YONGQIN XIAN

Google Scholar \diamond Personal Website ETF D113.2, Sternwartstrasse 7 \display 8092 Zürich \display Switzerland (+41) 0767471357 \diamond yongqin.xian@vision.ee.ethz.ch

ETH Zurich	August 2021 - Now
Post-doctoral researcher with Prof. Luc Van Gool	Zürich, Switzerland
\cdot Few-shot object detection, 3D vision and image super resolution	
Max Planck Institute for Informatics Post-doctoral researcher with Prof. Bernt Schiele and Prof. Zeynep Akata	August 2020 - July 2021 Saarbrücken, Germany
· Learning from limited supervision for computer vision tasks	
Facebook AI Research Research Intern with Prof. Lorenzo Torresani	January 2019 - April 2019 $Cambridge,\ USA$
· Few-shot video understanding	
Max Planck Institute for Informatics PhD condidate with Prof. Bernt Schiele and Prof. Zeynep Akata	January 2016 - July 2020 Saarbrücken, Germany
· Zero-shot and few-shot learning	
Machine Learning Group of Saarland University Research Assistant with Prof. Matthias Hein	April 2014 - October 2014 Saarbrücken, Germany
· Motion segmentation with hypergraph cut	
EDUCATION	
Max Planck Institute Informatics, Germany PhD (summa cum laude) in Computer Science	2016-2020
Saarland University, Germany MSc (Honors degree) in Computer Science	2013-2016
Beijing Institute of Technology, China BSc in Computer Science	2009-2018

AWARDS

Doctoral Consortium CVPR, 2020 Chinese Government Award for Outstanding Self-Financed Students Abroad CSC, 2018 Qualcomm Innovation Fellowship Finalist Qualcomm, Amsterdam, 2018 Master Degree with Honors Saarland University, Germany, 2016 **Graduate Fellowship** Saarland University, Germany, 2013-15 **Excellent Student Scholarship** Beijing Institute of Technology, China, 2009-13

PUBLICATIONS

Learning Graph Embeddings for Open World Compositional Zero-Shot Learning

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) Massimiliano Mancini*, Muhammad Ferjad Naeem*, Yongqin Xian, Zeynep Akata

Attribute Prototype Network for Any-Shot Learning International Journal of Computer Vision (IJCV) Wenjia Xu, Yongqin Xian, Niujiu Wang, Bernt Schiele Zeynep Akata	2022
VGSE: Visually-Grounded Semantic Embeddings for Zero-Shot Learning IEEE Computer Vision and Pattern Recognition (CVPR) Conference Wenjia Xu, Yongqin Xian, Niujiu Wang, Bernt Schiele Zeynep Akata	2022
Generalized Few-Shot Video Classification with Video Retrieval and Feature Generalized Transactions on Pattern Analysis and Machine Intelligence (TPAMI) Yongqin Xian, Bruno Korbar, Matthijs Douze, Lorenzo Torresani, Bernt Schiele, Zeynep Akata	neration 2021
Distilling Audio-Visual Knowledge by Compositional Contrastive Learning IEEE Computer Vision and Pattern Recognition (CVPR) Conference Yanbei Chen, Yongqin Xian, Almut Sophia Koepke, Zeynep Akata	2021
Learning Graph Embeddings for Compositional Zero-shot Learning IEEE Computer Vision and Pattern Recognition (CVPR) Conference Muhammad Ferjad Naeem, Yongqin Xian, Federico Tombari, Zeynep Akata	2021
Open World Compositional Zero-Shot Learning IEEE Computer Vision and Pattern Recognition (CVPR) Conference Massimiliano Mancini*, Muhammad Ferjad Naeem*, Yongqin Xian, Zeynep Akata	2021
Prototype-based Incremental Few-Shot Semantic Segmentation British Machine Vision Conference (BMVC) Fabio Cermelli, Massimiliano Mancini, Yongqin Xian, Zeynep Akata, Barbara Caputo	2021
(SP) ² Net for Generalized Zero-Label Semantic Segmentation DAGM German Conference on Pattern Recognition (GCPR) Anurag Das, Yongqin Xian, Yang He, Bernt Schiele, Zeynep Akata	2021
A Closer Look at Self-training for Zero-Label Semantic Segmentation CVPR 2021 Workshop on Learning with Limited and Imperfect Data Giuseppe Pastore, Fabio Cermelli, Yongqin Xian, Massimiliano Mancini, Zeynep Akata, Barbara Ca	2021
Attribute Prototype Network for Zero-Shot Learning Conference on Neural Information Processing Systems (NeurIPS) Wenjia Xu, Yongqin Xian, Jiuniu Wang, Bernt Schiele, Zeynep Akata	2020
Analyzing the Dependency of ConvNets on Spatial Information The German Conference on Pattern Recognition (GCPR) Yue Fan, Yongqin Xian, Max Maria Losch, Bernt Schiele	2020
Generalized Many-Way Few-Shot Video Classification ECCV Workshop on Imbalanced Problem in Computer Vision Yongqin Xian, Bruno Korbar, Matthijs Douze, Bernt Schiele, Zeynep Akata, Lorenzo Torresani	2020
f-VAEGAN-D2: A Feature Generating Framework for Any-Shot Learning IEEE Computer Vision and Pattern Recognition (CVPR) Conference Long B Yongqin Xian, Saurabh Sharma, Bernt Schiele, Zeynep Akata	2019 Teach, CA
Semantic Projection Network for Zero- and Few-Label Semantic Segmentation IEEE Computer Vision and Pattern Recognition (CVPR) Conference Long B Yongqin Xian*, Subhabrata Choudhury*, Yang He, Bernt Schiele, Zeynep Akata	2019 Teach, CA
Zero-Shot Learning – A Comprehensive Evaluation of the Good, the Bad and the IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) Yongqin Xian, Christoph H. Lampert, Bernt Schiele, Zeynep Akata	e Ugly 2018

