

Seongho Choi

Ph.D Candidate at Seoul National University
Building 302, Room 314-1, 1 Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea, 08826
(+82) 10-6762-7321 | shchoi@bi.snu.ac.kr | liveseongho.github.io | [in](#) | [G](#)

EDUCATION

Seoul National University Ph.D. Candidate in Computer Science and Engineering, Advisor: Byoung-Tak Zhang	Seoul, Republic of Korea Sep. 2020 – Current
Seoul National University Ph.D. Student in Computer Science and Engineering	Seoul, Republic of Korea Mar. 2017 – Aug. 2020
Seoul National University Bachelor of Science in Computer Science and Engineering	Seoul, Republic of Korea Mar. 2013 – Feb. 2017

PUBLICATIONS

1. **Seongho Choi**, Kyoung-Woon On, Yu-Jung Heo, Ahjeong Seo, Youwon Jang, Minsu Lee, and Byoung-Tak Zhang, “DramaQA: Character-Centered Video Story Understanding with Hierarchical QA”, *Association for the Advancement of Artificial Intelligence (AAAI)*, Feb 2021.
2. Yu-Jung Heo, Kyoung-Woon On, **Seongho Choi**, Jaeseo Lim, Jinah Kim, Jeh-Kwang Ryu, Byung-Chull Bae, and Byoung-Tak Zhang, “Constructing Hierarchical Q&A Datasets for Video Story Understanding”, *arXiv preprint*, April 2019.
3. Eun-Sol Kim, Kyoung-Woon On, Jongseok Kim, Yu-Jung Heo, **Seong-Ho Choi**, Hyun-Dong Lee, and Byoung-Tak Zhang, “Temporal Attention Mechanism with Conditional Inference for Large-Scale Multi-label Video Classification”, *European Conference on Computer Vision (ECCV) Workshops*, September 2018.
4. Kyung-Min Kim, **Seong-Ho Choi**, Jin-Hwa Kim, and Byoung-Tak Zhang, “Multimodal Dual Attention Memory for Video Story Question Answering”, *European Conference on Computer Vision (ECCV)*, September 2018.
5. Kyung-Min Kim, Min-Oh Heo, **Seong-Ho Choi**, and Byoung-Tak Zhang, “DeepStory: Video StoryQA by Deep Embedded Memory Network”, *International Joint Conference on Artificial Intelligence (IJCAI)*, July 2017.

DOMESTIC PUBLICATIONS

1. **Seongho Choi**, Kyoung-Woon On, Yu-Jung Heo, Gi-Cheon Kang, and Byoung-Tak Zhang, “DramaQA: Human Level Video Story Understanding through Multilevel Question-Answering”, *Korea Software Congress (KSC)*, December 2019. (Best presentation award)
2. **Seong-Ho Choi**, and Byoung-Tak Zhang, “Hierarchical Video Story Modeling using Attention by Question”, *Korea Software Congress (KSC)*, December 2018. (Best paper award)
3. Kijong Han, **Seong-Ho Choi**, Giyeon Shin, Byoung-Tak Zhang, and Key-Sun Choi, “Character Identification on Multiparty Dialogues using Multimodal Features”, *Annual Conference on Human & Cognitive Language Technology (HCLT)*, October, 2018. (Best paper award)
4. **Seong-Ho Choi**, Kyung-Min Kim, and Byoung-Tak Zhang, “Multi-modal Video Story Modeling for Drama Question Answering”, *Korea Computer Congress (KCC)*, June 2018.
5. **Seong-Ho Choi**, Sungjae Cho, Jin-Hwa Kim, Jinah Kim, and Byoung-Tak Zhang, “VTT: Visual Turing Test Dataset for Understanding of Video Story”, *Korea Software Congress (KSC)*, December 2017.

6. Kyung-Min Kim, **Seong-Ho Choi**, and Byoung-Tak Zhang, “Movie Question-Answering using Deep Embedded Memory Networks”, *Korea Computer Congress (KCC)*, June 2017.
7. **Seong-Ho Choi**, Eun-Sol Kim, and Byoung-Tak Zhang, “An Intention Prediction Method for Dialogue using Paragraph Vector”, *Korea Computer Congress (KCC)*, June 2016.

EXPERIENCE

Workshop Co-organizer

European Conference on Computer Vision (ECCV) 2020 Aug. 2020
 Video Turing Test: Toward Human-Level Video Story Understanding

DramaQA Challenge Organizer

European Conference on Computer Vision (ECCV) 2020 Aug. 2020

Workshop Organizer

International Conference on Computer Vision (ICCV) 2019 Nov. 2019
 Video Turing Test: Toward Human-Level Video Story Understanding

DramaQA Challenge Organizer

Korea Software Congress (KSC) 2019 Dec. 2019

Research Assistant

Biointelligence Lab, Seoul National University Apr. 2016 – Feb. 2017

TEACHING

- **Teaching Assistant** at Seoul National University Spring 2020
Artificial Intelligence (4190.408)
- **Main Teaching Assistant** at Seoul National University Spring 2019
Artificial Intelligence (4190.408)
- **Main Teaching Assistant** at Seoul National University Spring 2018
Artificial Intelligence (4190.408)
- **Main Teaching Assistant** at Seoul National University Spring 2017
Discrete Mathematics (4190.101)
- **Programming Mentor** at Codewings 2016 – 2018
Python, Java, AP Computer Science

PROJECTS

- Development of QA systems for Video Story Understanding to pass the Video Turing Test 2017 – 2021
 Supported by the Government of South Korea (Ministry of Science and ICT, MSIT)
- Development of Facility Self-diagnosis System 2017
 Supported by Samsung Electronics
- Development of Technology to Improve Customer Driving Tendency Recognition Accuracy 2017
 Supported by Hyundai NGV
- Self-learning of Optical Inspection Algorithms using Image-based Deep Learning 2017
 Supported by Samsung Display

- Development of AI Application Method and Field Task Feasibility Verification 2017
Supported by Doosan

AWARDS AND SCHOLARSHIPS

- Best Presentation Award (Korea Software Congress) 2019
- Best Paper Award (Korea Software Congress) 2018
- Best Paper Award (Annual Conference on Human & Cognitive Language Technology) 2018
- Ranked 5 of 312 (in-the-money) in The 2nd YouTube-8M Video Understanding Challenge (Google Research) 2018
- National Scholarship – Science and Engineering (Korea Student Aid Foundation) 2016
- Academic Scholarship (Seoul National University) 2016
- Academic Scholarship (Seoul National University) 2015
- Academic Scholarship (Seoul National University) 2014