

# YoonwooJeong



## Contact

[jjw123822@gmail.com](mailto:jjw123822@gmail.com)

## Languages

Korean mother tongue  
English fluency

## Skills

Python, CUDA, C/C++,  
Java

## GitHub

[github.com/jeongyw12382](https://github.com/jeongyw12382)

## Site

[yoonwooinfo.notion.site](https://yoonwooinfo.notion.site)

## Google Scholar

[yoonwoojeong.scholar](https://yoonwoojeong.scholar)

I am a computer vision researcher affiliated with Computer Vision Lab at POSTECH under the supervision of Professor **Minsu Cho**. My research interests lie in **neural rendering**, **diffusion models**, **3D perception**, and **correspondence problems**. Recently, I've been focusing on improving the Gaussian splatting algorithm, advancing diffusion models, and designing equivariant scene representations.

## Education

- 2021 - Now **Pohang University of Science and Technology, POSTECH** Pohang, Korea  
Integrated M.S./Ph.D. student on Graduate School of Artificial Intelligence
- 2017 - 2020 **Pohang University of Science and Technology, POSTECH** Pohang, Korea  
B.S. in Computer Science Engineering
- 2014 - 2017 **Korea Science Academy of KAIST** Busan, Korea

## Publications

- 2024 **NVS-Adapter: Plug-and-Play Novel View Synthesis from a Single Image** **1st author**  
European Conference on Computer Vision (ECCV)
- 2023 **Stable and Consistent Prediction of 3D Characteristic Orientation via Invariant Residual Learning** 3rd author  
International Conference on Machine Learning (ICML)
- 2022 **SeLCA: Self-supervised Learning of Canonical Axis** 2nd author  
Conference on Neural Information Process Workshop (NeurIPS-W)
- 2022 **PeRFception: Perception using Radiance Fields** **1st author**  
NeurIPS Dataset and Benchmarks Track (NeurIPS)
- 2022 **Fast Point Transformer** 2nd author  
Conference on Computer Vision and Pattern Recognition (CVPR)
- 2021 **Self-supervised Learning of Image Scale and Orientation Estimation** 2nd author  
The British Machine Vision Conference (BMVC)
- 2021 **Self-Calibrating Neural Radiance Fields** **1st author**  
International Conference on Computer Vision (ICCV)
- 2021 **Learning to Distill Convolutional Features Into Compact Local Descriptors** 2nd author  
Winter Conference on Applications of Computer Vision (WACV)

## Projects

- 2023 **NVS-Adapter: Plug-and-Play Novel View Synthesis from a Single Image** **Project leader**  
Work done during an internship at Kakao Brain  
Link: [github.com/jeongyw12382/nvs-adapter](https://github.com/jeongyw12382/nvs-adapter)
- 2022 **NeRF-Factory: An Awesome PyTorch NeRF Library** **Project leader**  
Work done during an internship at Kakao Brain  
Link: [github.com/kakaobrain/nerf-factory](https://github.com/kakaobrain/nerf-factory)
- 2022 **PeRFception: Perception using Radiance Fields** **Project leader**  
Joint work with NVIDIA  
Link: [github.com/POSTECH-CVLab/PeRFception](https://github.com/POSTECH-CVLab/PeRFception)
- 2021 **Self-calibrating Neural Radiance Fields** **Project leader**  
Joint work with NVIDIA  
Link: [github.com/POSTECH-CVLab/SCNeRF](https://github.com/POSTECH-CVLab/SCNeRF)

## Awards

2023	<b>Postechian Fellowship</b> Chosen as a student possessing great leadership skills.	
2023	<b>POSTECH Research Award</b> One paper selected (PeRFception)	Excellence award
2023	<b>Samsung Human Tech Paper Award</b> One paper selected (PeRFception)	Encouragement award
2022	<b>Qualcomm Innovation Fellowship South Korea</b> Two papers selected (Fast Point Transformer, SCNeRF)	
2022	<b>Samsung Humantech Paper Award</b> One paper selected (Fast Point Transformer)	Silver award
2022	<b>POSTECH Research Award</b> One paper selected (SCNeRF)	<b>Top award</b>
2021	<b>POSTECH Research Award</b> One paper selected (Self-supervised Learning of Image Scale and Orientation)	<b>Top award</b>
2019	<b>PPC - Postech Programming Contest</b>	<b>Top award</b>

## Experience

2023-Now	<b>Student president of the student council of GSAI</b> Working as the student president of Graduate School of Artificial Intelligence.	Pohang, Korea
2022-2023	<b>Internship on Kakaobrain</b> Research intern specialized in diffusion models and neural rendering	Pangyo, Korea
2022	<b>Lecture on Kakao Brain, Kakao Enterprise, POSTECH, and MODULabs</b> Introduced recent trends of Neural Rendering	
2021	<b>Lecture on Hangyang Erica SW/ICT Tech Competition and POSTECH</b> Shared personal experiences during M.S.	
2018 - 2020	<b>Internship program on Computer Vision Lab, POSTECH</b> Investigated Co-segmentation and Correspondence Problems	Pohang, Korea
2017 - 2018	<b>Internship program on Data-Intelligence Lab, POSTECH</b> Investigated Domain Generalization	Pohang, Korea

## Extra Curricular Activities

2023 - Now	<b>POSTEnglish - POSTECH English Debate Team</b> Enhancing the English conversation skills	Pohang, Korea
2023 - Now	<b>Climbmax - POSTECH Sports Climbing Team</b> Interested in sport climbing	Pohang, Korea
2017 - 2018	<b>POSCAT - POSTECH Computing Algorithms Team</b> Participated on ACM-ICPC regional	Pohang, Korea
2017 - 2019	<b>CHEERO - POSTECH Cheerleading Club</b> President of the Club	Pohang, Korea