

# Hyounghun Kim

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## EDUCATION

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<b>University of North Carolina at Chapel Hill</b> Ph.D. in Computer Science, Advisor: Prof. Mohit Bansal	Chapel Hill, NC Aug 2017 – May 2022 (Expected)
<b>University of Southern California</b> M.S. in Computer Science	Los Angeles, CA Aug 2015 – May 2017
<b>Yonsei University</b> 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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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.
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 – Present

– 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)

## PROFESSIONAL EXPERIENCE

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**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

## SCHOLARSHIPS AND AWARDS

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Honors, Yonsei University

Spring 2007

University Designated Scholarship (Truth), Yonsei University

Spring 2008, Fall 2008

National Science and Technology Scholarship, Korea Student Aid Foundation

Fall 2007

University Designated Scholarship, Yonsei University

Fall 2002, Fall 2003

## SERVICES

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Reviewer: ACL Rolling Review (ARR), ACL, EMNLP, EACL, AACL, TPAMI

Program Committee: SpLU-RoboNLP 2021

## PROGRAMING SKILLS

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Python, JAVA, C/C++, C#, Matlab