

# Guangyi Chen

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[chengy12.github.io](https://github.com/chengy12)

## Education

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### Department of Automation, Tsinghua University

PhD student in Computer Vision

Advisor: Prof. Jie Zhou

Assistant Advisor: Prof. Jiwen Lu

Beijing, China

2016-2021

### Department of Automation, Tsinghua University

B.E. in Automation

Beijing, China

2012-2016

## Publications

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\* indicates equal contribution

### Peer-Reviewed Conference Publications

- [1] **Guangyi Chen**, Junlong Li, Nuoxing Zhou, Liangliang Ren, and Jiwen Lu  
Personalized Trajectory Prediction via Distribution Discrimination  
IEEE International Conference on Computer Vision (ICCV), 2021
- [2] **Guangyi Chen**, Junlong li, Jiwen Lu, and Jie Zhou  
Human Trajectory Prediction via Counterfactual Analysis  
IEEE International Conference on Computer Vision (ICCV), 2021
- [3] Yongming Rao\*, **Guangyi Chen\***, Jiwen Lu, and Jie Zhou  
Counterfactual Attention Learning for Visual Recognition  
IEEE International Conference on Computer Vision (ICCV), 2021
- [4] Nuoxing Zhou, **Guangyi Chen**, Jinglin Xu, Weishi Zheng, and Jiwen Lu  
Temporal Label Aggregation for Unintentional Action Localization  
2021 IEEE International Conference on Multimedia and Expo (ICME), 2021
- [5] **Guangyi Chen**, Yuhao Lu, Jiwen Lu, and Jie Zhou  
Deep Credible Metric Learning for Unsupervised Domain Adaptation Person Re-identification  
16th European Conference on Computer Vision (ECCV), 2020
- [6] **Guangyi Chen\***, Yongming Rao\*, Jiwen Lu, and Jie Zhou  
Temporal Coherence or Temporal Motion: Which is More Critical for Video-based Person Re-identification?  
16th European Conference on Computer Vision (ECCV), 2020
- [7] **Guangyi Chen**, Tianren Zhang, Jiwen Lu, and Jie Zhou  
Deep Meta Metric Learning  
IEEE International Conference on Computer Vision (ICCV), 2019
- [8] **Guangyi Chen**, Chunze Lin, Liangliang Ren, Jiwen Lu, and Jie Zhou  
Self-Critical Attention Learning for Person Re-identification  
IEEE International Conference on Computer Vision (ICCV), 2019
- [9] **Guangyi Chen**, Jiwen Lu, Jianjiang Feng and Jie Zhou  
Localized Multi-kernel Discriminative Canonical Correlation Analysis for Video-based Person Re-identification  
2017 IEEE International Conference on Image Processing (ICIP), 2017

### Peer-Reviewed Journal Publications

- [10] **Guangyi Chen**, Tianpei Gu, Jiwen Lu, Jinan Bao, and Jie Zhou  
Person Re-identification via Attention Pyramid  
IEEE Transactions on Image Processing (TIP, IF: 10.86), 2020
- [11] **Guangyi Chen**, Jiwen Lu, Ming Yang, and Jie Zhou  
Learning Recurrent 3D Attention for Video-based Person Re-identification  
IEEE Transactions on Image Processing (TIP, IF: 10.86), 2020

- [12] **Guangyi Chen**, Jiwen Lu, Ming Yang, and Jie Zhou  
Spatial-Temporal Attention-aware Learning for Video-based Person Re-identification  
IEEE Transactions on Image Processing (**TIP**, *IF: 10.86*), 2019

## Projects

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- Principal Investigator, “Pattern recognition and intelligent system”, 2016-2018  
Develop algorithms to recognize individuals in surveillance videos
- Principal Investigator, “Deep metric learning for visual object recognition”, 2017-2020  
Develop algorithms to enhance the robustness and generalizability of deep metric learning models
- Principal Investigator, “Human action recognition and analysis for service robots”, 2019-2022  
Evaluate and further develop algorithms to analyze out-of-distribution human action videos  
Develop algorithms to analyze the human intention underlying the action videos

## Awards

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- Jiang Zhen scholarship at Tsinghua University 2020
- 2nd place in Semi-Supervised Recognition Challenge at FGVC7 2020
- Friends of Tsinghua scholarship 2019

## Academic Services

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### Co-Organizer

- Co-Organizer on The Third Workshop on Human Identification in Multimedia (HIM’19) at ICME 2019.

### Journal Reviewer

- IEEE Transactions on Image Processing
- IEEE Transactions on Multimedia
- IEEE Transactions on Circuits and Systems for Video Technology
- IEEE Access
- Pattern Recognition
- Pattern Recognition Letters
- Neuralcomputing
- Journal of Visual Communication and Image Representation

### Conference Reviewer

- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2020, 2021)
- International Conference on Machine Learning (ICML 2021)
- International Joint Conference on Artificial Intelligence (IJCAI 2021)
- Neural Information Processing Systems (NeurIPS 2020, 2021)
- European Conference on Computer Vision (ECCV 2020)
- IEEE International Conference on Multimedia and Expo (ICME 2018, 2019, 2020)
- IEEE Winter Conference on Applications of Computer Vision (WACV 2020, 2021)
- International Conference on Pattern Recognition (ICPR 2018, 2019, 2020)
- IEEE International Conference on Image Processing (ICIP 2018, 2019, 2020)