

# Hyounghun Kim

Website: [hyoungkh.github.io](https://hyoungkh.github.io)

Email: h.kim at unist.ac.kr

kh3323 at gmail.com

## PROFESSIONAL EXPERIENCE

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### UNIST AIGS

Assistant Professor

Ulsan, South Korea

Aug 2022 – Present

### Alexa AI at Amazon

Applied Scientist Intern

Mentor: Aishwarya Padmakumar, Di Jin, Dilek Hakkani-Tur

Sunnyvale, CA

May 2021 – Dec 2021

### Adobe Research

Research Intern

Mentor: Doo Soon Kim, Trung Bui

San Jose, CA

May 2020 – Nov 2020

### Samsung Electronics

Mobile Communications Business

Software Engineer

Suwon, South Korea

Feb 2009 – May 2015

### SK Telecom

SK Group Internship Program

Seoul/Daejeon, South Korea

July 2008 – Aug 2008

### Samsung Electronics

Internship

Suwon, South Korea

Jan 2008

## EDUCATION

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### University of North Carolina at Chapel Hill

Ph.D. in Computer Science, Advisor: Prof. Mohit Bansal

Chapel Hill, NC

Aug 2017 – May 2022

### University of Southern California

M.S. in Computer Science

Los Angeles, CA

Aug 2015 – May 2017

### Yonsei University

B.S. in Electrical & Electronics Engineering

Seoul, South Korea

March 2002 – Feb 2009

## RESEARCH INTERESTS

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Natural Language Processing (NLP), Multimodal Learning (NLP + Computer Vision/Robotics/AR)  
Language Grounding, Dialogue, Multimodal Virtual AI Assistant, Machine Learning, Deep Learning

## PUBLICATIONS

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15. **CONVERSATION CHRONICLES: Towards Diverse Temporal and Relational Dynamics in Multi-Session Conversations**  
Jihyoung Jang, MinSeong Boo, and Hyounghun Kim. Proceedings of EMNLP 2023. [\[pdf\]](#)
14. **Sound of Story: Multi-modal Storytelling with Audio**  
Jaeyeon Bae\*, Seokhoon Jeong\*, Seokun Kang, Namgi Han, Jae-Yon Lee, Hyounghun Kim, and Taehwan Kim. Findings of EMNLP 2023. [\[pdf\]](#)

