

# Jaedong Hwang

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**RESEARCH INTERESTS**    Computer Vision, Cognitive Science, Machine Learning, and Reinforcement Learning

**EDUCATION**    **Seoul National University**, Korea    Aug 2019 - Aug 2021  
*Graduate Student*    (expected)  
Major: Electrical and Computer Engineering  
Advisor: Bohyung Han

**Seoul National University**, Korea    2013 - Aug 2019  
*Bachelor of Science (Summa cum laude)*    (Military Service: 2015 - 2017)  
Major: Computer Science and Engineering (GPA: 4.18/4.30)  
minor: Brain-Mind-Behavior (GPA: 4.08/4.30)  
Overall GPA: 4.10/4.30

**ACADEMIC EXPERIENCE**    **Computer Vision lab**, Seoul National University, Korea    Sep 2018 - Aug 2019  
*Research Intern*,    Advisor: Bohyung Han  
Developed end-to-end weakly-supervised instance segmentation via object detection. Re-searching general action localization framework on top of any existing algorithms.

**CLVR**, University of Southern California, CA    Mar 2018 - May 2018  
*Visiting Student*,    Advisor: Joseph Lim  
Developed a demonstration quality assessment framework via Meta-Learning.

**BioIntelligence Lab**, Seoul National University, Korea    Jul 2014 - Apr 2015  
*Research Intern*,    Advisor: Byeong-Tak Zhang  
Developed discourse system which acts as a cashier via Hidden Markov Model.

**INDUSTRIAL EXPERIENCE**    **Adobe Research**, Adobe, CA    Jun 2020 - Nov 2020  
*Deep Learning Research Intern*,    Mentor: Joon-Young Lee    (expected)  
Due to COVID-19, I have worked remotely in South Korea regarding panoptic segmentation.

**T-Brain**, SKT, Korea    May 2018 - Aug 2018  
*Research Intern*  
Developed a demonstration suitability assessment framework for imitation learning leveraging Model-Agnostic Meta-Learning (MAML)

**Cybercrime Investigation Unit**, Seoul Metropolitan Police Agency, Korea    2015 - 2017  
*Investigator* as a substitute for military service  
Investigated and arrested criminals regarding illegal Online Gamble (\$2.5B scale), malware, hacking, and making illegal explosives

**PUBLICATIONS**    Jaedong Hwang\*, Seohyun Kim\*, Jeany Son, Bohyung Han. **Weakly Supervised Instance Segmentation by Deep Community Learning**. arXiv. 2020. (\*: equally contributed)

Jaedong Hwang\*, Sanghyeok Park\*, Seokjin Lee\*, Yeong-Gil Shin. **Robust harmonic field based tooth segmentation in real-life noisy scanned mesh.** SPIE Medical Imaging. 2019. (\*: equally contributed)

Te-Lin Wu, Jaedong Hwang, Jingyun Yang, Shaofan Lai, Carl Vondrick, Joseph Lim **Learning from Noisy Demonstration Sets via Meta-Learned Suitability Assessor.** Open-Review. 2018.

Seungwon Lee\*, Jaedong Hwang\*, Eunsol Kim, Byoung-Tak Zhang. **An adaptive computational discourse system based on data-driven learning algorithm.** International Symposium on advanced Intelligent Systems (ISIS). 2015. (Best Session Paper Award)

<b>AWARDS &amp; HONORS</b>	Full scholarship granted by <b>Seoam Yoon Se Young Foundation</b>	2013 - 2019
	<b>Best Paper of department of Brain-Mind-Behavior</b>	2017
	<b>Seoul Metropolitan Police Agency Award Certificate</b>	2016
	<b>ISIS 2015 Best Session Paper Award</b>	2015
	<b>Jongha Fellowship</b>	2014

<b>OTHER PROJECTS</b>	<b>Multi Label Generative Adversarial Network</b>	2017
	Advisor: Byeong-Tak Zhang This project was conducted in “Brain-Mind Behavior Individual Study (2071.416, prof. Sowon Hahn).” The model combined both a Generative Adversarial Network and a traditional CNN classifier. The dataset is made up of images, style and genre labels	

	<b>Style Recognition of Artworks</b>	2017
	This project was conducted in “Computer Vision (M 1522.001000, prof. Gun Hee Kim).” We developed a style recognition model which outperforms human experts. According to the project, Using SVM and PCA with a CNN feature extractor is better than end-to-end deep neural network (Inception).	

<b>ACADEMIC SERVICES</b>	<b>Reviewer:</b> ECCV 2020, WACV 2021	
	<b>Volunteer:</b> ICLR 2020	
	<b>Teaching Assistant:</b> Digital Computer Concept and Practice, 2020 Spring	

<b>OTHER EXPERIENCE</b>	<b>Seoul National University Philharmonic Orchestra, Korea</b>	
	• Server Administrator	2016 - Present
	• 2nd Violinist	2013 - 2017
	• Chief of department of Data Management	2014 - 2015
	<b>National Museum of Modern and Contemporary Art, Korea</b>	
	• Volunteer	2017
	<b>Guahm Middle School, Korea</b>	
• Mentor	2013 - 2015	