Jiyoung **Lee**

Software Engineer · Researcher

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Education

Yonsei University — *Seoul, S.Korea*

Ph.D. Candidate in School of Electrical and Electronic Engineering — *Mar. 2016 - Present*

- Working with Prof. Kwanghoon Sohn.

Yonsei University — *Seoul, S.Korea*

B.S. in School of Electrical and Electronic Engineering — *Mar. 2012 - Feb. 2016*

Publication

"Graph Regularization Network With Semantic Affinity for Weakly-supervised Temporal Action Localization" (Submit)

Jungin Park, **Jiyoung Lee**, Sangryul Jeon, Seungryong Kim, and Kwanghoon Sohn — *TBD*

- IEEE International Conference on Image Processing (ICIP)

"Audio-Visual Attention Networks for Emotion Recognition"

Jiyoung Lee, Sunok Kim, Seungryong Kim, and Kwanghoon Sohn — *Oct. 2018*

- ACM Multimedia Workshop- Workshop on Audio-Visual Scene Understanding for Immersive Multimedia (MMW)

"Learning to Detect, Associate, and Recognize Human Actions and Surrounding Scenes in Untrimmed Videos"

Jungin Park, Sangryul Jeon, Seungryong Kim, **Jiyoung Lee**, Sunok Kim, and Kwanghoon Sohn — *Oct. 2018*

- ACM Multimedia Workshop- The 1st Workshop and Challenge on Comprehensive Vidoe Understanding in the Wild (MMW)

"Spatiotemporal Attention Based Deep Neural Networks for Emotion Recognition"

Jiyoung Lee, Sunok Kim, Seungryong Kim, and Kwanghoon Sohn — *Apr. 2018*

- IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)

"Automatic 2D-to-3D Conversion using Multi-scale Deep Neural Network"

Jiyoung Lee, Hyungjoo Jung, Youngjung Kim, and Kwanghoon Sohn — *Sep. 2017*

- IEEE International Conference on Image Processing (ICIP)

Research Experiences

Intelligent Virtual Reality: Deep Audio-Visual Representation Learning for Multimedia Perception and Reproduction — *S.Korea*

Funded by Institute of Information & Communication Technology. — *Sep. 2017 – Present*

- Developed deep network using audio-visual data.

Fundamental Study of Vision Algorithms for Comprehensive and Through Understanding of Videos — *S.Korea*

Funded by Ministry of Science, ICT and Future Planning. — *Sep. 2017 - Present*

- Developed an algorithm for understanding untrimmed videos.

Emotional Intelligence Technology to Infer Human Emotion and Carry on Dialogue Accordingly — *S.Korea*

Funded by Institute of Information & Communication Technology. — *Sep. 2017 - Jun. 2018*

- Developed an algorithm for inferring human emotion from multi-spectral images.

High Quality 2D-to-Multiview Contents Generation from Large-Scale RGB+D Database — *S.Korea*

Funded by Institute of Information & Communication Technology. — *Mar. 2016 – Aug. 2017*

- Developed deep network for inferring high-quality depth from a single 2-D image.

Yonsei University, Dept. of Electrical and Electronic Engineering *S.Korea*

Teaching Assistant. *Sep. 2017 – Present*

- Digital signal processing.

Honors & Awards

Domestic

2018	**Silver Prize**, Ulsan KBS UCC Contest	*S.Korea*
2016	**2nd Award**, Sungshin Startup 4th Idea Contest	*S.Korea*
2016	**Finalist & Award**, University Startup 300	*S.Korea*
2015	**Award**, Campus Reboot Startup Camp	*S.Korea*

Skills

Programming	Python, C/C++, JAVA, Ruby, Lua, MATLAB, OpenCV, LaTeX, Linux
Deep learning	PyTorch, Tensorflow, Caffe, Torch
Web	Django, Ruby on Rails, HTML5, CSS, Javascript
Languages	Korean, English