

# YONGQIN XIAN

Max Planck Institut for Informatics ◊ Saarland Informatics Campus ◊ Saarbrücken ◊ GERMANY  
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## RESEARCH EXPERIENCE

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### Max Planck Institute for Informatics

August 2020 - Now

*Post-doctoral researcher with Prof. Bernt Schiele and Prof. Zeynep Akata*

*Saarbrücken, Germany*

- Learning from limited supervision for computer vision tasks

### Facebook AI Research

January 2019 - April 2019

*Research Intern with Prof. Lorenzo Torresani*

*Cambridge, USA*

- Few-shot video understanding

### Max Planck Institute for Informatics

January 2016 - July 2020

*PhD condidate with Prof. Bernt Schiele and Prof. Zeynep Akata*

*Saarbrücken, Germany*

- Zero-shot and few-shot learning.

### Machine Learning Group of Saarland University

April 2014 - October 2014

*Research Assistant with Prof. Matthias Hein*

*Saarbrücken, Germany*

- Motion segmentation with hypergraph cut

## EDUCATION

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### Max Planck Institute Informatics, Germany

2016-2020

PhD (summa cum laude) in Computer Science

### Saarland University, Germany

2013-2016

MSc (Honors degree) in Computer Science

### Beijing Institute of Technology, China

2009-2013

BSc in Computer Science

## PUBLICATIONS

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### Distilling Audio-Visual Knowledge by Compositional Contrastive Learning

2021

*IEEE Computer Vision and Pattern Recognition (CVPR) Conference*

*Virtual*

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*

*Virtual*

Muhammad Ferjad Naeem, **Yongqin Xian**, Federico Tombari, Zeynep Akata

### Open World Compositional Zero-Shot Learning

2021

*IEEE Computer Vision and Pattern Recognition (CVPR) Conference*

*Virtual*

Massimiliano Mancini\*, Muhammad Ferjad Naeem\*, **Yongqin Xian**, 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

### 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

<b>Generalized Many-Way Few-Shot Video Classification</b>	2020
<i>ECCV Workshop on Imbalanced Problem in Computer Vision</i>	
Yongqin Xian, Bruno Korbar, Matthijs Douze, Bernt Schiele, Zeynep Akata, Lorenzo Torresani	
<b>f-VAEGAN-D2: A Feature Generating Framework for Any-Shot Learning</b>	2019
<i>IEEE Computer Vision and Pattern Recognition (CVPR) Conference</i>	<i>Long Beach, CA</i>
Yongqin Xian, Saurabh Sharma, Bernt Schiele, Zeynep Akata	
<b>Semantic Projection Network for Zero- and Few-Label Semantic Segmentation</b>	2019
<i>IEEE Computer Vision and Pattern Recognition (CVPR) Conference</i>	<i>Long Beach, CA</i>
Yongqin Xian*, Subhabrata Choudhury*, Yang He, Bernt Schiele, Zeynep Akata	
<b>Zero-Shot Learning – A Comprehensive Evaluation of the Good, the Bad and the Ugly</b>	
<i>IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)</i>	2018
Yongqin Xian, Christoph H. Lampert, Bernt Schiele, Zeynep Akata	
<b>Feature Generating Networks for Zero-Shot Learning</b>	2018
<i>IEEE Computer Vision and Pattern Recognition (CVPR) Conference</i>	<i>Salt Lake City, UT</i>
Yongqin Xian, Tobias Lorenz, Bernt Schiele, Zeynep Akata	
<b>Zero-Shot Learning - The Good, the Bad and the Ugly</b>	2017
<i>IEEE Computer Vision and Pattern Recognition (CVPR) Conference</i>	<i>Hawaii, HI</i>
Yongqin Xian, Bernt Schiele, Zeynep Akata	
<b>Latent Embeddings for Zero-shot Classification</b>	2016
<i>IEEE Computer Vision and Pattern Recognition (CVPR) Conference</i>	<i>Las Vegas, NV</i>
Yongqin Xian, Zeynep Akata, Gaurav Sharma, Quynh Nguyen, Matthias Hein, Bernt Schiele	

## TEACHING, SUPERVISION AND TRAINING EXPERIENCE

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<b>TA</b> for Machine Learning Course (Prof. Matthias Hein), Saarland University	Oct 2015 - Mar 2016
<b>Invited Student</b> at Google's 2nd Computer Vision Summit, Zurich, Switzerland	Sep. 2018
<b>Computer Vision Summer School</b> , Sicily, Italy	July 2018
<b>Machine Learning Summer School</b> , MPI Intelligent Systems, Germany	July 2015
<b>Software Engineer Intern</b> at Oracle Inc., Beijing, China	June-Dec. 2012
<b>Research Immersion Lab</b> of Miaoran Zhang (now PhD student at Saarland University)	2019
<b>Master Thesis</b> of Yue Fan (now PhD student at MPII)	2019
<b>Master Thesis</b> of Subhabrata Choudhury (now PhD student at Oxford University)	2018
<b>Bachelor Thesis</b> of Tobias Lorenz (now MSc student at ETH Zürich)	2017

## ACADEMIC ACTIVITIES AND INVITED TALKS

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<b>Reviewer</b> in International Conference on Learning Representations (ICLR)	2019-21
<b>Reviewer</b> in International Conference on Machine Learning (ICML)	2020
<b>Reviewer</b> in Conference on Neural Information Processing Systems (NIPS)	2018-20
<b>Reviewer</b> in IEEE Computer Vision and Pattern Recognition Conference (CVPR)	2018-20
<b>Reviewer</b> in Transactions on Pattern Analysis and Machine Intelligence (TPAMI)	2017-20
<b>Invited Talk</b> at Computer Science Department, Wuhan University	May 2019
<b>Invited Talk</b> at UvA-Bosch Delta Lab, University of Amsterdam	May 2018
<b>Invited Talk</b> at Continuous and Open-Set Learning Workshop, CVPR 2017	July 2017
<b>Invited Talk</b> at Vision Meets Cognition Workshop, CVPR 2017	July 2017
<b>Invited Talk</b> at Embeddings and Metric Learning Tutorial, GCPR 2016	Sep. 2016
<b>Spotlight Talk</b> at main conference of CVPR 2016	June 2016

## AWARDS

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

## SPOKEN LANGUAGES

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<b>Chinese</b>	Maternal	<b>English</b>	Proficiency	<b>German</b>	Beginner
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