

# Hyounghun Kim

Chapel Hill, NC

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## 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

**NDH-Full: Learning and Evaluating Navigational Agents on Full-Length Dialogue**

Hyounghun Kim, Jialu Li, and Mohit Bansal. Proceedings of EMNLP 2021.

**Continuous Language Generative Flow**

Zineng Tang, Shiyue Zhang, Hyounghun Kim, and Mohit Bansal. Proceedings of ACL 2021. [\[pdf\]](#)

**FixMyPose: Pose Correctional Captioning and Retrieval**

Hyounghun Kim\*, Abhay Zala\*, Graham Burri, and Mohit Bansal. Proceedings of AAAI 2021. [\[pdf\]](#)

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

Fall 2018 – Present

Advisor: Prof. Mohit Bansal

- NLP + {Computer Vision, Robot, 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

#### **Alexa AI at Amazon, USA**

May 2021 – Present

Applied Scientist Intern

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

#### **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.

### Services

Reviewer: ACL, EMNLP, EACL, AACL, TPAMI

Program Committee: SpLU-RoboNLP 2021

## Programing Skills

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