





# SONG PARK

 Google Scholar  Github

 <https://suos.github.io>  [song.pxxk@gmail.com](mailto:song.pxxk@gmail.com)

## RESEARCH INTERESTS

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I am interested in understanding how deep neural networks (DNNs) perceive, represent, and process diverse visual concepts—such as mood, emotion, style, and semantics—and their impact on decision-making. My research aims to uncover the underlying mechanisms behind these representations to develop more structured and expressive visual features. By enhancing the interpretability and robustness of learned representations, I seek to improve performance in real-world downstream tasks, including scene understanding, affective computing, and content generation.

To be specific, I have focused on the following research areas:

- **Text-to-Image Generative Models**
- **Visual Representation Learning**

## EDUCATION

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<b>M.S. and Ph.D.</b> in Integrated Technology <i>Advisor: Prof. Hyunjung Shim</i> Yonsei University	Mar 2016 - Feb 2022
<b>B.S.</b> in Integrated Technology Yonsei University	Mar 2013 - Feb 2016

## PUBLICATIONS

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\* indicates equal contribution.

1. **Song Park\***, Sanghyuk Chun\*, Byeongho Heo, Dongyoon Han, “*DNNs May Determine Major Properties of Their Outputs Early, with Timing Possibly Driven by Bias*”, arXiv preprint arXiv:2502.08167.
2. Sanghyuk Chun, Wonjae Kim, **Song Park**, Sangdoo Yun, “*Probabilistic Language-Image Pre-Training*”, International Conference on Learning Representations (**ICLR**), 2025.
3. Jaehui Hwang, Dongyoon Han, Byeongho Heo, **Song Park**, Sanghyuk Chun, Jong-Seok Lee, “*Similarity of neural architectures using adversarial attack transferability*”, European Conference on Computer Vision (**ECCV**), 2024.
4. Byeongho Heo, **Song Park**, Dongyoon Han, Sangdoo Yun, “*Rotary position embedding for vision transformer*”, European Conference on Computer Vision (**ECCV**), 2024.
5. Minhyun Lee\*, **Song Park\***, Byeongho Heo, Dongyoon Han, Hyunjung Shim, “*SeiT++: Masked Token Modeling Improves Storage-efficient Training*”, European Conference on Computer Vision (**ECCV**), 2024.
6. **Song Park**, Sanghyuk Chun, Byeongho Heo, Wonjae Kim, Sangdoo Yun, “*SeiT: Storage-efficient vision training with tokens using 1% of pixel storage*”, International Conference on Computer Vision (**ICCV**), 2023.  
<https://github.com/naver-ai/seit>
7. Sanghyuk Chun, Wonjae Kim, **Song Park**, Seong Joon Oh, Minsuk Chang, “*ECCV Caption: Correcting False Negatives by Collecting Machine-and-Human-verified Image-Caption Associations for MS-COCO*”, European Conference on Computer Vision (**ECCV**), 2022.

8. **Song Park\***, Sanghyuk Chun\*, Junbum Cha, Bado Lee, Hyunjung Shim, “*Few-shot Font Generation with Weakly Supervised Localized Representations*”, IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), 2021.
9. Sanghyuk Chun, **Song Park**, “*StyleAugment: Learning Texture De-biased Representations by Style Augmentation without Pre-defined Textures*”, arXiv preprint arXiv:2108.10549.
10. **Song Park**, Sanghyuk Chun, Junbum Cha, Bado Lee, Hyunjung Shim, “*Multiple Heads are Better than One: Few-shot Font Generation with Multiple Localized Experts*”, International Conference on Computer Vision (**ICCV**), 2021.  
<https://github.com/clovaai/mxfont>
11. **Song Park\***, Sanghyuk Chun\*, Junbum Cha, Bado Lee, Hyunjung Shim, “*Few-shot Font Generation with Localized Style Representations and Factorization*”, IEEE Conference on Computer Vision and Pattern Recognition Workshops (**CVPRW**), 2021 and AAAI Conference on Artificial Intelligence (**AAAI**), 2021.  
<https://github.com/clovaai/lffont>
12. Joo Hyun Park\*, **Song Park\***, Hyunjung Shim, “*Semantic-aware neural style transfer*, Image and Vision Computing (**IMAVIS**), vol. 87, pp. 13-23, 2019.
13. Junsuk Choe\*, **Song Park\***, Kyungmin Kim\*, Joo Hyun Park\*, Dongseob Kim\*, Hyunjung Shim, “*Face Generation for Low-Shot Learning Using Generative Adversarial Networks*”, International Conference on Computer Vision Workshops (**ICCVW**), 2017.

## RESEARCH EXPERIENCES

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<b>Research Scientist</b> NAVER AI Lab.	Jan 2022 - Present
<b>Visiting Researcher</b> NAVER AI Lab. <i>Mentor: Sanghyuk Chun</i>	Sep 2020 - Sep 2021
<b>Research Intern</b> NAVER CLOVA <i>Mentor: Sanghyuk Chun, Junbum Cha, and Bado Lee</i>	Mar 2020 - Sep 2020

## ACADEMIC ACTIVITIES

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### Research Presentations

- “**Few-shot Font Style Transfer with Localized Style Representations**” NAVER-HUST AI Seminar (2024).
- “**Storage-Efficient Vision Training with Tokens**”, Sogang University (2023).
- “**Few-shot Font Style Transfer with Localized Style Representations**”, Doctoral Consortium, KCCV (2022).

### Reviewer

- **SIGGRAPH**(2022, 2024), **ICCV**(2023), **ECCV** (2024), **CVPR** (2024, 2025), **NeurIPS** (2024)

## SCHOLARSHIPS

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<b>Full scholarship for Graduate School</b> <i>Institute for Information and Communications Technology Promotion (IITP)</i>	Mar 2016 - Feb 2020
<b>Full scholarship for Undergraduate School</b> <i>Institute for Information and Communications Technology Promotion (IITP)</i>	Mar 2013 - Feb 2016