

# Jihyun Lee

Ph.D. Candidate  
School of Computing, KAIST  
jihyun.lee@kaist.ac.kr · <https://jihyunlee.github.io/>

## EDUCATION

---

- Aug. 2020 ~ **KAIST** Daejeon, South Korea  
*Integrated Master's & Ph.D in Computer Science*  
• Advisors: Prof. Tae-Kyun (T-K) Kim and Prof. Minhyuk Sung
- Mar. 2017 ~ **Handong Global University** Pohang, South Korea  
Aug. 2020 *Bachelor of Science in Computer Science*  
• Top Rank in Computer Science and Electrical Engineering Department (GPA: 4.45 / 4.5)  
• Early Graduation

## RESEARCH INTERESTS

---

Deep learning for 3D modeling of human bodies and hands

## PUBLICATIONS

---

### PREPRINT

- [P1] **J. Lee**, S. Saito, G. Nam, M. Sung, T-K. Kim, “InterHandGen: Two-Hand Interaction Generation via Cascaded Reverse Diffusion” – Under Review

### INTERNATIONAL CONFERENCES

- [C1] **J. Lee**, J. Jang, D. Kim, M. Sung, T-K. Kim, “FourierHandFlow: Neural 4D Hand Representation Using Fourier Query Flow”, **NeurIPS 2023**, New Orleans, United States
- [C2] **J. Lee**, M. Sung, H. Choi, T-K. Kim, “Im2Hands: Learning Attentive Implicit Representation of Interacting Two-Hand Shapes”, **CVPR 2023**, Vancouver, Canada
- [C3] H. Park\*, **J. Lee**\*, Y. Seo, T. Min, J. Yun, J. Kim, T-K. Kim, “Contrastive Knowledge Distillation for Anomaly Detection in Multi-Illumination/Focus Display Images”, MVA 2023, Hamamatsu, Japan (\* equal contributions) – **oral**  
- *Written as a report of an industrial research project with Samsung Display*
- [C4] **J. Lee**\*, M. Sung\*, H. Kim, T-K. Kim, “Pop-Out Motion: 3D-Aware Image Deformation via Learning Shape Laplacian”, **CVPR 2022**, New Orleans, United States (\* equal contributions)
- [C5] **J. Lee**, B. Bhattarai, T-K. Kim, “Face Parsing from RGB and Depth Using Cross-Domain Mutual Learning”, **CVPR Workshops 2021** (IEEE AMFG), virtual – **oral**, 27% acceptance rate
- [C6] M. Kang, **J. Lee**, S. Kim and I. Kim, “Fast DCTTS: Efficient Deep Convolutional Text-to-Speech”, **ICASSP 2021**, Toronto, Canada

## DOMESTIC CONFERENCES (IN KOREAN)

- [C7] D. Kim, H. Kim, **J. Lee**, J. Park, H. Kim, “Elimination of Grid Lines in the Object Boundary Area of X-ray Images”, KCC 2019, Jeju, South Korea
- [C8] **J. Lee**, J. Park, J. Seo and H. Kim, “A Dynamically Segmented DCT Technique for Grid Artifact Suppression in X-ray Images”, KIPS 2018, Busan, South Korea
- [C9] J. Jung, J. Park, **J. Lee**, G. Jung and H. Kim, “A Blocking Effect Reduction Technique for the Grid Line Suppression Method using DCT”, KSC 2018, Pyeongchang, South Korea

## DOMESTIC JOURNAL (IN KOREAN)

- [J1] H. Kim, J. Jung, **J. Lee**, J. Park, J. Seo, and H. Kim, “A Dynamically Segmented DCT Technique for Grid Artifact Suppression in X-ray Images”, KTSDE, 8(4), 171-178 (2019)

## PATENT

---

- [P1] M. Kang, S. Kim, S. Kim, **J. Lee**, and I. Kim, “Method for Lightweight Speech Synthesis of End-to-End DCTTS (Deep Convolutional Text-To-Speech System)”, KR Patent 10-2019-0

## AWARDS (SELECTED)

---

- [A1] Outstanding TA Award, KAIST, 2022
- [A2] Mayor’s Award (\$3,000), Korea Software Convergence Hackathon, Ministry of Science and ICT of Korea, 2019
- [A3] Honorable Mention Award, Undergraduate Student Paper Competition, KSC, 2019
- [A4] Honorable Mention Award, Undergraduate Student Paper Competition, KCC, 2019
- [A5] Silver Prize, Undergraduate Student Paper Competition, KIPS, 2018

## ACADEMIC ACTIVITIES

---

*Reviewer* CVPR (2023-2024), AAAI (2023), PG (2023), Image and Vision Computing (2022-2023), CVPRW (2021)

*Student Organizer* Google exploreCSR Workshops at KAIST (2022-2023)

## TEACHING EXPERIENCES

---

*Teaching Assistant* Artificial Intelligence and Machine Learning (CS570), KAIST, 2021-2023

Machine Learning for Computer Vision (CS492), KAIST, 2021-2022

Operating System (ECE30021), Handong Global University, 2020

C++ Programming (ECE20018), Handong Global University, 2019

Data Structure (ECE20010), Handong Global University, 2018