Yunseok Jang

CONTACT
INFORMATION

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RESEARCH
INTERESTS

Machine Learning, Multimodal Learning, Generative Models, Large Vision and Language Models

EDUCATION

University of Michigan, Ann Arbor, MI   Sep. 2018 – May 2025
Ph.D., Computer Science and Engineering
Thesis: *Enhancing Video Understanding Through Deep Generative Models and Task Comprehension*
Advisor: Honglak Lee
Committee: Joyce Chai, Justin Johnson, Andrew Owens

Seoul National University, Seoul, Korea   Mar. 2016 – Feb. 2018
M.S., Computer Science and Engineering
Thesis: *Video-based Visual Question Answering with Spatio-Temporal Reasoning Tasks*
Advisor: Gunhee Kim
Committee: Byoung-Tak Zhang, U Kang

KAIST, Daejeon, Korea   Feb. 2007 – Aug. 2015
B.S., Computer Science
Cumulative Rank: **1st** out of 231 students in August 2015

Franklin W. Olin College of Engineering, Needham, MA   Aug. 2008 – May 2009
Exchange Student Program

PUBLICATIONS

Peer-Reviewed Conference Papers:

[C9] **Yunseok Jang***, Yeda Song*, Sungryull Sohn, Lajanugen Logeswaran, Tiange Luo, Dong-Ki Kim, Kyunghoon Bae, Honglak Lee. *"Scalable Video-to-Dataset Generation for Cross-Platform Mobile Agents."* In CVPR, 2025. [pdf]

[C8] Saelyne Yang, Sunghyun Park, **Yunseok Jang**, Moontae Lee. *"YTCommentQA: Video Question Answerability in Instructional Videos."* In AAAI, 2024. [pdf]

[C7] Lajanugen Logeswaran, Sungryull Sohn, **Yunseok Jang**, Moontae Lee, Honglak Lee. *"Unsupervised Task Graph Generation from Instructional Video Transcripts."* In Findings of ACL (short), 2023. [pdf]

[C6] Michael Miller Yoder, Qinlan Shen, Yansen Wang, Alex Coda, **Yunseok Jang**, Yale Song, Kapil Thadani, Carolyn P. Rose. *"Phans, Stans and Cishets: Self-Presentation Effects on Content Propagation in Tumblr."* In WebSci, 2020. [pdf]

[C5] **Yunseok Jang***, Tianchen Zhao*, Seunghoon Hong, Honglak Lee. *"Adversarial Defense via Learning to Generate Diverse Attacks."* In ICCV, 2019. [pdf]

[C4] Dingdong Yang*, Seunghoon Hong*, **Yunseok Jang**, Tianchen Zhao, Honglak Lee. *"Diversity-Sensitive Conditional Generative Adversarial Networks."* In ICLR, 2019. [pdf]

[C3] **Yunseok Jang**, Gunhee Kim, Yale Song. *"Video Prediction with Appearance and Motion Conditions."* In ICML, 2018. [pdf]

[C2] Joon-Mo Park, Chul-joo Lee, **Yunseok Jang**. *"Theory-driven automated content analysis of suicidal tweets : Using typicality-based classification for LDA dataset."* In ICA, 2018. [pdf]

[C1] **Yunseok Jang**, Yale Song, Youngjae Yu, Youngjin Kim, Gunhee Kim. *"TGIF-QA: Toward Spatio-Temporal Reasoning in Visual Question Answering."* In CVPR, 2017 (**Spotlight**). [pdf]

Peer-Reviewed Workshop Papers:

[W3] **Yunseok Jang***, Yeda Song*, Sungryull Sohn, Lajanugen Logeswaran, Tiange Luo, Honglak Lee. *"Mobile OS Task Procedure Extraction from YouTube."* In NeurIPS First Workshop on Video-Language Models, 2024. [pdf]

[W2] **Yunseok Jang***, Sungryull Sohn*, Lajanugen Logeswaran, Tiange Luo, Moontae Lee, Honglak Lee. *"Multimodal Subtask Graph Generation from Instructional Videos."* In ICLR First Workshop on Multimodal Representation Learning, 2023. [pdf]

[W1] **Yunseok Jang**, Ruben Villegas, Jimei Yang, Duygu Ceylan, Xin Sun, Honglak Lee. *"RiCS: A 2D Self-Occlusion Map for Harmonizing Volumetric Objects."* In CVPR AI for Content Creation Workshop, 2022 (**Oral**, **Best Paper - Runner Up**). [pdf]

Peer-Reviewed Journal:

[J1] **Yunseok Jang**, Yale Song, Chris Dongjoo Kim, Youngjae Yu, Youngjin Kim, Gunhee Kim. *"Video Question Answering with Spatio-Temporal Reasoning."* IJCV, 2019. [pdf]

Technical Report:

[T1] **Yunseok Jang**, Yale Song, Gunhee Kim. *"On the Virality of Animated GIFs on Tumblr."* arXiv:2108.07894, 2021. [pdf]

PROFESSIONAL EXPERIENCE

Meta, Burlingame, CA — Aug. 2025 – Current
Research Scientist

University of Michigan, Ann Arbor, MI — Sep. 2018 – Dec. 2024
Graduate Student Research Assistant
Advisor: Honglak Lee

