Kaihua Tang

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EDUCATION

Nanyang Technological University, Singapore

■ Ph.D in Computer Science

Jul 2018 - Dec 2021

· Adviser: Asst. Prof. Hanwang Zhang

Shanghai Jiao Tong University, China, Waseda University, Japan

■ Dual M.S. Program in Computer Science

Sep 2015 – Mar 2018

· Adviser: Prof. Lizhuang Ma & Prof. Sei-ichiro Kamata

Shanghai Jiao Tong University, Shanghai, China

B.S. in Computer Science
 Adviser: Prof. Kai Yu

Sep 2011 – Jul 2015

Second Major in Chinese Painting

Sep 2012 – Jul 2014

· Adviser: Qi Wang

WORK EXPERIENCE

Nanyang Technological University, Singapore

Postdoctoral Research Scientist

Jan 2022 - Now

• Working with Asst. Prof. Hanwang Zhang

PUBLICATIONS

Accumulated 1400+ citations in 4 years (https://scholar.google.com/citations?user=WuO1sSkAAAAJ)

- Kaihua Tang, Mingyuan Tao, Jiaxin Qi, Zhenguang Liu, Hanwang Zhang, "Invariant Feature Learning for Generalized Long-Tailed Classification," in ECCV, Oct 2022.
- Xuanyu Yi, Kaihua Tang, Xian-Sheng Hua, Joo-Hwee Lim, Hanwang Zhang, "Identifying Hard Noise in Long-Tailed Sample Distribution," Oral Presentation, in ECCV, Oct 2022.
- Jiaxin Qi, Kaihua Tang, Qianru Sun, Xian-Sheng Hua, Hanwang Zhang, "Class Is Invariant to Context and Vice Versa: On Learning Invariance for Out-Of-Distribution Generalization," in ECCV, Oct 2022.
- Kaihua Tang, Mingyuan Tao, Hanwang Zhang, "Adversarial Visual Robustness by Causal Intervention," arXiv preprint, 2021.
- Xinting Hu, Kaihua Tang, Chunyan Miao, Xian-Sheng Hua, Hanwang Zhang, "Distilling Causal Effect of Data in Class-Incremental Learning," in CVPR, Jun 2021.
- Yulei Niu, Kaihua Tang, Hanwang Zhang, Zhiwu Lu, Xian-Sheng Hua, Ji-Rong Wen, "Counterfactual VQA: A Cause-Effect Look at Language Bias," in *CVPR*, Jun 2021.
- Kaihua Tang, Jianqiang Huang, Hanwang Zhang, "Long-Tailed Classification by Keeping the Good and Removing the Bad Momentum Causal Effect," in *NeurIPS*, Dec 2020.
- Mitra Tajrobehkar, Kaihua Tang, Hanwang Zhang, Joo-Hwee Lim, "Align R-CNN: A Pairwise Head Network for Visual Relationship Detection," in *TMM*, 2021.
- Kaihua Tang, Yulei Niu, Jianqiang Huang, Jiaxin Shi, Hanwang Zhang, "Unbiased Scene Graph Generation from Biased Training," **Oral Presentation**, in *CVPR*, Jun 2020.
- Xinting Hu, Yi Jiang, Kaihua Tang, Hanwang Zhang, Chunyan Miao, Jingyuan Chen, "Learning to Segment the Tail," in *CVPR*, Jun 2020.
- Kaihua Tang, Hanwang Zhang, Baoyuan Wu, Wenhan Luo, Wei Liu, "Learning to Compose Dynamic Tree Structures for Visual Contexts," Oral & Best Paper Finallists (45/5160), in CVPR, Jun 2019.
- Xu Yang, Kaihua Tang, Hanwang Zhang, Jianfei Cai, "Auto-Encoding Scene Graphs for Image Captioning," Oral Presentation, in CVPR, Jun 2019.
- Kaihua Tang, Sei-ichiro Kamata, Xiaonan Hou, Shouhong Ding, Lizhuang Ma, "Eigen-Aging Reference Coding for Cross-Age Face Verification and Retrieval," in *ACCV*, Nov 2016.

