

YONGQIN XIAN

Google Scholar \diamond Personal Website
ETF D113.2, Sternwartstrasse 7 \diamond 8092 Zürich \diamond Switzerland
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RESEARCH EXPERIENCE

- | | |
|--|---|
| ETH Zurich
<i>Post-doctoral researcher with Prof. Luc Van Gool</i> | August 2021 - Now
Zürich, Switzerland |
| · Few-shot object detection | |
| Max Planck Institute for Informatics
<i>Post-doctoral researcher with Prof. Bernt Schiele and Prof. Zeynep Akata</i> | August 2020 - July 2021
Saarbrücken, Germany |
| · Learning from limited supervision for computer vision tasks | |
| Facebook AI Research
<i>Research Intern with Prof. Lorenzo Torresani</i> | January 2019 - April 2019
Cambridge, USA |
| · Few-shot video understanding | |
| Max Planck Institute for Informatics
<i>PhD candidate with Prof. Bernt Schiele and Prof. Zeynep Akata</i> | January 2016 - July 2020
Saarbrücken, Germany |
| · Zero-shot and few-shot learning | |
| Machine Learning Group of Saarland University
<i>Research Assistant with Prof. Matthias Hein</i> | April 2014 - October 2014
Saarbrücken, Germany |
| · Motion segmentation with hypergraph cut | |

EDUCATION

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|---|-----------|
| 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 | 2009-2013 |

AWARDS

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|---|---|
| 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 |

REPRESENTATIVE TEN PUBLICATIONS

- Generalized Few-Shot Video Classification with Video Retrieval and Feature Generation**
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) 2021
Yongqin Xian, Bruno Korbar, Matthijs Douze, Lorenzo Torresani, Bernt Schiele, Zeynep Akata

Distilling Audio-Visual Knowledge by Compositional Contrastive Learning 2021
IEEE Computer Vision and Pattern Recognition (CVPR) Conference
 Yanbei Chen, **Yongqin Xian**, Almut Sophia Koepke, Zeynep Akata

Learning Graph Embeddings for Compositional Zero-shot Learning 2021
IEEE Computer Vision and Pattern Recognition (CVPR) Conference
 Muhammad Ferjad Naeem, **Yongqin Xian**, Federico Tombari, Zeynep Akata

Attribute Prototype Network for Zero-Shot Learning 2020
Conference on Neural Information Processing Systems (NeurIPS)
 Wenjia Xu, **Yongqin Xian**, Jiuniu Wang, Bernt Schiele, Zeynep Akata

f-VAEGAN-D2: A Feature Generating Framework for Any-Shot Learning 2019
IEEE Computer Vision and Pattern Recognition (CVPR) Conference Long Beach, CA
Yongqin Xian, Saurabh Sharma, Bernt Schiele, Zeynep Akata

Semantic Projection Network for Zero- and Few-Label Semantic Segmentation 2019
IEEE Computer Vision and Pattern Recognition (CVPR) Conference Long Beach, CA
Yongqin Xian*, Subhabrata Choudhury*, Yang He, Bernt Schiele, Zeynep Akata

Zero-Shot Learning – A Comprehensive Evaluation of the Good, the Bad and the Ugly 2018
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
Yongqin Xian, Christoph H. Lampert, Bernt Schiele, Zeynep Akata

Feature Generating Networks for Zero-Shot Learning 2018
IEEE Computer Vision and Pattern Recognition (CVPR) Conference Salt Lake City, UT
Yongqin Xian, Tobias Lorenz, Bernt Schiele, Zeynep Akata

Zero-Shot Learning - The Good, the Bad and the Ugly 2017
IEEE Computer Vision and Pattern Recognition (CVPR) Conference HL, Hawaii
Yongqin Xian, Bernt Schiele, Zeynep Akata

Latent Embeddings for Zero-shot Classification 2016
IEEE Computer Vision and Pattern Recognition (CVPR) Conference Las Vegas, NV
Yongqin Xian, Zeynep Akata, Gaurav Sharma, Quynh Nguyen, Matthias Hein, Bernt Schiele

OTHER PUBLICATIONS

Prototype-based Incremental Few-Shot Semantic Segmentation 2021
British Machine Vision Conference (BMVC)
 Fabio Cermelli, Massimiliano Mancini, **Yongqin Xian**, Zeynep Akata, Barbara Caputo

Open World Compositional Zero-Shot Learning 2021
IEEE Computer Vision and Pattern Recognition (CVPR) Conference
 Massimiliano Mancini*, Muhammad Ferjad Naeem*, **Yongqin Xian**, Zeynep Akata

(SP)²Net for Generalized Zero-Label Semantic Segmentation 2021
DAGM German Conference on Pattern Recognition (GCPR)
 Anurag Das, **Yongqin Xian**, Yang He, Bernt Schiele, Zeynep Akata

A Closer Look at Self-training for Zero-Label Semantic Segmentation 2021
CVPR 2021 Workshop on Learning with Limited and Imperfect Data
 Giuseppe Pastore, Fabio Cermelli, **Yongqin Xian**, Massimiliano Mancini, Zeynep Akata, Barbara Caputo

Analyzing the Dependency of ConvNets on Spatial Information 2020
The German Conference on Pattern Recognition (GCPR)
 Yue Fan, **Yongqin Xian**, Max Maria Losch, Bernt Schiele

Generalized Many-Way Few-Shot Video Classification

2020

ECCV Workshop on Imbalanced Problem in Computer Vision

Yongqin Xian, Bruno Korbar, Matthijs Douze, Bernt Schiele, Zeynep Akata, Lorenzo Torresani

TEACHING AND TRAINING EXPERIENCE

TA for Machine Learning Course (Prof. Matthias Hein), Saarland University	Oct 2015 - Mar 2016
Invited Student at Google's 2nd Computer Vision Summit, Zurich, Switzerland	Sep. 2018
Computer Vision Summer School , Sicily, Italy	July 2018
Machine Learning Summer School , MPI Intelligent Systems, Germany	July 2015
Software Engineer Intern at Oracle Inc., Beijing, China	June-Dec. 2012

SUPERVISION EXPERIENCE

Master Thesis of Anurag Das (now PhD student at MPII)	2021
Master Thesis of Muhammad Ferjad Naeem (now PhD student at ETH)	2020
Research Immersion Lab of Miaoran Zhang (now PhD student at Saarland University)	2019
Master Thesis of Yue Fan (now PhD student at MPII)	2019
Master Thesis of Subhabrata Choudhury (now PhD student at Oxford University)	2018
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)	2020
Reviewer in Conference on Neural Information Processing Systems (NIPS)	2018-21
Reviewer in IEEE Computer Vision and Pattern Recognition Conference (CVPR)	2018-21
Reviewer in Transactions on Pattern Analysis and Machine Intelligence (TPAMI)	2017-21

SPOKEN LANGUAGES

Chinese Maternal **English** Proficiency **German** Beginner