13. **CoSIM: Commonsense Reasoning for Counterfactual Scene Imagination**  
Hyounghun Kim\*, Abhay Zala\*, and Mohit Bansal. Proceedings of NAACL 2022. [\[pdf\]](#)
12. **RESIN-11: Schema-guided Event Prediction for 11 Newsworthy Scenarios**  
 Xinya Du, Zixuan Zhang, Sha Li, Pengfei Yu, Hongwei Wang, Tuan Lai, Xudong Lin, Ziqi Wang, Iris Liu, Ben Zhou, Haoyang Wen, Manling Li, Darryl Hannan, Jie Lei, Hyounghun Kim, Rotem Dror, Haoyu Wang, Michael Regan, Qi Zeng, Qing Lyu, Charles Yu, Carl Edwards, Xiaomeng Jin, Yizhu Jiao, Ghazaleh Kazeminejad, Zhenhailong Wang, Chris Callison-Burch, Mohit Bansal, Carl Vondrick, Jiawei Han, Dan Roth, Shih-Fu Chang, Martha Palmer, and Heng Ji. Proceedings of NAACL 2022 (demo). [\[pdf\]](#)
11. **On the Limits of Evaluating Embodied Agent Model Generalization Using Validation Sets**  
Hyounghun Kim, Aishwarya Padmakumar, Di Jin, Mohit Bansal, and Dilek Hakkani-Tur. [Insights Workshop](#) at ACL 2022. [\[pdf\]](#)
10. **CAISE: Conversational Agent for Image Search and Editing**  
Hyounghun Kim, Doo Soon Kim, Seunghyun Yoon, Franck Dernoncourt, Trung Bui, and Mohit Bansal. Proceedings of AAAI 2022. [\[pdf\]](#)
9. **NDH-FULL: Learning and Evaluating Navigational Agents on Full-Length Dialogue**  
Hyounghun Kim, Jialu Li, and Mohit Bansal. Proceedings of EMNLP 2021. [\[pdf\]](#)
8. **Continuous Language Generative Flow**  
 Zineng Tang, Shiyue Zhang, Hyounghun Kim, and Mohit Bansal. Proceedings of ACL 2021. [\[pdf\]](#)
7. **FIXMYPOSE: Pose Correctional Captioning and Retrieval**  
Hyounghun Kim\*, Abhay Zala\*, Graham Burri, and Mohit Bansal. Proceedings of AAAI 2021. [\[pdf\]](#)
6. **ARRAMON: A Joint Navigation-Assembly Instruction Interpretation Task in Dynamic Environments**  
Hyounghun Kim, Abhay Zala, Graham Burri, Hao Tan, and Mohit Bansal. Findings of EMNLP 2020. [\[pdf\]](#)
5. **Dense-Caption Matching and Frame-Selection Gating for Temporal Localization in VideoQA**  
Hyounghun Kim, Zineng Tang, and Mohit Bansal. Proceedings of ACL 2020. [\[pdf\]](#)
4. **Modality-Balanced Models for Visual Dialogue**  
Hyounghun Kim, Hao Tan, and Mohit Bansal. Proceedings of AAAI 2020. [\[pdf\]](#)
3. **Improving Visual Question Answering by Referring to Generated Paragraph Captions**  
Hyounghun Kim, and Mohit Bansal. Proceedings of ACL 2019 (short paper). [\[pdf\]](#)  
 \*Best short paper nomination
2. **Development of Augmented Reality Applications in Otolaryngology-Head and Neck Surgery**  
 Austin S. Rose, Hyounghun Kim, Henry Fuchs, and Jan-Michael Frahm. The Laryngoscope, Jul 2019. [\[pdf\]](#)
1. **Towards Fully Mobile 3D Face, Body, and Environment Capture Using Only Head-worn Camera**  
 Young-Woon Cha, True Price, Zhen Wei, Xinran Lu, Nicholas Rewkowski, Rohan Chabra, Zihe Qin, Hyounghun Kim, Zhaoqi Su, Yebin Liu, Adrian Ilie, Andrei State, Zhenlin Xu, Jan-Michael Frahm, and Henry Fuchs. IEEE TVCG Vol. 24, Nov. 2018. [\[pdf\]](#)

## RESEARCH EXPERIENCE

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**MURGe-Lab (in UNC NLP Group)**

Research Assistant, Advisor: Prof. Mohit Bansal

UNC at Chapel Hill

Aug 2018 – May 2022

– NLP + {Computer Vision, Robotics, AR}

**Telepresence Lab**

Research Assistant, Advisor: Prof. Henry Fuchs

UNC at Chapel Hill

Aug 2017 – July 2018

– Augmented Reality in Otolaryngology-Head and Neck Surgery

Collaborated with Dr. Austin Rose (UNC Otolaryngology)

– Ego-Centric Environment Reconstruction (3D Printing, LED Mounts)

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**MENTORING & TEACHING**

Instructor:

CSE403 Deep Learning, UNIST, Fall 2022

AI502 Principle of Deep Learning, UNIST, Spring 2023, 2024

CSE362 Artificial Intelligence, UNIST, Fall 2023

Guest Speaker: COMP 786 Natural Language Processing, UNC, Fall 2020 (VQA, VL Navigation)

Past Mentoring: Abhay Zala (UNC Undergraduate), Zineng Tang (UNC Undergraduate)

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**SERVICES**

Senior Action Editor: ACL Rolling Review (ARR)

Area Chair/Action Editor: ACL Rolling Review (ARR), NAACL

Reviewer: ACL Rolling Review (ARR), ACL, EMNLP, EACL, NeurIPS, CVPR, AAAI, TPAMI

Program Committee: SpLU-RobonLP 2021