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Education

Korea Advanced Institute for Science and Technology (KAIST)

Daejeon, South Korea

Ph.D in Electrical Engineering Supervised by Prof. In So Kweon Aug 2018 - Aug 2023

Georgia Institute of Technology

Atlanta, GA, USA

B.S. IN ELECTRICAL ENGINEERING

Aug 2014 - May 2018

GPA: 3.5/4.0 (High Honor)

Research Interest

My current research interests lie in the general areas of computer vision and deep learning with a particular focus Vision & Language Tasks such as Visual Question Answering and Active Learning.

Experience __

Sejong University Seoul, South Korea

ASSISTANT PROFESSOR

• Department of Artificial Intelligence and Data Science

KAIST, Multimodal AI Lab

Daejeon, South Korea

Mar 2024 - present

POSTDOCTORAL RESEARCH ASSOCIATE

Aug 2023 - Feb 2024 • Research on Computer Vision: Multi-modal AI, Video & Language

KAIST, Robotics and Computer Vision (RCV) Lab

Daejeon, South Korea

RESEARCH ASSISTANT

Aug 2018 - Aug 2023

· Research on Computer Vision: VQA, Active Learning

Projects_

Object-centric Scene Understanding for Video Turing Test

South Korea

KOREA MINISTRY OF SCIENCE AND ICT

Aug 2018 - Feb 2022

Project Member/Lead: Developing a rich object-centric scene understanding framework for Video Turing Test based on Video Question Answering.

Biometric Door Lock Atlanta, GA, USA

STANLEY BLACK & DECKER Oct 2017 - May 2018

Project Lead: Tasked with developing a WiFi channel state information based gait recognition for classification.

Publications

- Jae Won Cho, Dawit Mureja Argaw, Yeongtaek Oh, Dong-Jin Kim, In So Kweon, "Empirical study on using Adapters for debiased Visual Question Answering." Computer Vision and Image Understanding (CVIU), 2023.
- Jae Won Cho*, Dong-Jin Kim*, Yunjae Jung, In So Kweon, "Counterfactual Mix-Up for Visual Question Answering." IEEE Access, 2023. (* equal contribution)
- Jae Won Cho, Dong-Jin Kim, Hyeonggon Ryu, In So Kweon, "Generative Bias for Robust Visual Question Answering." IEEE International Conference on Computer Vision and Pattern Recognition (CVPR), 2023. (28th HumanTech Paper Award, Bronze Prize)
- · Youngjoon Jang, Youngtaek Oh, Jae Won Cho, Myungchul Kim, Dong-Jin Kim, In So Kweon, Joon Son Chung, "Self-Sufficient Framework for Continuous Sign Language Recognition." International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2023 [Oral] [top 3% recognition of all accepted papers].

- Youngjoon Jang, Youngtaek Oh, **Jae Won Cho**, Dong-Jin Kim, Joon Son Chung, In So Kweon, "Signing Outside the Studio: Benchmarking Background Robustness for Continuous Sign Language Recognition." *British Machine Vision Conference* (**BMVC**), 2022.
- Jae Won Cho*, Dong-Jin Kim, Yunjae Jung, In So Kweon, "MCDAL: Maximum Classifier Discrepancy for Active Learning." *IEEE Transactions on Neural Networks and Learning Systems* (TNNLS), 2022. (* equal contribution)
- Chaoning Zhang, Philipp Benz, Adil Karjauv, **Jae Won Cho**, Kang Zhang, In So Kweon, "Investigating Top-k White-box and Transferable Black-box Attack." *IEEE International Conference on Computer Vision and Pattern Recognition* (**CVPR**), 2022.
- Dong-Jin Kim*, **Jae Won Cho***, Jinsoo Choi, Yunjae Jung, In So Kweon, "Single-Modal Entropy based Active Learning for Visual Question Answering." *British Machine Vision Conference* (**BMVC**), 2021. (* equal contribution)
- Inkyu Shin, Dong-Jin Kim, **Jae Won Cho**, Sanghyun Woo, Kwanyong Park, In So Kweon, "LabOR: Labeling Only if Required for Domain Adaptive Semantic Segmentation." *IEEE International Conference on Computer Vision* (**ICCV**), 2021 [**Oral**] (*acceptance rate 3%*).
- Antyanta Bangunharcana, **Jae Won Cho**, Seokju Lee, In So Kweon, Kyung-Soo Kim, Soohyun Kim, "Correlate-and-Excite: Real-Time Stereo Matching via Guided Cost Volume Excitation." *IEEE/RSJ International Conference on Intelligent Robots and Systems* (**IROS**), 2021.
- Jae Won Cho, Dong-Jin Kim, Jinsoo Choi, Yunjae Jung, In So Kweon, "Dealing with Missing Modalities in the Visual Question Answer-Difference Prediction Task through Knowledge Distillation." CVPR Multimodal Learning and Applications Workshop (CVPRW), 2021
- Dawit Mureja Argaw, Junsik Kim, Francois Rameau, Jae Won Cho, In So Kweon. "Optical Flow Estimation from a Single Motion-blurred Image." Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI), 2021.

Honors & Awards.

2023	NICE Challenge, 2nd Place, NICE Workshop at CVPR 2023 (\$5,000 USD)	Vancouver, Canada
2022	28th HumanTech Paper Award, Bronze Prize, Samsung Electronics Co. Ltd (\$5,000)	South Korea
2018-	KAIST Scholarship, Full Scholarship for Ph.D Program	KAIST, South Korea
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2018	Eta Kappa Nu (HKN), Beta Mu Chapter, Lifetime Membership	Atlanta, GA, USA
2018	High Honor , Georgia Institute of Technology Electrical Engineering	Atlanta, GA, USA
2017	Georgia Tech Faculty Honors , Perfect GPA Honors (Spring 2017)	Atlanta, GA, USA
2014, 2015, Georgia Tech Dean's List , (Fall 2017, Spring 2015, Fall 2014) Atlanta, GA, US.		
2017	Georgia Tech Dean 3 List, (Fatt 2011, Spring 2013, Fatt 2014)	Allunia, OA, OSA
2017-2018 Scholarship of In-State- Tuition Waiver (\$10,000 USD), Awarded based on GPA and need		Atlanta, GA, USA

Skills

Programming Languages: Python, Matlab, C, LTEX, VHDL

Deep Learning PyTorch, Caffe, TensorFlow, C3D

Languages English (Native), Korean (Fluent), Chinese (Basic)

Miscellaneous Autodesk Inventor, Solidworks, Microsoft Office, PSpice, LTspice, Matchcad, Multisim, ORCAD, Allegro.

References_

Prof. In So Kweon

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Prof. Joon Son Chung

SCHOOL OF ELECTRICAL ENGINEERING, KAIST

Email: joonsc@kaist.ac.kr

Prof. Dong-Jin Kim

DEPARTMENT OF DATA SCIENCE, HANYANG UNIVERSITY

Email: djdkim@hanyang.ac.kr