

# Yunseok Jang

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## CONTACT INFORMATION

🏠: [yunseokjang.github.io](https://yunseokjang.github.io)

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👤: [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.

[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

**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](#)

	<b>KAKAO</b> , Gyeonggi-do, Korea Software Engineer (iOS and Backend)	Sep. 2012 – Jul. 2014
	<b>ESTsoft</b> , Seoul, Korea Software Engineer (Android and Windows)	Jan. 2011 – Aug. 2012
	<b>Helsinki Metropolia University of Applied Sciences</b> , Espoo, Finland Software Engineer Intern (Embedded System)	Jun. 2010 – Aug. 2010
	<b>KAKAO</b> , Seoul, Korea Software Engineer Intern (Network System)	Jul. 2009 – Dec. 2009
ACADEMIC EXPERIENCE	<b>University of Michigan</b> , 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
	<b>Seoul National University</b> , 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
	<b>KAIST</b> , 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)	
	Journal Reviewer: IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), Journal of Machine Learning Research (JMLR)	
	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/121208_kaistcs), [http://bit.ly/130323\\_kaistcs](http://bit.ly/130323_kaistcs), [http://bit.ly/180718\\_snuml](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)