

# LI TAO

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## EDUCATION

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### Ph.D in Information Science and Technology

The University of Tokyo

Sept. 2018 – Sept. 2021

Tokyo, Japan

- Thesis: Video Representation Learning for Action Recognition and Retrieval
- Adviser: Professor Toshihiko Yamasaki
- Research areas: video understanding, action recognition, self-supervised learning

### M.S in Computer Applied Technology

Peking University

Aug. 2015 – July 2018

Beijing, China

- Thesis: Study on Low-light Image Enhancement
- Adviser: Professor Xiaodong Xie
- Research areas: image enhancement, image processing

### B.A in Electronic Science and Technology

Beijing Institute of Technology

Aug. 2011 – July 2015

Beijing, China

- Graduated with postgraduate recommendation

## RESEARCH AND PUBLICATIONS

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### Journals

- [Li Tao](#), Xueting Wang, and Toshihiko Yamasaki, "Rethinking Motion Representation: Residual Frames with 3D ConvNets," under review of IEEE Transactions on Image Processing (TIP).
- [Li Tao](#), Xueting Wang, and Toshihiko Yamasaki, "An Improved Inter-intra Contrastive Framework for Self-supervised Video Representation Learning," under review of IEEE Transactions on Multimedia (TMM).
- [Li Tao](#), Xueting Wang, and Toshihiko Yamasaki, "Pretext-Contrastive Learning: Toward Good Practices in Self-supervised Video Representation Learning", under review of IEEE Transactions on Image Processing (TIP)
- [Li Tao](#), Xueting Wang, Tatsuya Kawahara, and Toshihiko Yamasaki, "A Large- Scale Television Advertising Dataset for Detailed Impression Analysis," in submission of IEEE Transactions on Multimedia (TMM).

### International Conferences

- Xianliang Zhang, [Li Tao](#), Xueting Wang, and Toshihiko Yamasaki, "Better Temporal Representation for Unsupervised Video Summarization Based on Contrastive Self-Supervised Learning," under review of International Conference on Computer Vision (ICCV).
- Shengzhou Yi, [Li Tao](#), Xueting Wang, and Toshihiko Yamasaki, "Class-Balanced Contrastive Pretraining for Improving Long-Tailed Recognition," in submission of the British Machine Vision Conference (BMVC).
- [Li Tao](#), Xueting Wang, and Toshihiko Yamasaki, "Self-supervised video representation learning using inter-intra contrastive framework," In Proceedings of the 28th ACM International Conference on Multimedia (ACMMM), pp. 2193-2201.
- [Li Tao](#), Xueting Wang, and Toshihiko Yamasaki, "Motion Representation Using Residual Frames with 3D CNN," In 2020 IEEE International Conference on Image Processing (ICIP), pp. 1786-1790.
- Yiyang Chen, [Li Tao](#), Xueting Wang, and Toshihiko Yamasaki, "Weakly supervised video summarization by hierarchical reinforcement learning," in Proceedings of the 1st ACM Multimedia Asia (ACMMM Asia), pp. 1-6.
- Yueqing Zhuang, [Li Tao](#), Fan Yang, Cong Ma, Ziwei Zhang, Huizhu Jia, and Xiaodong Xie. "RelationNet: Learning Deep-Aligned Representation for Semantic Image Segmentation", in 2018 IEEE 20th International Conference on Pattern Recognition (ICPR), pp. 1506-1511.
- Yueqing Zhuang, Fan Yang, [Li Tao](#), Cong Ma, Ziwei Zhang, Yuan Li, Huizhu Jia, Xiaodong Xie, and Wen Gao, "Dense Relation Network: Learning Consistent and Context-Aware Representation". in 2018 IEEE International Conference on Image Processing (ICIP), pp. 3698-3702.

- Li Tao, Chuang Zhu, Jiawen Song, Tao Lu, Huizhu Jia, and Xiaodong Xie, "Low-light Image Enhancement Using CNN and Bright Channel Prior", in 2017 IEEE International Conference on Image Processing (ICIP), pp. 3215-3219.
- Li Tao, Chuang Zhu, Guoqing Xiang, Yuan Li, Huizhu Jia, and Xiaodong Xie, "LLCNN: A Convolutional Neural Network for Low-light Image Enhancement", in 2017 Visual Communications and Image Processing (VCIP), pp. 1-4.
- Chuang Zhu, Li Tao, Fan Yang, Tao Lu, Huizhu Jia, and Xiaodong Xie, "Mobile Visual Search Based on Histogram Matching and Zone Weight Learning", in Journal of Physics: Conference Series.

#### Japanese Domestic Conferences

- Li Tao, Xueting Wang, and Toshihiko Yamasaki, "Inter-intra Contrastive Framework for Self-supervised Spatio-temporal Learning," in Pattern Recognition and Media Understanding (PRMU) 2020.
- Li Tao, Xueting Wang, Tatsuya Kawahara, and Toshihiko Yamasaki, "Television Advertisement Analysis Using Attention-based Multimodal Network," in Japanese Society for Artificial Intelligence (JSIAI) 2020.
- Li Tao, Xueting Wang, Tatsuya Kawahara, and Toshihiko Yamasaki, "Improvement on Television Advertisement Analysis by Using Additional Text Information," in Media Experience and Virtual Environment (MVE) 2019.
- Li Tao, Xueting Wang, and Toshihiko Yamasaki, "Bag of Tricks for Video Recognition Using 3D Convolutional Neural Networks," in Meeting on Image Recognition and Understanding (MIRU) 2019.

#### ACADEMIC SERVICES

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##### International conference reviewer

- ICME 2020, AAAI 2021, CVPR 2021

#### WORK EXPERIENCE

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##### Intern

Aug. 2015 – June 2017

Beijing BOYA-HUALU Technology Inc.

Beijing, China

- Algorithm optimization on CDVS (Compact Descriptor for Visual Search)
- Researching on object detection algorithms
- Fine-grained Vehicle classification

#### HONORS AND AWARDS

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##### Japanese Government (MEXT) Scholarship

Sept. 2018 – Sept. 2021

For studying at a Japanese university with a scholarship from the Japanese government.

##### China National Scholarship

Oct. 2017

Awarded by Chinese Government

##### Excellent Student Scholarship in Cooperative Medianet Innovation Center

Mar. 2017

For hard work among all joint laboratories of Cooperative Medianet Innovation Center

##### First prize on deburring license plate task in Research and Application in Computer Vision

Sept. 2016

For works in deburring license plate task in the contest of RACV

##### Outstanding Graduate of Beijing

Jun. 2015

Awarded by Beijing Government

##### First Prize of Beijing in China Undergraduate Contest on Mathematical Modeling

Nov. 2013

For works in 2013 national mathematical modeling contest

##### Excellent Student Awards Of Beijing

Jan. 2013

Awarded by Beijing Government

##### China National Scholarship

Oct. 2012

Awarded by Chinese Government

#### SKILLS

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**Languages:** Mandarin (Native), English (Fluent), Japanese (N2)

**Programming:** Python (Pytorch, TensorFlow), MATLAB, C