

# Hyounghun Kim

Chapel Hill, NC  
+1.213.820.8279  
hyoungkh@cs.unc.edu, kh3323@gmail.com

## Education

**University of North Carolina at Chapel Hill, USA**

Aug 2017 – Present

PhD. in Computer Science

Advisor: Prof. Mohit Bansal

**University of Southern California, USA**

Aug 2015 – May 2017

M.S., in Computer Science

**Yonsei University, Korea**

Feb 2009

B.S., in Electrical & Electronics Engineering

## Publications

**FixMyPose: Pose Correctional Captioning and Retrieval**

Hyounghun Kim\*, Abhay Zala\*, Graham Burri, and Mohit Bansal. AAAI 2021. [coming soon]

**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](#)]

**Dense-Caption Matching and Frame-Selection Gating for Temporal Localization in VideoQA**

Hyounghun Kim, Zineng Tang, and Mohit Bansal. Proceedings of ACL 2020, Seattle, WA. [[pdf](#)]

**Modality-Balanced Models for Visual Dialogue**

Hyounghun Kim, Hao Tan, and Mohit Bansal. Proceedings of AAAI 2020, New York, NY. [[pdf](#)]

**Improving Visual Question Answering by Referring to Generated Paragraph Captions**

Hyounghun Kim and Mohit Bansal. Proceedings of ACL 2019, Florence, Italy (short paper). [[pdf](#)]

**Best short paper nomination**

**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](#)]

**Towards Fully Mobile 3D Face, Body, and Environment Capture Using Only Head-worn Cameras**

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 Transactions on Visualization and Computer Graphics (TVCG) Vol. 24, Nov. 2018. [[pdf](#)]

## Research Experiences

**Research Assistant in UNC-NLP Lab**

Fall 2018 – Present

Advisor: Prof. Mohit Bansal

- NLP + Computer Vision

**Research Assistant in Telepresence Lab**

Fall 2017 – Spring 2018

Advisor: Prof. Henry Fuchs

- Augmented Reality in Otolaryngology-Head and Neck Surgery
  - Collaborated with Dr. Austin Rose (UNC Otolaryngology)
- Ego-Centric Environment Reconstruction (3D Printing, LED Mounts)

Professional Experiences**Adobe Research, USA**

May 2020 – Nov 2020

Research Intern

Mentor: Doo Soon Kim, Trung Bui

**Samsung Electronics, Korea**

Feb 2009 – May 2015

Mobile Communications Business

Software Engineer

**SK Telecom, Korea**

July 2008 – Aug 2008

SK Group Internship Program

**Samsung Electronics, Korea**

Jan 2008

Internship

Honors & Scholarship**Honors, Yonsei University**

Spring 2007

**University Designated Scholarship(Truth), Yonsei University**

Spring 2008, Fall 2008

**National Science and Technology Scholarship,**

Fall 2007

Korea Student Aid Foundation

**University Designated Scholarship, Yonsei University**

Fall 2002, Fall 2003

Research Interest

Natural Language Processing, Deep Learning / Machine Learning, Computer Vision, Augmented Reality, Multimodal Learning, etc.

Programing Skills**Languages**

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