

# HWANHEE LEE - 이환희

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## EDUCATION

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Ph.D., Electrical and Computer Engineering, Seoul National University, 2017.03 - 2023.02 (Expected)  
- Machine Intelligence Laboratory (Advisor: Kyomin Jung)

B.S., Electrical and Computer Engineering, Seoul National University, 2013.03 - 2017.02

## RESEARCH INTERESTS

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My research interest is in the field of Natural Language Processing, especially about the following items.

- Question Answering
- Grounded Text Generation
- Text Evaluation
- Language Grounding with Vision

## PUBLICATION

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**Hwanhee Lee**, Seunghyun Yoon, Franck Dernoncourt, Trung Bui, and Kyomin Jung, UMIC: An Un-referenced Metric for Image Captioning via Contrastive Learning, ACL 2021 (Short)

Taegwan Kang, **Hwanhee Lee**, Byeongjin Choe and Kyomin Jung, Entangled Bidirectional Encoder to Autoregressive Decoder for Sequential Recommendation, SIGIR 2021 (Short)

**Hwanhee Lee**, Seunghyun Yoon, Franck Dernoncourt, Doo Soon Kim, Trung Bui, Joongbo Shin and Kyomin Jung, KPQA: A Metric for Generative Question Answering Using Keyphrase Weights, NAACL 2021 (Long)

Jaewoong Lee\*, Heejoon Lee\*, **Hwanhee Lee**, Kyomin Jung, Learning to Select Question-Relevant Relations for Visual Question Answering, NAACL 2021 Workshop on Multimodal Artificial Intelligence (MAI)

Hyunkyung Bae, Minwoo Lee, Ahhyeon Kim, **Hwanhee Lee**, Cheongjae Lee, Cheoneum Park, Donghyeon Kim, Kyomin Jung, Relevance Similarity Scorer and Entity Guided Reranking for Knowledge Grounded Dialog System, AAAI 2021 Workshop on Dialog System Technology Challenge (DSTC)

**Hwanhee Lee**, Seunghyun Yoon, Franck Dernoncourt, Doo Soon Kim, Trung Bui, Kyomin Jung, ViL-BERTScore: Evaluating Image Caption Using Vision-and-Language BERT, EMNLP 2020 Workshop on Evaluation and Comparison of NLP Systems (Eval4NLP)

Seunghyun Yoon, Subhadeep Dey, **Hwanhee Lee** and Kyomin Jung, Attentive Modality Hopping Mechanism for Speech Emotion Recognition - (Oral), ICASSP 2020

**Hwanhee Lee**, Seunghyun Yoon, Franck Dernoncourt, Doo Soon Kim, Trung Bui and Kyomin Jung, DSTC8-AVSD: Multimodal Semantic Transformer Network with Retrieval StyleWord Generator, AAAI 2020 Workshop on Dialog System Technology Challenge (DSTC)

**Hwanhee Lee** and Kyomin Jung, Insensibility of Question Word Order in Visual Question Answering, NAACL 2019 Workshop on Shortcomings in Vision and Language (SiVL)

Yanghoon Kim, **Hwanhee Lee**, Joongbo Shin, Kyomin Jung, Improving Neural Question Generation using Answer Separation, AAAI 2019

Yanghoon Kim, **Hwanhee Lee**, Kyomin Jung, AttnConvnet at SemEval-2018-Task 1: Attention-based Convolutional Neural Networks for Multi-label Emotion Classification, NAACL 2018 Workshop on Semantic Evaluation(SemEval)

## PROJECTS

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- Factual Error Correction on Grounded Text Generation Systems, SNU - *joint work with Adobe Research*, 2021.02 - Current
- Knowledge-Grounded Conversational Question Answering System, SNU - *joint work with Hyundai AIRLab*, 2020.09 - 2021.09
  - Led to publication on DSTC9
- Evaluation Metric for Grounded Text Generation Systems, SNU - *joint work with Adobe Research*, 2019.12 - 2021.01
  - Led to publication on NAACL, Eval4NLP
- Deep Learning Based Context-awareness Dialog System, SNU - *joint work with Samsung Advanced Institute of Technology*, 2019.05 - 2020.05
  - Led to publication on DSTC8
- Global Internet Big Text Data Monitoring(part of Open Domain Question Answering System), SNU, 2019.01 - 2020.06
- Deep Learning Based Recommendation System, SNU - *joint work with Laontrip*, 2017.03 - 2017.12
- Deep Learning Based Fraud Detection System, SNU - *joint work with KCB*, 2017.03 - 2017.09

## SCHOLARSHIPS AND AWARDS

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- Scholarship from Foundation for Electronics, Electrical and Computer Engineering, *Granted by SNU ECE*, 2018 Spring
- National Science & Technology Scholarship, *Granted by Korea Student Aid Foundation*, 2013 Spring - 2016 Fall

## TEACHING EXPERIENCE

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- Teaching Assistant, Seminar on Deep Learning, SNU - 2019 Fall
- Teaching Assistant, Machine Learning, SNU - 2018 Spring, 2019 Spring
- Teaching Assistant, Programming Methodology, SNU - 2017 Spring, 2020 Spring