LIMIN WANG

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BACKGROUND

ETH Zurich, Zurich, Switzerland *December 2015 - now*
Post-doctoral research fellow, Supervisor: Prof. Luc Van Gool.
Research project: ERC Advanced Grant *VarCity*.

The Chinese University of Hong Kong, Hong Kong *August 2011 - December 2015*
Ph.D. in Information Engineering, Supervisor: Prof. Xiaoou Tang.
Thesis title: Representing and Modeling Human Actions in Videos.

Nanjing University, Nanjing, China *September 2007 - June 2011*
B.Sc. in Computer Science and Technology, Supervisor: Prof. Tong Lu.
GPA: 4.6/5, Rank: 4/160.
Thesis title: Multiclass Object Detection by Combining Local Appearances and Context.
Best Bachelor Thesis Team of Jiangsu Province (first author).

RESEARCH INTERESTS

Computer Vision: action recognition and detection, scene recognition
Machine Learning: representation learning, deep learning.

HONORS AND AWARDS

· CVPR Outstanding Reviewer	*2017*
· CVPR Doctoral Consortium Award (Mentor: Rahul Sukthankar)	*2015*
· Hong Kong PhD Fellowship (114 candidates in Hong Kong)	*2011*
· Best Bachelor Thesis Team of Jiangsu Province (1 recipient in Nanjing University)	*2011*
· Outstanding Graduate of Nanjing University	*2011*
· Excellent Undergraduate Innovation Project of Nanjing University	*2010*
· Google Scholarship (1 recipient in CS department)	*2010*
· National Scholarship (3 recipients in CS department)	*2009*
· Province First Prize, China Undergraduate Mathematical Contest in Modeling	*2009*
· Tung OOCL (Orient Overseas Container Line) Scholarship (3 recipients in CS department)	*2008*
· Outstanding Student of Nanjing University	*2008*

CONTESTS

· ImageNet Large Scale Visual Recognition Challenge: 4th place in scene classification.	*2016*
· ActivityNet Large Scale Activity Recognition Challenge: 1st place in video classification.	*2016*
· Large-scale Scene Understanding Challenge: 1st place in scene classification.	*2016*
· ImageNet Large Scale Visual Recognition Challenge: 1st runner up in scene classification.	*2015*
· ChaLearn Looking at People Challenge, ICCV: 3rd place in cultural event recognition.	*2015*
· Large-scale Scene Understanding Challenge: 1st runner up in scene classification.	*2015*
· THUMOS'15 Action Recognition Challenge: top performer.	*2015*
· ChaLearn Looking at People Challenge: **1st place in action spotting, event recognition.**	*2015*
· THUMOS'14 Action Recognition Challenge: 1st runner up in action detection.	*2014*

- ChaLearn Looking at People Challenge: **1st place in action spotting.** *2014*
- THUMOS'13 Action Recognition Challenge: 4th place. *2013*
- ChaLearn Multi-Modal Gesture Recognition Challenge: 4th place. *2013*

PUBLICATIONS (GOOGLE CITATION: 1326, H-INDEX: 18)

Submitted Papers

- **L. Wang**, Y. Xiong, Z. Wang, Y. Qiao, D. Lin, X. Tang, and L. Van Gool, Temporal Segment Networks for Action Recognition in Videos, submitted to IEEE Transactions on Pattern Analysis and Machine Intelligence (**T-PAMI**).

- B. Zhang, **L. Wang**, Z. Wang, Y. Qiao, and H. Wang, Real-time Action Recognition with Deeply Connected Motion Vector CNNs, submitted to IEEE Transactions on Image Processing (**TIP**).

Journal Papers

- **L. Wang**, Z. Wang, Y. Qiao, and L. Van Gool, Transferring Object-Scene CNNs for Event Recognition in Still Images, International Journal of Computer Vision (**IJCV**) (accepted with minor revision).

- **L. Wang**, S. Guo, W. Huang, Y. Xiong, and Y. Qiao, Knowledge Guided Disambiguation for Large-Scale Scene Recognition with Multi-resolution CNNs, in IEEE Transactions on Image Processing (**TIP**), Vol. 26, No. 4, 2017.

- Z. Wang, **L. Wang**, Y. Wang, B. Zhang, and Y. Qiao, Weakly Supervised PatchNets: Describing and Aggregating Local Patches for Scene Recognition, in IEEE Transactions on Image Processing (**TIP**), Vol. 26, No. 4, 2017.

- S. Guo, W. Huang, **L. Wang**, and Y. Qiao, Locally Supervised Deep Hybrid Model for Scene Recognition, in IEEE Transactions on Image Processing (**TIP**), Vol. 26, No. 2, 2017.

- Z. Yuan, H. Wang, **L. Wang**, T. Lu, P. Shivakumara, and C. L. Tan, Modeling Spatial Layout for Scene Image Understanding via a Novel Multiscale Sum-Product Network, in Expert Systems With Applications (**ESWA**), Vol. 63, 2016.

- X. Peng, **L. Wang**, X. Wang, and Y. Qiao, Bag of Visual Words and Fusion Methods for Action Recognition: Comprehensive Study and Good Practice, in Computer Vision and Image Understanding (**CVIU**), Vol. 150, 2016.

- **L. Wang**, Y. Qiao, and X. Tang, MoFAP: A Multi-Level Representation for Action Recognition, in International Journal of Computer Vision (**IJCV**), Vol. 119, No. 3, 2016.

- **L. Wang**, Y. Qiao, and X. Tang, Latent Hierarchical Model of Temporal Structure for Complex Activity Classification, in IEEE Transactions on Image Processing (**TIP**), Vol. 23, No. 2, 2014.

