

## EDUCATION

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**University of Washington (UW)**

2022.09 -

Ph.D. in Computer Science and Engineering

Advisor: Prof. Byron Boots

**Korea Advanced Institute of Science and Technology (KAIST)**

2020 - Present

M.S. in Artificial Intelligence

Advisor: Prof. Jaegul Choo

GPA: 4.06 / 4.30

**Korea University**

2013 - 2019

B.S. in Computer Science and Engineering

GPA: 3.70 / 4.50; Major GPA: 4.11 / 4.50

Military service during 2015 - 2016

## RESEARCH INTEREST

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Autonomous driving, robot learning, and robot perception

## PUBLICATIONS

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- [7] Jungsoo Lee, Juyoung Lee, **Sanghun Jung**, and Jaegul Choo. DebiasBench: Benchmark for Fair Comparison of Debiasing in Image Classification. *arXiv preprint: 2206.03680*, 2022. [paper]
- [6] **Sanghun Jung**, Jungsoo Lee, Nanhee Kim, and Jaegul Choo. CAFA: Class-Aware Feature Alignment for Test-Time Adaptation. *arXiv preprint: 2206.00205*, 2022. *Under Review*. [paper]
- [5] Minsoo Lee, Chaeyeon Chung, Hojun Cho, Minjung Kim, **Sanghun Jung**, Minhyuk Sung, and Jaegul Choo. 3D-GIF: 3D-Controllable Object Generation via Implicit Factorized Representations with Unposed 2D Images. *arXiv preprint: 2203.06457*, 2021. *Under Review*. [paper]
- [4] Kyungmin Jo\*, Gyumin Shim\*, **Sanghun Jung**, Soyoung Yang, and Jaegul Choo. CG-NeRF: Conditional Generative Neural Radiance Fields. *arXiv preprint: 2112.03517*, 2021. *Under Review*. [paper]
- [3] **Sanghun Jung**\*, Jungsoo Lee\*, Daehoon Gwak, Sungha Choi, and Jaegul Choo. Standardized Max Logits: A Simple yet Effective Approach for Identifying Unexpected Road Obstacles in Urban-Scene Segmentation. *International Conference on Computer Vision (ICCV)*, 2021. **Oral Presentation** (3.0% acceptance rate) [paper] [code]
- [2] Sungha Choi\*, **Sanghun Jung**\*, Huiwon Yun, Joanne T. Kim, Seungryong Kim, and Jaegul Choo. RobustNet: Improving Domain Generalization in Urban-Scene Segmentation via Instance Selective Whitening. *Computer Vision and Pattern Recognition (CVPR)*, 2021. **Oral Presentation** (4.1% acceptance rate) [paper] [code]
- [1] Jinho Choi, **Sanghun Jung**, Deokgun Park, Jaegul Choo, and Niklas Elmqvist. Visualizing for the Non-Visual: Enabling the Visually Impaired to Use Visualization. *Computer Graphics Forum (EuroVIS)*, 2019. [paper]

## PATENTS

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- [2] **Sanghun Jung**, Henry A. Leinhos, Fangwei Li, Ina Liu. Method, System, and Non-Transitory Computer-Readable Recording Medium for Controlling a Robot. *US Patent in Progress*
- [1] Bryant L. Pong, Henry A. Leinhos, **Sanghun Jung**. Method, System, and Non-Transitory Computer-Readable Recording Medium for Controlling Movement of a Robot. *US Patent in Progress*

## WORK EXPERIENCE

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### **Bear Robotics Korea**

*Robotics Engineer*

Conducted projects such as safe velocity controller and odometry and localization testing

Seoul, South Korea

2019 - 2020

### **Bear Robotics**

*Robotics Engineering Intern*

Developed robot algorithms such as depth camera extrinsic calibration

Redwood City, CA, US

2018 - 2019

## SCHOLARSHIP

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**KAIST Support Scholarship**, KAIST

2020, 2021

**Veritas Program Scholarship**, Korea University

2018

**Academic Excellence Scholarship for Freshmen**, Korea University

2013

## AWARDS

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**Best Poster Award - Standardized Max Logits**, KAIST AI Workshop

2022

## INVITED TALKS

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**KAIST AI Workshop**

Standardized Max Logits: A Simple yet Effective Approach for Identifying Unexpected Road Obstacles

Jan., 2022

**Hyundai Motor Group AI Research Seminar**

Domain Generalization in Urban-Scene Segmentation

Jul., 2021

**Naver AI LAB**

RobustNet: Improving Domain Generalization in Segmentation

Jul., 2021

## LANGUAGES

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**English:** fluent, TOEFL: 102 (RC: 29, LC: 26, SPK: 23, WRT: 24)

**Korean:** native

## PROGRAMMING SKILLS

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**Languages:** Python, C++, Bash

**Technologies:** Pytorch, Docker, Linux, Robot Operating System (ROS1)