

Eungyeup Kim

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INTERESTS	Robust ML under distribution shifts, Computer vision, Dataset bias, Self-supervised learning.	
EDUCATION	Carnegie Mellon University	
	<i>Ph.D. in Computer Science</i>	Sep 2022 – Present
	• Advisor: Prof. Matt Fredrikson	
	Korea Advanced Institute of Science and Technology (KAIST)	
PUBLICATIONS	<i>M.S. in Artificial Intelligence</i>	Mar 2020 – Aug 2021
	• Advisor: Prof. Jaegul Choo	
	Hanyang University	
	<i>B.S. in Electronic Engineering</i>	Mar 2013 – Aug 2019
PUBLICATIONS	CONFERENCES	
	[1] Jungsoo Lee*, Eungyeup Kim* , Juyoung Lee, Jihyeon Lee, and Jaegul Choo, “Learning Debaised Representation via Disentangled Feature Augmentation,” in <i>Conference on Neural Information Processing Systems (NeurIPS)</i> , 2021, <i>Oral Presentation</i> (<1% acceptance rate). (*: equal contribution) [paper] [code]	
	[2] Eungyeup Kim* , Jihyeon Lee*, and Jaegul Choo, “BiaSwap: Removing Dataset Bias with Bias-Tailored Swapping Augmentation,” in <i>IEEE International Conference on Computer Vision (ICCV)</i> , 2021. (*: equal contribution) [paper]	
	[3] Eungyeup Kim* , Sanghyeon Lee*, Jeonghoon Park*, Somi Choi, Choonghyun Seo, and Jaegul Choo, “Deep Edge-Aware Interactive Colorization against Color Bleeding Effects,” in <i>IEEE International Conference on Computer Vision (ICCV)</i> , 2021, <i>Oral Presentation</i> (3% acceptance rate). (*: equal contribution) [paper] [project]	
	[4] Junsoo Lee*, Eungyeup Kim* , Yunsung Lee, Dongjun Kim, Jaehyuk Chang, and Jaegul Choo, “Reference-Based Sketch Image Colorization using Augmented-Self Reference and Dense Semantic Correspondence,” in <i>IEEE Conference on Computer Vision and Pattern Recognition (CVPR)</i> , 2020. (*: equal contribution) [paper] [project]	
	[5] Wonwoong Cho*, Kangyeol Kim*, Eungyeup Kim , Hyunwoo Kim, and Jaegul Choo, “Unpaired Image Translation via Adaptive Convolution-based Normalization,” in <i>arXiv preprint arXiv: 1911.13271</i> , 2019. (*: equal contribution) [paper]	
RESEARCH EXPERIENCE	AI Lab , Kakao Enterprise Corp.	
	<i>Research Scientist</i>	May 2021 – Present
	• Conducted research on feature-level data augmentation for debiasing. • Published a debiasing paper at <i>NeurIPS 2021 (Oral presentation)</i> [1].	
	Data and Visual Analytics Lab , KAIST	
SCHOLARSHIPS	<i>Graduate Student</i>	Sep 2019 – Aug 2021
	• Conducted research on data augmentation via generative models for debiasing. • Published a debiasing paper at <i>ICCV 2021</i> [2].	
	AI Research , Naver Webtoon Corp.	
	<i>Collaborative Researcher</i>	Sep 2019 – Nov 2020
SCHOLARSHIPS	• Conducted collaborative research on sketch colorization and edge-aware colorization. • Published two colorization papers at <i>CVPR 2020</i> and <i>ICCV 2021 (Oral presentation)</i> [3, 4].	
	Kwanjeong Scholarship, Kwanjeong Educational Foundation	Sep 2022 – Aug 2027
	KAIST Support Scholarship, KAIST	Mar 2020 – Aug 2021
	Academic Excellence Scholarship, Hanyang University	Sep 2016 – Dec 2018
SCHOLARSHIPS	Freshman Scholarship, Hanyang University	Mar 2013

INVOLVEMENTS & ACTIVITIES	Invited talk , SNU AIIS Retreat 2022	
	• Presented on “Learning debiased representation.” [1]	Apr 2022
	Invited talk , NeurIPS 2021 Social: ML in Korea	
	• Presented on “Learning debiased representation.” [1]	Dec 2021
	Invited talk , Hyundai Motor Group AI Research Seminar	
	• Presented on “Sketch colorization” [4] and “Unsupervised colorization.”	Jun 2020, Oct 2020
	Tutorial , Samsung DS AI Expert Program	
	• Presented on “Image-to-image translation.”	Aug 2020
	Tutorial , NVIDIA AI Conference	
	• Presented on “Image classification and object detection.”	Aug 2018, Jul 2019
LANGUAGES	Korean : Native language.	
	English : Fluent.	
	• IBT TOEFL: 101 (Reading: 28, Listening: 26, Speaking: 23, Writing: 24) • GRE: Verbal (154, 63%), Quantitative (169, 94%), Writing (3.5, 37%)	
SKILLS	L ^A T _E X, Python, PyTorch, TensorFlow, MATLAB, C++	
LEADERSHIP EXPERIENCE	ML/DL Paper Study , Data and Visual Analytics Lab, KAIST	
	<i>Team Leader</i>	Dec 2019 – Aug 2021
	• Led paper study group of 10 graduate students in topics of both machine learning and deep learning.	
	Hanyang International Volunteer Association (HIVA) , International Affairs, Hanyang University	
	<i>Leader</i>	Jun 2016 – Dec 2018
	• Organized mentoring program for international students for 4 consecutive semesters.	
REFERENCES	Matt Fredrikson	
	Associate Professor	
	School of Computer Science, CMU	
	mfredrik@cmu.edu	
	Jaegul Choo	
	Associate Professor	
	Kim Jaechul Graduate School of Artificial Intelligence, KAIST	
	jchoo@kaist.ac.kr	
	Edward Choi	
	Assistant Professor	
	Kim Jaechul Graduate School of Artificial Intelligence, KAIST	
	edwardchoi@kaist.ac.kr	
	Juyoung Lee	
	Senior Research Scientist	
	AI Lab, Kakao Enterprise	
	michael.jy@kakaenterprise.com	