Feature Generating Networks for Zero-Shot Learning IEEE Computer Vision and Pattern Recognition (CVPR) Conference Yongqin Xian, Tobias Lorenz, Bernt Schiele, Zeynep Akata	2018 Salt Lake City, UT
Zero-Shot Learning - The Good, the Bad and the Ugly IEEE Computer Vision and Pattern Recognition (CVPR) Conference Yongqin Xian, Bernt Schiele, Zeynep Akata	2017 HL, Hawaii
Latent Embeddings for Zero-shot Classification IEEE Computer Vision and Pattern Recognition (CVPR) Conference Yongqin Xian, Zeynep Akata, Gaurav Sharma, Quynh Nguyen, Matthias Hein, Bernt Se	$\begin{array}{c} 2016 \\ Las\ Vegas,\ NV \\ \text{chiele} \end{array}$
TEACHING AND TRAINING EXPERIENCE	
TA for Machine Learning Course (Prof. Matthias Hein), Saarland University Invited Student at Google's 2nd Computer Vision Summit, Zurich, Switzerland Computer Vision Summer School, Sicily, Italy Machine Learning Summer School, MPI Intelligent Systems, Germany Software Engineer Intern at Oracle Inc., Beijing, China SUPERVISION EXPERIENCE	Oct 2015 - Mar 2016 Sep. 2018 July 2018 July 2015 June-Dec. 2012
Master Thesis of Anurag Das (now PhD student at MPII)	2021
Master Thesis of Muhammad Ferjad Naeem (now PhD student at ETH)	
Research Immersion Lab of Miaoran Zhang (now PhD student at Saarland Ur	2020 niversity) 2019
Master Thesis of Yue Fan (now PhD student at MPII)	2019
Master Thesis of Subhabrata Choudhury (now PhD student at Oxford University)	
Bachelor Thesis of Tobias Lorenz (now PhD student at CISPA)	2017
ACADEMIC ACTIVITIES	
Reviewer in International Conference on Learning Representations (ICLR)	2019-21
Reviewer in International Conference on Machine Learning (ICML)	
Reviewer in Conference on Neural Information Processing Systems (NIPS)	
Reviewer in IEEE Computer Vision and Pattern Recognition Conference (CVPF	R) 2018-22
Reviewer in Transactions on Pattern Analysis and Machine Intelligence (TPAMI	I) 2017-22
SPOKEN LANGUAGES	
Chinese Maternal English Proficiency German Beginner	