LG AI Research, Ann Arbor, MI — Nov. 2021 – May 2023
Research Intern
Collaborators: Sungryull Sohn, Lajanugen Logeswaran, Saelyne Yang, Sunghyun Park, Moontae Lee

Adobe Research, San Jose, CA — Jun. 2020 – Nov. 2020
Research Intern
Collaborators: Ruben Villegas, Duygu Ceylan, Jimei Yang, Xin Sun

Google, Mountain View, CA — Jun. 2019 – Dec. 2019
Research Intern
Collaborators: Will Lu, Lu Jiang

University of Michigan, Ann Arbor, MI — Mar. 2018 – Jun. 2018
Visiting Scholar
Advisor: Honglak Lee

Yahoo! Research, New York, NY — Jun. 2017 – Nov. 2017
Research Intern
Collaborator: Yale Song

Seoul National University, Seoul, Korea — Sep. 2015 – Feb. 2018
Graduate Student Research Assistant
Advisor: Gunhee Kim
Collaborator: Yale Song (under Yahoo Academic Research Program)

KAIST, Daejeon, Korea   Mar. 2015 – Jun. 2015
Undergraduate Research Assistant
Advisor: Alice Oh

KAKAO, Gyeonggi-do, Korea   Sep. 2012 – Jul. 2014
Software Engineer (iOS and Backend)

ESTsoft, Seoul, Korea   Jan. 2011 – Aug. 2012
Software Engineer (Android and Windows)

Helsinki Metropolia University of Applied Sciences, Espoo, Finland Jun. 2010 – Aug. 2010
Software Engineer Intern (Embedded System)

KAKAO, Seoul, Korea   Jul. 2009 – Dec. 2009
Software Engineer Intern (Network System)

ACADEMIC   **University of Michigan**, Ann Arbor, MI
EXPERIENCE Graduate Student Instructor, EECS281 Data Structures and Algorithms   Fall 2024
Graduate Student Instructor, EECS545 Machine Learning   Winter 2024
Graduate Student Instructor, EECS545 Machine Learning   Winter 2023
Graduate Student Instructor, EECS498/598 Deep Learning for Computer Vision   Fall 2020
Graduate Student Instructor, EECS498/598 Deep Learning for Computer Vision   Fall 2019

Seoul National University, Seoul, Korea
Grader, M1522.001000 Computer Vision   Spring 2017
Teaching Assistant, 4190.101 Discrete Mathematics   Spring 2016
Grader, 4190.773 Probabilistic Graphical Models   Fall 2015

KAIST, Daejeon, Korea
Teaching Assistant, CS101 Introduction to Programming   Spring 2015
Teaching Assistant, CS408 Computer Science Project   Spring 2013

PROFESSIONAL   ICML Workshop Workflow Manager (2019)
ACTIVITIES
Conference Reviewer: CVPR (2019–2025), ICCV/ECCV (2019–2023), ICLR (2020–2024), ICML
(2021–2023), NeurIPS (2020–2023), AAAI (2021), ICMI (2016–2018)

Workshop Reviewer: MRL (2023), AICC (2022), LUV (2019, 2021), AdvMLCV (2019)

HONORS AND   Recipient of OpenAI Researcher Access Program   Jul. 2024 – Dec. 2024
AWARDS
Recipient of Kwanjeong Graduate Student Scholarship Program   Jul. 2018 – Dec. 2023

CVPR 2022 AI for Content Creation Workshop Best Paper - Runner Up Award   Jun. 2022

Outstanding Graduate Student Instructor Award in University of Michigan CSE   Jul. 2021

ICML 2021 Best Reviewer Award   Jul. 2021

ECCV 2020 Outstanding Reviewer Award (co-listed as one of the top 12 reviewers) Aug. 2020

Best Thesis Award in SNU CSE   Feb. 2018

Recipient of KFAS Graduate Student Scholarship Program   Mar. 2016 – Feb. 2018

Preparatory Association Award for the highest GPA in KAIST   Feb. 2016

Recipient of Fulbright & GE Foundation Scholar Leaders Program   Jun. 2008 – Aug. 2015

LEADERSHIP ROLES AND ACTIVITIES	Organizer of Experience-Sharing Events for CS Candidates Dec. 2012, Mar. 2013, Aug. 2018 Links: http://bit.ly/121208_kaistcs, http://bit.ly/130323_kaistcs, http://bit.ly/180718_snuml
	Member of KAIST Mobile Application Development Group (Team Include) Feb. 2010 – Aug. 2015
	Member of the Undergraduate Students' Association in KAIST Feb. 2007 – Jun. 2008
	Magician (Division: Stage and Manipulation) Dec. 2002 – May 2005
SKILLS	**Computer:** Deep Learning Libraries: PyTorch, TensorFlow Database-related Systems: Apache Pig/Hive, Redis, MariaDB, MySQL Server-Side Development (Distributed System Design, System Engineering) Programming Languages: JAVA, Python, C/C++, Ruby (Jekyll), Scala Mobile Application Development (iOS, Android), Applied Algorithms **Languages:** Korean (Native), English (Fluent), Chinese (Basic)

Last updated: Dec. 30, 2025