

# Kim Jisoo

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[Website](#) | [GitHub](#) | [LinkedIn](#)

## RESEARCH INTERESTS

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### Deep Learning based Computer Vision and Multi-modal Learning, including:

Machine perception understanding, text-guided generative Model, text-guided augmentation.

## EDUCATION

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### Ewha Womans University

*Bachelor of Computer Science*

Mar. 2018 – Aug. 2022

*Seoul, Korea*

- CGPA: 3.69/4.0, Major GPA: 3.78/4.0, *Magna Cum Laude*
- Academic Excellence Scholarship (upper 15% in enrollment, full-tuition support)

## RESEARCH EXPERIENCE

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### Algorithmic Machine Intelligence Lab: POSTECH

*External Research Participant (Advisor : Prof. TaeHyun Oh)*

Jul. 2022 - Present

*Pohang, Korea*

- Research on Text-guided generation and augmentation, ‘Text-guided manifold augmentation’ paper submitted for CVPR 2023.

### NuviLab, Inc.

*AI Software Engineer Intern*

Jan. 2022 – Jun. 2022

*Seoul, Korea*

- Developed a zero-shot food classification model leveraging CLIP, to classify 2,000+ food categories.
- Managed over 140k images and built multi-conditioned validation set sampling API.

### Computer Vision Lab: POSTECH

*Undergraduate Research Intern (Advisor : Prof. Jaesik Park)*

May 2021 – Sep. 2021

*Pohang, Korea*

- Research on Generative Model
- Implemented ‘Repurposing GANs for One-shot Semantic Part Segmentation’ in PyTorch [[Github](#)].

## PUBLICATIONS

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(Equal contribution are denoted by “\*”).

[1] M. Ye-Bin, **Kim Jisoo\***, Hong-Yeob, T.-H. Oh “Pre print?? what Text-guided manifold augmentation” *CVPR*, 2023. (Accept. rate *Idonno%*)

[2] K. Da-yeon\*, **Kim Jisoo\***, C. Ki-Jun “Grape Grade Discrimination System using Step-by-Step Deep Learning Model and Drone Path Planning Algorithm”, *Korean Institute of Information Scientists and Engineers: KIISE*, 2021.

## PROJECTS

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### GGDS: Grape Grade Discrimination System

*Project Leader, AI Engineer*

Sep. 2021 – Jun. 2022

*Seoul, Korea*

- Built intelligence system for large-scale grape farms; consisting drone autonomous driving, detection, tracking, segmentation [[Github](#)]
- Consolidated a regression model to estimate total number of berries including occluded ones from a monocular image.

### AWS CIC Challenge

*AI Software Researcher & Engineer*

Nov. 2021 – May 2022

*Seoul, Korea*

- Constructed a leaf segmentation system and calculated the leaf area to construct the first and only DB for perilla leaf; applied them to local farms in Geumnsan, Korea.

## Naver AI BoostCamp

Jul. 2021 – Dec. 2021

*AI Engineer*

*Seoul, Korea*

- Implemented custom CutMix tool and improved performance by 3% for trash semantic segmentation model
- Developed Pet Diary using Multimodal Model CLIP; Generated diary text by classifying emotion, situation, and action from pet photos.

## Junction X Seoul AI Hackathon

May 2021

*AI Software Engineer*

*Seoul, Korea*

- Segmented major facilities (i.e. building, road) from satellite images and adapted clustering algorithms to establish a location proposal model for fire stations. [\[Github\]](#)

## AWARDS & HONORS

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**Gold Prize**, Graduation Project Competition, Ewha Womans University / May. 2022

**2<sup>nd</sup> Place**, Smart Farm AI Challenge, Ministry of Agriculture, Food, and Rural Affairs, Korean Gov. / Mar. 2022

**Best Poster Award**, Graduation Project Competition, Ewha Womans University / Nov. 2021

**2<sup>nd</sup> Place**, SW Startup Competition, Ewha Womans University / Nov. 2021

**2<sup>nd</sup> Place**, JunctionXSeoul AI Hackathon, Junction Korea / May 2021

**Dean's List** 2020 – 2021(annual), every eligible quarter

## EXTRA

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### Programming Skills

Proficient: Python, PyTorch, Git, SQL

Familiar: Linux, C/C++

### Teaching Experience

Mentor for Udacity Nanodegree for AI programming and code reviews with Python