PROJECTS

Accumulated more than 2000+ Github Stars in 4 years (https://github.com/KaihuaTang)

Scene-Graph-Benchmark.pytorch (750+ Stars)

• Github Link: https://github.com/KaihuaTang/Scene-Graph-Benchmark.pytorch

2020

	Long-Tailed-Recognition.pytorch (450+ Stars)		
	 Github Link: https://github.com/KaihuaTang/Long-Tailed-Recognition.pytorch VQA2.0-Recent-Approachs-2018.pytorch (250+ Stars) 		2020
	Github Link: https://github.com/KaihuaTang/VQA2.0-Recent-Approachs-2018.p	ytorch	2019
		-	
ACADEMIC	Organizing Committees		
SERVICES	 2st Causality in Vision Workshop at ECCV 2022 		2022
	 1st Causality in Vision Workshop at CVPR 2021 Talks and Blogs 		2021
	 Invited talk to TechBeat, Hosted by TechBeat AI Community, Online 		Oct 2022
	 Invited talk to Kuaishou, Recommendation System Group, Beijing Invited talk to The Lab for Media Search (LMS), NUS, Singapore Invited talk to VALSE Webinar (volume 20-29), Hosted by Prof.Meng Yang, Online Invited talk to Causal AI Reading Group, Jointly Hosted by Swarma Club and BAAI Hu 		Jul 2021
			Jun 2021 Dec 2020
			Dec 2020 Dec 2020
	■ Invited talk to Jishi Community, Hosted by Jishi Team, BiliBili		Dec 2020
	 Invited talk to Alibaba Group, Hosted by Tianchi Team from Alibaba Cloud, Hangzhou Invited talk to Jiantao Jiao's Lab, Hosted by Ph.D. Banghua Zhou, UC Berkeley Plage & Sharing Research Experiences at Zhibu, https://www.phibu.com/page/le/shibuston 		Nov 2020
			Oct 2020
	■ Blogs: Sharing Research Experiences at Zhihu, https://www.zhihu.com/people/kaihuatang		
	Paper Review		
	 CVPR, ECCV, ICCV, WACV, NeurIPS, ICLR, ICML(Outstanding Reviewer 2022), AAAI, TPAMI 		
AWARDS &	 Outstanding Reviewer (Top 10%) for ICML 2022 		2022
SCHOLARSHIPS	 2021 Alibaba Outstanding Interns in Academic Cooperation, Alibaba Group 		2021
	 2021 & 2019 PREMIA Best Student Paper Award, 2nd Place, PREMIA 		2021, 2019
	 CVPR 2019 Best Paper Finalists, CVPR Committee 		2019
	 Honorable Judge Award, The 5th Cloud Programming World Cup, FORUM8 Tok 	cyo	2017
	 Waseda Partial Tuition-Waiver Scholarship for Privately Financed International Students GPA rank Top 10 out of 300. 		2015
	 IPS special scholarship for international students, Waseda University Monbukagakusho Honors Scholarship for Privately Financed International Students		2014
			2014
	■ Emerging Talent Award, Cloud Programming World Cup (FORUM8), Tokyo		2013
INTERNSHIP	Alibaba, DAMO Academy, Research Intern, Hangzhou, China		
1111 1111 101111	 Project: Robust Machine Learning 	Jul 2019	- Nov 2021
	Tencent, AI Lab, Research Intern , ShenZhen, China	0 tar = 0 10	1107 2021
	■ Project: Scene Graph Generation Mar 2		8- Jun 2018
	Mihoyo, Mobile Game Development Intern, Shanghai, China		
	 Project: Mobile Game Development Using Unity 3D. 	Apr 2017- Dec 2017 apan	
	TOSHIBA Research & Development Intern, TOSHIBA, Tokyo, Japan		
	■ Project: Image Inpainting	Aug 2015	5- Sep 2015
SKILLS	Recently Used: Python, Pytorch; Have Experience Before: MATLAB, C#, Java, C++,		
LANGUAGES	■ Chinese: Native language, English: Fluent (TOEFL 103, GRE 328), Japanese: Basic (N2).		
VOLUNTEER	■ 28th ACM-Multimedia Program, ACM-MM Committees	Oct 2020	– Oct 2020
ACTIVITIES	 YAPM Summer Volunteer Program, TECC Organization 	Jul 2014 -	– Aug 2014
INTERESTS	Outdoor Activities (Hiking, Camping, Mountain Climbing, Roller Skating, etc), Anime, Comic and Games (ACG), Game Development		

[CV compiled on 2022-10-10]