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, Korea Student Aid Foundation   Fall 2007
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, AAAI, TPAMI
Program Committee: SpLU-RoboNLP 2021

Programing Skills

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