Jihyun Lee

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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 ~ Aug. 2020	**Handong Global University**	Pohang, South Korea
	Bachelor of Science in Computer Science	
	• *Top Rank* in Computer Science and Electrical Engineering Department (GPA: 4.45 / 4.5)	
	• Early Graduation	

RESEARCH INTERESTS

3D vision and graphics to model human bodies and hands

PUBLICATIONS

INTERNATIONAL CONFERENCES

[C1] **J. Lee**, S. Saito, G. Nam, M. Sung, T-K. Kim, "InterHandGen: Two-Hand Interaction Generation via Cascaded Reverse Diffusion", **CVPR 2024**, Seattle, United States

[C2] **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

[C3] **J. Lee**, M. Sung, H. Choi, T-K. Kim, "Im2Hands: Learning Attentive Implicit Representation of Interacting Two-Hand Shapes", **CVPR 2023**, Vancouver, Canada

[C4] 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*

[C5] **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)

[C6] **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

[C7] 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)

[C8] 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

[C9] **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

[C10] 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), ECCV (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