

# Hyounghun Kim

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## Education

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|---|---------------------|
| <b>University of North Carolina at Chapel Hill, USA</b><br>PhD. in Computer Science<br>Advisor: Prof. Mohit Bansal<br>Co-advisor: Prof. Henry Fuchs | Aug 2017 -Present   |
| <b>University of Southern California, USA</b><br>M.S., in Computer Science  | Aug 2015 – May 2017 |
| <b>Yonsei University, Korea</b><br>B.S., in Electrical & Electronics Engineering  | Feb 2009            |

## Publications

- **Modality-Balanced Models for Visual Dialogue**  
Hyounghun Kim, Hao Tan, and Mohit Bansal  
Proceedings of AAAI 2020, New York, NY.
- **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

### **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