Top-Tier Vision Conference Papers

- **L. Wang**, Y. Xiong, D. Lin, and L. Van Gool, UntrimmedNets for Weakly Supervised Action Recognition and Detection, in IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), Honolulu, Hawaii, USA, 2017.

- J. Song, **L. Wang**, L. Van Gool, and O. Hilliges, Thin-Slicing Network: A Deep Structural Model for Human Pose Estimation in Videos, in IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), Honolulu, Hawaii, USA, 2017 (**oral presentation**).

- **L. Wang**, Y. Xiong, Z. Wang, Y. Qiao, D. Lin, X. Tang, and L. Van Gool, Temporal Segment Networks: Towards Good Practices for Deep Action Recognition, in European Conference on Computer Vision (ECCV), Amsterdam, The Netherlands, 2016.

- **L. Wang**, Y. Qiao, X. Tang, and L. Van Gool, Actionness Estimation Using Hybrid Fully Convolutional Networks, in IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), Las Vegas, Nevada, USA, 2016.

- B. Zhang, **L. Wang**, Y. Qiao, Z. Wang, and H. Wang, Real-time Action Recognition with Enhanced Motion Vector CNNs, in IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), Las Vegas, Nevada, USA, 2016.

- **L. Wang**, Y. Qiao, and X. Tang, Action Recognition with Trajectory-Pooled Deep-Convolutional Descriptors, in IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), Boston, Massachusetts USA, 2015.

- **L. Wang**, Y. Qiao, and X. Tang, Video Action Detection with Relational Dynamic-Poselets , in European Conference on Computer Vision (**ECCV**), Zurich, Switzerland, 2014.

- X. Peng*, **L. Wang***, Y. Qiao, and Q. Peng, Boosting VLAD with Supervised Dictionary Learning and High-Order Statistics, in European Conference on Computer Vision (**ECCV**), Zurich, Switzerland, 2014. (first two authors contribute equally)

- Z. Cai, **L. Wang**, X. Peng, and Y. Qiao, Multi-view Super Vector for Action Recognition, in IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), Columbus, Ohio, USA, 2014 (**oral presentation**).

- **L. Wang**, Y. Qiao, and X. Tang, Mining Motion Atoms and Phrases for Complex Action Recognition, in IEEE International Conference on Computer Vision (**ICCV**), Sydney, Australia, 2013.

- **L. Wang**, Y. Qiao, and X. Tang, Motionlets: Mid-Level 3D Parts for Human Motion Recognition, in IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), Portland, Oregon, USA, 2013.

Other Conference Papers

- Y. Wang, J. Song, **L. Wang**, L. Van Gool, and O. Hilliges, Two-Stream SR-CNNs for Action Recognition in Videos, in British Machine Vision Conference (BMVC), York, UK, 2016.

- Z. Wang, Y. Wang, **L. Wang**, and Y. Qiao, Codebook Enhancement of VLAD Representation for Visual Recognition, in IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Shanghai, China, 2016.

- X. Peng, **L. Wang**, Y. Qiao, and Q. Peng, A Joint Evaluation of Dictionary Learning and Feature Encoding for Action Recognition, in International Conference on Pattern Recognition (ICPR), Stockholm, Sweden, 2014.

- X. Wang, **L. Wang**, and Y. Qiao, A Comparative Study of Encoding, Pooling and Normalization Methods for Action Recognition, in Asian Conference on Computer Vision (ACCV), Daejeon, Korea, 2012.

- **L. Wang**, Y. Wu, T. Lu, and K. Chen, Multiclass Object Detection by Combining Local Appearances and Context, in ACM Conference on Multimedia (ACM MM), Scottsdale, Arizona, USA, 2011.

- **L. Wang**, Y. Wu, Z. Tian, Z. Sun, and T. Lu, A Novel Approach for Robust Surveillance Video Content Abstraction, in Pacific-Rim Conference on Multimedia (PCM), Shanghai, China, 2010.

ACADEMIC SERVICE

Journal Reviewer

- Reviewer of IEEE Transactions on Pattern Analysis and Machine Intelligence (**T-PAMI**)
- Reviewer of IEEE Transactions on Image Processing (**T-IP**)
- Reviewer of IEEE Transactions on Neural Networks and Learning Systems (**T-NNLS**)

- Reviewer of IEEE Transactions on Multimedia (**T-MM**)
- Reviewer of IEEE Transactions on Circuits and Systems for Video Technology (**T-CSVT**)
- Reviewer of Computer Vision and Image Understanding (**CVIU**)
- Reviewer of Image and Vision Computing (**IVC**)
- Reviewer of Pattern Recognition (**PR**)
- Reviewer of Pattern Recognition Letter (**PRL**)
- Reviewer of Machine Vision and Applications (**MVA**)
- Reviewer of Journal of Visual Communication and Image Representation (**JVCI**)

Program Committee and Conference Reviewer

- Program Chair of CVPR17 workshop on learning from web data
- Program Committee of CVPR15, ICCV15 workshop on ChaLearn LAP
- Program Committee of ECCV16 workshop on TASK-CV
- Reviewer of European Conference on Computer Vision (**ECCV**), 2016
- Reviewer of Asian Conference on Computer Vision (**ACCV**), 2016
- Reviewer of International Conference on Pattern Recognition (**ICPR**), 2016
- Reviewer of IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2017
- Reviewer of IEEE International Conference on Computer Vision (**ICCV**), 2017
- Reviewer of IEEE International Conference on Automatic Face and Gesture Recognition (**FG**), 2017