YUHUA CHEN

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EDUCATION

ETH Zurich, Switzerland *September 2015 - March 2020 (expected)*
PhD Candidate

Supervisor Prof. Luc Van Gool
Research fields transfer learning, scene understanding, video analysis
Research summary My research has been focused on addressing the difficulty of acquiring ground-truth supervision for deep models, by transferring the knowledge from another domain or/and from another task.

ETH Zurich, Switzerland *September 2013 - June 2015*
M.Sc in Electrical Engineering and Information Technology
GPA 5.8/6.0 **Major fields** computer vision, machine learning

University of Science and Technology of China, China *September 2009 - June 2013*
B.Sc in Physics
GPA 90/100 **Major fields** computational physics

EXPERIENCE

Google Zurich *July 2019 - Present*
Student Researcher, with Prof. Cristian Sminchisescu and Dr. Cordelia Schmid
Topic Dynamic 3D scene understanding from videos

Computer Vision Lab, ETH Zurich *September 2015 - Present*
Research Assistant, with Prof. Luc Van Gool
Topic Learning visual perception across domains and tasks

Google Zurich *November 2018 - March 2019*
Research Intern, with Prof. Cristian Sminchisescu and Dr. Cordelia Schmid
Topic Self-supervised learning of deep models with geometric constraints

Disney Research Zurich *September 2014 - December 2014*
Research Intern, with Dr. Thabo Beeler and Dr. Derek Bradley
Topic Real-time face tracker benchmark

SELECTED PUBLICATIONS

Yuhua Chen, Cordelia Schmid, Cristian Sminchisescu.
"Self-supervised Learning with Geometric Constraints in Monocular Video: Connecting Flow, Depth, and Camera" *International Conference in Computer Vision (**ICCV**), 2019*

Yuhua Chen, Wen Li, Xiaoran Chen, Luc Van Gool.
"Learning Semantic Segmentation from Synthetic Data: A Geometrically Guided Input-Output Adaptation Approach." *Computer Vision and Pattern Recognition (**CVPR**), 2019.*

Rui Gong, Wen Li, **Yuhua Chen**, Luc Van Gool.
"DLOW: Domain Flow for Adaptation and Generalization."
*Computer Vision and Pattern Recognition (**CVPR**), 2019, **oral presentation**.*

Yuhua Chen, Wen Li, Christos Sakaridis, Dengxin Dai, Luc Van Gool.
"Domain Adaptive Faster R-CNN for Object Detection in the Wild."
*Computer Vision and Pattern Recognition (**CVPR**), 2018.*

Yuhua Chen, Wen Li, Luc Van Gool.
"ROAD: Reality Oriented Adaptation for Semantic Segmentation of Urban Scenes."
*Computer Vision and Pattern Recognition (**CVPR**), 2018.*

Yuhua Chen, Jordi Pont-Tuset, Alberto Montes, Luc Van Gool.
"Blazingly Fast Video Object Segmentation with Pixel-Wise Metric Learning."
*Computer Vision and Pattern Recognition (**CVPR**), 2018.*

Yuhua Chen, Dengxin Dai, Jordi Pont-Tuset, Luc Van Gool,
"Scale-Aware Alignment of Hierarchical Image Segmentation."
*Computer Vision and Pattern Recognition (**CVPR**), 2016.*

Kevis-Kokitsi Maninis, Sergi Caelles, **Yuhua Chen**, Jordi Pont-Tuset, Laura Leal-Taixe, Daniel Cremers, Luc Van Gool.
"Video Object Segmentation Without Temporal Information."
*IEEE Transactions on Pattern Analysis and Machine Intelligence (**T-PAMI**), 2018.*

The complete list can be found in my google scholar profile.

PROFESSIONAL SERVICE

Conference Reviewer	*CVPR, ICCV, NIPS, ICML, AAAI*
Journal Reviewer	*IJCV, T-PAMI, IEEE TIP, IEEE Transactions on Cybernetics, IEEE Transactions on Multimedia, IEEE Access*
Workshop Organizer	DAVIS Challenge on Video Object Segmentation (in conjunction with *CVPR 2018*)

TEACHING

Teaching Assistant	Image Analysis and Computer Vision, ETH Zurich.	*Fall 16, 17*
	Computer Vision, ETH Zurich.	*Fall 15*
Thesis Supervisor	Supervised more than 10 master students.	

TECHNICAL SKILLS

Programming Language	Python, C/C++, Matlab
Deep Learning Framework	Caffe, PyTorch, Tensorflow