

# Minho Park

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## Research Interest

I have a strong interest in the domain of generating synthetic data via generative models. Currently, my research is centered on improving the vision-language models by utilizing large-scale pre-trained models in the data-scarce settings.

### Keywords

- Synthetic data generation with generative models
- Generative models, especially diffusion models
- Data-scarce settings

## Education

### Korea Advanced Institute of Science and Technology (KAIST)

*Integrated Ph. D. in Artificial Intelligence, GPA: 4.00/4.3*

- Advisor: Jaegul Choo

### Daejeon, Republic of Korea

*Sep. 2021 - Present*

### Korea University

*B.S. in Electrical Engineering, GPA: 4.11/4.5*

### Seoul, Republic of Korea

*Mar. 2018 - Aug. 2021*

### Gyeonggi Science High School for the Gifted

### Suwon, Republic of Korea

*Mar. 2015 - Feb. 2018*

## Publications

### Under review

[U2]: **Minho Park**, Sunghyun Park, Jooyeol Yun, and Jaegul Choo. "Unlocking the Potential of Generated Datasets in Name-only Transfer of Vision-Language Models"

[U1]: Jeongho Kim, Gyojung Gu, **Minho Park**, Sunghyun Park, and Jaegul Choo "StableVITON: Learning Semantic Correspondence with Latent Diffusion Model for Virtual Try-On" [\[Paper\]](#) [\[Code\]](#) [\[Project Page\]](#)

### Conference Paper

[C2]: **Minho Park\***, Jooyeol Yun\*, Seunghwan Choi, and Jaegul Choo. "Learning to Generate Semantic Layouts for Higher Text-Image Correspondence in Text-to-Image Synthesis." *IEEE/CVF International Conference on Computer Vision (ICCV), 2023, Paris, France.* [\[Paper\]](#) [\[Code\]](#) [\[Project Page\]](#)

[C1]: Jooyeol Yun\*, Sanghyeon Lee\*, **Minho Park\***, and Jaegul Choo. "iColoriT: Towards Propagating Local Hint to the Right Region in Interactive Colorization by Leveraging Vision Transformer." *IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2023, Waikoloa, Hawaii.* [\[Paper\]](#) [\[Code\]](#) [\[Project Page\]](#)

## Work Experience

### Qualcomm AI Research

*Research Intern*

### Seoul, Republic of Korea

*Mar. 2024 - Present*

- Data generation with generative models

## Academic Activities

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**Conference reviewers:** CVPR'24

**Talks and Slides**.....

- Various Types of Diffusion Models [Slides]
- Segment Anything [Slides]
- Classification with Foundation Models [Slides]
- Consistency Models and BOOT [Slides]
- DDPM [Slides]

## Teaching Experience

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**AI Workshop Instructor**.....

**Deepnoid Tech Meet:** Various types of diffusion models, *Dec. 2023*.

**SKT Market Top AI:** Segment Anything, *Sep. 2023*.

**YearDream School:** Computer Vision, *Aug. 2023 - Sep. 2023*.

**AIGS Symposium:** Learning to Generate Semantic Layouts for Higher Text-Image Correspondence in Text-to-Image Synthesis, Oral session, *Aug. 2023*.

**SKT Market Top AI:** Classification with foundation models, *Jul. 2023*.

**Samsung-Elice Leader Digital Agility:** Tutoring deep learning, *Nov. 2022 - Nov. 2022*.

**Goorm K-Digital Training:** Linear Algebra, *Nov. 2022 - Nov. 2022*.

**Teaching Assistant**.....

**[AI618] Generative and Unsupervised Deep Learning:** KAIST, *Sep. 2023 - Dec. 2023*.

**DAVIAN basic study:** Linear Algebra, *Jul. 2023 - Aug. 2023*.

**SK ML Engineer Course:** Computer Vision, *Jun. 2023 - Jul 2023*.

**DAVIAN basic study:** Computer Vision, *Jan. 2023 - Feb. 2023*.

**DAVIAN basic study:** Computer Vision, *Jul. 2022 - Aug. 2022*.

**Samsung-SNU AI Expert Course:** Linear Algebra, *May. 2022*

## Reference

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**Jaegul Choo**  
*Associate Professor*

**KAIST**  
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