# Jae Won **Cho**

Computer Vision Researcher · Electrical Engineer

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## Education

**Korea Advanced Institute for Science and Technology (KAIST)** *Daejeon, South Korea*

Ph.D in Electrical Engineering *Aug 2018 - Present*

Supervised by Prof. In So Kweon

**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

**KAIST, Robotics and Computer Vision (RCV) Lab** *Daejeon, South Korea*

Research Assistant *Aug 2018 - Present*

- Research on Computer Vision: VQA, Active Learning

**KAIST, Robotics and Computer Vision (RCV) Lab** *Daejeon, South Korea*

Research Intern *Jun 2017 - Aug 2017*

- Research on fine-grained action recognition classification using Deep Learning

**KAIST, Robotics and Computer Vision (RCV) Lab** *Daejeon, South Korea*

Research Intern *Jun 2016 - Aug 2016*

- Research on reconstruction of 3D images using traditional computer vision techniques

## Projects

**Object-centric Scene Understanding for Video Turing Test** *South Korea*

Korea Ministry of Science and ICT *Aug 2018 - Present*

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

### International Conferences

- Antyanta Bangunharcana, **Jae Won Cho**, Seokju Lee, In So Kweon, Kyung-Soo Kim, Soohyun Kim, "LIGNet: Lightweight Image Guided Network for Real Time Stereo Matching." *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

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| 2018-Present | **KAIST Scholarship**, Full Scholarship for Ph.D Program | *KAIST, South Korea* |
| 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, 2017 | **Georgia Tech Dean's List**, (Fall 2017, Spring 2015, Fall 2014) | *Atlanta, GA, USA* |
| 2017-2018 | **Scholarship of In-State- Tuition Waiver ($10,000 USD)**, Awarded based on GPA and need | *Atlanta, GA, USA* |

## Skills

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| **Programming Languages:** | Python, Matlab, C, LaTeX, 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**

School of Electrical Engineering, KAIST

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