

# Hyounghun Kim

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## Education

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

Aug 2017 -Present

PhD. in Computer Science

Advisor: Prof. Mohit Bansal

Co-advisor: Prof. Henry Fuchs

### **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

### **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

Co-advisor: Prof. Henry Fuchs

- NLP + Computer Vision + AR

### **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

### **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