Yunseok Jang

Contact Information

: yunseokjang.github.io : yunseokj@umich.edu : Yunseok Jang

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 Superintelligence Labs, Menlo Park, CA — Aug. 2025 – Current
Research Scientist
Manager: Lu Yuan

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 Experience

University of Michigan, Ann Arbor, MI

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 Activities

ICML Workshop Workflow Manager (2019)

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 Awards

Recipient of OpenAI Researcher Access Program	Jul. 2024 – Dec. 2024
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)