

JINGYU LEE

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EDUCATION

Seoul National University

Ph.D. Student in Computer Science and Engineering (*Advisor: Youngki Lee*)

Mar 2020 - Present
Seoul, Republic of Korea

Seoul National University

M.S. in Computer Science and Engineering (*Advisor: Yeong-Gil Shin*)

Mar 2018 - Feb 2020
Seoul, Republic of Korea

DigiPen Institute of Technology

B.S. in Computer Science in Real-Time Interactive Simulation

Mar 2012 - Apr 2016
Redmond, Washington, USA

WORK EXPERIENCE

Microsoft Research Asia

Research Intern - Heterogeneous and Extreme Computing (HEX) Group
(*Advisor: Yunxin Liu and Ting Cao*)

Dec 2020 - May 2021
Beijing, China (Virtual)

Microsoft

Contracted Software Engineer - Minecraft: Education Edition Team

Sep 2016 - May 2017
Redmond, Washington, USA

PUBLICATION

Loss-tolerant Live Video Analytics System

Kichang Yang, Minkyung Jeong, Juheon Yi, **Jingyu Lee**, Kyungsoo Park, Youngki Lee

ACM International Conference on Mobile Computing and Networking (MobiCom) [DOI]

Nov 2024

Maestro: The Analysis-Simulation Integrated Framework for Mixed Reality

Jingyu Lee, Hyunsoo Kim, Minjae Kim, Byung-Gon Chun, Youngki Lee

ACM International Conference on Mobile Systems, Applications, and Services (MobiSys) [DOI]

June 2024

Band: Coordinated Multi-DNN Inference on Heterogeneous Mobile Processors

Joo Seong Jeong[†], **Jingyu Lee**[†], Donghyun Kim, Changmin Jeon, Changjin Jeong, Youngki Lee, Byung-Gon Chun

([†] Both authors contributed equally to the paper)

ACM International Conference on Mobile Systems, Applications, and Services (MobiSys) [DOI]

June 2022

ParallelFusion: Towards Maximum Utilization of Mobile GPU for DNN Inference

Jingyu Lee, Yunxin Liu, Youngki Lee

International Workshop on Embedded and Mobile Deep Learning (in conjunction with MobiSys) [DOI]

June 2021

Liver Segmentation in Abdominal CT Images via Auto-Context Neural Network and Self-supervised Contour Attention

Minyoung Chung, **Jingyu Lee**, Jeongjin Lee*, Yeong-Gil Shin

Artificial Intelligence in Medicine [DOI]

Mar 2021

Automatic Registration between Cone-Beam CT and Scanned Surface via Deep-Pose Regression Neural Networks and Clustered Similarities

Minyoung Chung, **Jingyu Lee**, Wisoo Song, Youngchan Song, Il-Hyung Yang, Jeongjin Lee*, Yeong-Gil Shin

IEEE Transactions on Medical Imaging [DOI]

Dec 2020

Deeply Self-Supervised Contour Embedded Neural Network Applied to Liver Segmentation

Minyoung Chung, **Jingyu Lee**, Minkyung Lee, Jeongjin Lee*, Yeong-Gil Shin

Computer Methods and Programs in Biomedicine [DOI]

Aug 2020

Pose-Aware Instance Segmentation Framework from Cone Beam CT Images for Tooth Segmentation

Minyoung Chung, Minkyung Lee, Jioh Hong, Sanguk Park, Jusang Lee, **Jingyu Lee**, Il-Hyung Yang, Jeongjin Lee*, Yeong-Gil Shin

Computers in Biology and Medicine [DOI]

May 2020

PROJECT

Band: Multi-DNN Framework for Mobile-Cloud Platform

Project Lead [github] [Unreal Engine plugin] [examples]

Somnus

Sep 2015 - Apr 2016

Technical Director (*Team of 4 Programmers, 1 Designer, 4 Artists, 3 Sound Designers*)

3D Puzzle Platformer that utilizes perspective illusions to manipulate the environment [link]

TEACHING

SNU & LG Data Science Course: Machine Learning (TA)

Jan 2024, Jan 2023, Jan 2022, Jan 2021, Feb 2020

Machine Learning Theory and Practice (*Textbook: An Introduction to Statistical Learning*)

SNU & Samsung Data Science Course: Machine Learning Projects (TA)

Oct 2023, Jun 2023

Machine Learning Projects with Kaggle

SNU & SK Hynix ML Engineer Course: Time Series Data Analysis (TA)

Nov 2022, Aug 2022

Time Series Data Analysis

SNU Big Data & Fintech Expert Training Course: Fintech Industry Application (TA)

Apr 2021

Mobile Deep Learning & Machine Learning Application Development

SNU Computer Programming (M1522.000600, 001) (TA)

Fall 2020

Object Oriented Programming in Java & C++

INVITED TALK

University of Texas at Austin (Host: Daehyeok Kim)

Dec 2024

Analysis-Simulation Integrated Platform For Mixed Reality

Duke University (Host: Maria Gorlatova)

Dec 2024

Analysis-Simulation Integrated Platform For Mixed Reality

University of California, Merced (Host: Shijia Pan)

Dec 2024

Analysis-Simulation Integrated Platform For Mixed Reality

KAIST School of Computing (Host: Junehwa Song)

Sep 2023

Band: Coordinated Multi-DNN Inference on Heterogeneous Mobile Processors

Samsung Global Technology Symposium – Poster

Apr 2023

Band: Coordinated Multi-DNN Inference on Heterogeneous Mobile Processors

Institute of Embedded Engineering of Korea Fall Conference Proceedings

Nov 2022

Band: Coordinated Multi-DNN Inference on Heterogeneous Mobile Processors

A3 Foresight Workshop

Aug 2021

ParallelFusion: Towards Maximum Utilization of Mobile GPU for DNN Inference [link]

HONORS & AWARD

E3 College Game Competition - Somnus

Jun 2016

Finalist (top 5) [DigiPen news]

ACADEMIC SERVICE

IEEE Transactions on Medical Imaging

Reviewer

Last updated: 2025-03-25