

Yantao SHEN

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Personal Profile

Yantao SHEN obtained his Ph.D. degree in Electronic Engineering from the Department of Electronic Engineering at The Chinese University of Hong Kong, supervised by Prof. Xiaogang Wang and Prof. Hongsheng Li. He also works closely with Dr. Tong Xiao, Dr. Yuanjun Xiong, and Dr. Wei Xia. His research interests are computer vision and deep learning.

Education

2015-2020 The Chinese University of Hong Kong, HKSAR, China
Ph.D. candidate in Electronic Engineering,
supervisor: Prof. Xiaogang Wang and Prof. Hongsheng Li

2011-2015 Northeastern University, Shen Yang, China
B.Eng. in Automation

Experience

Jun 2019- Applied Scientist Intern, supervised by Yuanjun Xiong, Wei Xia, and Stefano Soatto
Dec 2019 Amazon Web Services (AWS), Rekognition, Seattle, WA, United States

Publication

Towards Backward-Compatible Representation Learning

Y. Shen, Y. Xiong, W. Xia, S. Soatto, *Computer Vision and Pattern Recognition, (CVPR)*, 2020, **(Oral)**.

Person Re-identification with Deep Kronecker-Product Matching and Group-shuffling Random Walk

Y. Shen, H. Li, T. Xiao, S. Yi, D. Chen, X. Wang, *IEEE Transactions on Pattern Analysis and Machine Intelligence, (TPAMI)*, 2019.

Person Re-identification with Deep Similarity-Guided Graph Neural Network

Y. Shen, H. Li, S. Yi, D. Chen, X. Wang, *15th European Conference on Computer Vision, (ECCV)*, 2018.

Deep Group-shuffling Random Walk for Person Re-identification

Y. Shen, H. Li, S. Yi, D. Chen, X. Wang, *Computer Vision and Pattern Recognition, (CVPR)*, 2018.

End-to-End Deep Kronecker-Product Matching for Person Re-identification

Y. Shen*, **T. Xiao***, H. Li, S. Yi, X. Wang, *Computer Vision and Pattern Recognition, (CVPR)*, 2018.
(* denotes co-first authors)

Learning Deep Neural Networks for Vehicle Re-ID with Visual-spatio-temporal Path Proposals

Y. Shen, T. Xiao, H. Li, S. Yi, X. Wang. *International Conference on Computer Vision, (ICCV)*, 2017.

Awards

2015-2019 Hong Kong PhD Fellowship (HKPFS)

An annual stipend of HK\$240,000 (approximately US\$30,000) and a conference and research-related travel allowance of HK\$10,000 (approximately US\$1,300) provided by Hong Kong SAR Government.

2012-2014 National Scholarship

Three Times Education Ministry of PRC's National Scholarship.

2014 Outstanding Winner of Mathematical Contest In Modeling(MCM)

Outstanding Award of The Mathematical Contest in Modeling 2014, collaborated With Bingzhu Xie and Yingyi Ma, supervised by Prof. Dali Chen.