Byeongchang Kim

8F Bldg 944, 1 Gwanak-ro, Gwanak-gu, Seoul, Korea
☎ +82 (0)2 880 7289
✉ byeongchang.kim@vision.snu.ac.kr
🖱 bckim92.github.io

Research Interests

My research is focusing on generating sentences from various types of contexts (e.g. image, text and audio).

Education

Mar 16-Current **Seoul National University (SNU)**, *Seoul, Korea.*
- Integrated M.S./Ph.D. in Computer Science and Engineering
- Advisor: *Prof. Gunhee Kim* (Vision and Learning Laboratory)

Mar 11-Feb 16 **Seoul National University (SNU)**, *Seoul, Korea.*
- B.S. in Biosystems Engineering & Computer Science and Engineering

Publications

International Conferences/Journals

2019 Dongjoo Kim, **Byeongchang Kim**, Hyunmin Lee, Gunhee Kim, *AudioCaps: Generating Captions for Audio in The Wild*, **NAACL-HLT 2019**.

2019 **Byeongchang Kim**, Hyunwoo Kim, Gunhee Kim, *Abstractive Summarization of Reddit Posts with Multi-level Memory Networks*, **NAACL-HLT 2019**.

2018 Cesc Chunseong Park, **Byeongchang Kim**, Gunhee Kim, *Towards Personalized Image Captioning via Miultimodal Memory Networks*, **IEEE TPAMI 2018** (SCI, IF=9.455).

2017 Cesc Chunseong Park, **Byeongchang Kim**, Gunhee Kim, *Attend to You: Personalized Image Captioning with Context Sequence Memory Networks*, **CVPR 2017 (Spotlight)** (Acceptance = 215/2680 ∼ 8.0%).

Workshop

2017 Cesc Chunseong Park, **Byeongchang Kim**, Gunhee Kim, *Attend to You: Personalized Image Captioning with Context Sequence Memory Networks*, **CVPR 2017 Language and Vision workshop**.

Work and Research Experiences

Sep 15-Current	**Vision and Learning Lab**, *Graduate Researcher*, Seoul, Korea.

- Worked on audio captioning, generating natural language description for any kind of audio in the wild.
- Worked on reddit posts summarization, which is highly abstractive summarization dataset and proposed memory network based model.
- Worked on personalized image captioning, generating image captions with user's active vocabularies.
- Designed and implemented real-time 3D reconstruction algorithms on mobile device.
- Developed motion planning algorithm in humanoid robot using deep learning.

Dec 14-Feb 15	**Intelligence Data Systems Lab**, *Undergraduate Research Opportunity Program (UROP)*, Seoul, Korea.

- Implemented & developed ranking algorithms for news in Korean.

Sep 14-Dec 14	**Real-Time Ubiquitous Lab**, *Undergraduate Research Opportunity Program (UROP)*, Seoul, Korea.

- Modified Android to support multiple screens.

Teaching Experience

July 18-Aug 18	Teaching Assistant of Computer Vision, SNU 4th Industrial Revolution Academy
Jun 17-Aug 17	Teaching Assistant of Computer Vision, SNU 4th Industrial Revolution Academy
Sep 16-Jun 17	Tutor, Samsung Convergence Software Course (SCSC) Mentoring Program
Sep 16-Dec 16	Teaching Assistant of Probabilistic Graphical Models (M1522.001300)
Mar 16-Jun 16	Teaching Assistant of Computer Vision (M1522.001000)

Awards

2016-2017	SCSC Mentoring Scholarship	*Granted by Samsung Electronics*
2016	TA · RA Scholarship	*Granted by Seoul National University*
2012-2014	Tuition Scholarship	*Granted by Seoul National University*

Invited Talks

8 Sep 2017	Kakao @ Korea

Skills

Programming Language/Library

Python (Tensorflow, scikit-learn, OpenCV, Fabric), C++ (PCL, libfreenect2, Gazebo), Java (TangoSDK, Android)

Languages

Korean (Native), English (Intermediate)