

# SUNGJUNE KIM

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## RESEARCH INTERESTS

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Computer Vision, Autonomous Driving, Robot Navigation

## EDUCATION

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**Korea University, Seoul, South Korea** Mar. 2022 - Current  
M.S./Ph.D. in Artificial Intelligence (Advisor: Professor Sangpil Kim)

**Dongguk University, Seoul, South Korea** Feb. 2019  
(Major) Bachelor of Business Administration in Management  
(2nd Major) Bachelor of Science in Software Convergence

**Gwacheon Foreign Language Highschool** Feb. 2014  
English Major / Japanese Minor

## EXPERIENCE

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**Visiting Scholar** (Expected) May. 2025 - Apr. 2026  
University of Michigan, Ann Arbor (Advisor: Professor Honglak Lee) *Ann Arbor, MI, USA*

- Vision-Language understanding for embodied agents

**Visiting Graduate Researcher** Mar. - Aug. 2023, Mar. 2024 - Jan. 2025  
Computer Vision Lab, Samsung Advanced Institute of Technology (SAIT) *Suwon, South Korea*

- Vision-Language understanding for robot navigation
- Multi-view camera-based 3D occupancy prediction
- Multimodal fusion of RGB camera and LiDAR sensor for 3D object detection

**Military Officer** Mar. 2019 - Jun. 2021  
ICT Battalion, 22nd Infantry Division, Republic of Korea Army *Gangwon, South Korea*

- Wired communication network management (UTP, Optical cables) - 1st Lieutenant
- Tactical Multiband Radio (TMR) operations - 2nd Lieutenant

## PUBLICATIONS

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**Sungjune Kim**<sup>†</sup>, Gyeongrok Oh<sup>†</sup>, Heeju Ko, Daehyun Ji, Dongwook Lee, Byung-Jun Lee, Sujin Jang\*, Sangpil Kim\* “Test-Time Adaptation for Online Vision-Language Navigation with Feedback-based Reinforcement Learning”, ICML 2025. († Equal Contributions)

Gyeongrok Oh<sup>†</sup>, **Sungjune Kim**<sup>†</sup>, Heeju Ko, Hyung-gun Chi, Jinkyu Kim, Dongwook Lee, Daehyun Ji, Sungjoon Choi, Sujin Jang\*, Sangpil Kim\* “3D Occupancy Prediction with Low-Resolution Queries via Prototype-aware View Transformation”, CVPR 2025. († Equal Contributions) ([link](#))

Gyeongrok Oh, **Sungjune Kim**, Heon Gu, Sangho Yoon, Jinkyu Kim, Sangpil Kim\* “FPANet: Frequency-based Video Demoireing using Frame-level Post Alignment”, Neural Networks, 2025 ([link](#))

**Sungjune Kim**, Hadam Baek, Seunggwon Lee, Hyung-gun Chi, Hyerin Lim, Jinkyu Kim\*, Sangpil Kim\* “Enhanced Motion Forecasting with Visual Relation Reasoning”, ECCV 2024 ([link](#))

**Sungjune Kim**, Hyung-gun Chi, Hyerin Lim, Karthik Ramani, Jinkyu Kim\*, Sangpil Kim\* “Higher-order Relational Reasoning for Pedestrian Trajectory Prediction”, CVPR 2024 ([link](#))

**Sungjune Kim**, Seongjun Yun, Gyusam Chang, Wonseok Roh, Jung-Tae Lee, Dae-Neung Sohn, Hogun Park\*, Sangpil Kim\*, “Self-supervised Multimodal Graph Convolutional Network for Collaborative Filtering”, Information Sciences (JCR IF Top 10%) 2023 ([link](#))

## PATENTS

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- Method and mobility device using the method for path prediction through interaction analysis between objects using artificial intelligence (Pending - Application No. 1020240038555)
- Self-supervised learning for graph-based item popularity prediction (Pending - Application No. 1020230018908)

## TALKS & POSTERS

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- **[Seminar]** Naver Invited Seminar - Virtual (Dec. 2023)  
Cold-start Item Popularity Prediction in E-Commerce and Its Future
- **[Poster]** Naver Search Colloquium (Commerce AI Session) - Virtual (May 2022)  
Multimodal Graph Neural Network for Cold-start Item Popularity Prediction in E-Commerce

## AWARDS

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- **[Best Paper Award]** 2023-Fall Best Paper Award, School of Informatics, Korea University

## SKILLS

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- **Programming Languages:** Python, Java, C++
- **Frameworks:** PyTorch, TensorFlow
- **Operating Systems:** Linux, Windows
- **Languages:** Korean(Native), English(Fluent)