NetApp's cloud automation solution uses advanced analytics to continuously optimize cloud infrastructure resources.

Achievements/Tasks

- Developed data-driven algorithms leveraging cloud behavior patterns from thousands of customers.
- Actively contributed to the company's core system, focusing on decision-making algorithms and performance evaluation, including availability, efficiency, and cost-effectiveness.

Student Software Engineer

Placer.ai

04/2021 - 04/2022

Ramat Gan

Advanced foot traffic analytics platform

Achievements/Tasks

- Developed automation tests and processes on Placer's platform