

# Dongwon Kim

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## RESEARCH OBJECTIVE

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My work addresses the diverse challenges of multi-modal learning by harnessing object-centric representations. I have worked on and will continue to explore this approach to seamlessly align visual and language modalities, effectively resolving current problems of multi-modal AI: generalization, sample efficiency, and ambiguity.

## EDUCATION

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### POSTECH

*Integrated M.S. and Ph.D. in Computer Science and Engineering;*

Pohang, South Korea  
*Sep 2019 – Mar 2025 (Expected)*

- Supervised by [Prof. Suha Kwak](#) in the [Computer Vision Lab](#).
- Research interest: Computer vision, multi-modal learning, representation learning, metric learning

### POSTECH

*B.S. in Computer Science and Engineering*

Pohang, South Korea  
*Mar 2015 – Aug 2019*

## PUBLICATIONS

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- [1] *Shatter and Gather: Learning Referring Image Segmentation with Text Supervision* | [arXiv](#)  
**Dongwon Kim\***, Namyup Kim\*, Cuiling Lan, and Suha Kwak  
IEEE/CVF International Conference on Computer Vision (ICCV), Oct 2023
- [2] *Improving Cross-Modal Retrieval With Set of Diverse Embeddings* | [arXiv](#)  
**Dongwon Kim**, Namyup Kim, and Suha Kwak  
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), Jun 2023  
**Highlight (Top 2.5% = 235/9155)**
- [3] *ReSTR: Convolution-Free Referring Image Segmentation Using Transformers* | [arXiv](#)  
Namyup Kim, **Dongwon Kim**, Cuiling Lan, Wenjun Zeng, and Suha Kwak  
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), Jun 2022
- [4] *Self-Taught Metric Learning Without Labels* | [arXiv](#)  
Sungyeon Kim, **Dongwon Kim**, Minsu Cho, and Suha Kwak  
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), Jun 2022
- [5] *Embedding Transfer With Label Relaxation for Improved Metric Learning* | [arXiv](#)  
Sungyeon Kim, **Dongwon Kim**, Minsu Cho, and Suha Kwak  
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), Jun 2021
- [6] *Proxy Anchor Loss for Deep Metric Learning* | [arXiv](#)  
Sungyeon Kim, **Dongwon Kim**, Minsu Cho, and Suha Kwak  
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), Jun 2020

## AWARDS & ACHIEVEMENTS

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**POSTECHIAN fellowship**, POSTECH, 2023

**BK21 Best Paper Award**, POSTECH GSAI, 2023

- Self-Taught Metric Learning without Labels (CVPR 2022)

**Qualcomm Innovation Fellowship Winner**, Qualcomm Korea Corp., 2022

- Self-Taught Metric Learning without Labels (CVPR 2022)
- ReSTR: Convolution-free Referring Image Segmentation Using Transformers (CVPR 2022)

**NAVER × POSTECH AI DAY The 2nd and 3rd Prize, 2022**

- ReSTR: Convolution-free Referring Image Segmentation Using Transformers (CVPR 2022)

**Qualcomm Innovation Fellowship Winner, Qualcomm Korea Corp., 2021**

- Embedding Transfer with Label Relaxation for Improved Metric Learning (CVPR 2021)

**IPIU Best Paper Award, 2021**

- Embedding Transfer with Label Relaxation for Improved Metric Learning (CVPR 2021)

**National Science & Technology Scholarship, Korea Student Aid Foundation, 2017-2018**

**Jigok Scholarship, POSTECH, 2015-2016**

## PROFESSIONAL SERVICES

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**Reviewer, IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI): 2022, 2023**

**Reviewer, IEEE/CVF International Conference on Computer Vision (ICCV): 2023**

**Reviewer, IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR): 2022, 2023**

**Reviewer, European Conference on Computer Vision (ECCV): 2022**

**Reviewer, Winter Conference on Applications of Computer Vision (WACV): 2023**

**Reviewer, Asian Conference on Computer Vision (ACCV): 2022**