

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

Continuous Language Generative Flow

Zineng Tang, Shiyue Zhang, **Hyounghun Kim**, and Mohit Bansal. Proceedings of ACL 2021.

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/VR}

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, 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

Programming Skills

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