

Ming Lin — Resume

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Education

- Dec 2013** - Carnegie Mellon University, Pittsburgh, PA 15213, United States
- Jul 2014** Research Scholar at School of Computer Science
Advisor: Alexander G. Hauptmann (<http://www.cs.cmu.edu/~alex/>)
- Nov 2012** - Michigan State University, East Lansing, MI 48824, United States
- Nov 2013** Research Scholar at Department of Computer Science and Engineering
Advisor: Rong Jin (<http://www.cse.msu.edu/~rongjin/>)
- Sep 2008** - Tsinghua University, Beijing, China.
- Jul 2014** Ph.D. student at Department of Automation
Advisor: Changshui Zhang (<http://bigeye.au.tsinghua.edu.cn/english/>)
- Sep 2004** - Tsinghua University, Beijing, China.
- Jul 2008** Bachelor at Department of Automation

Working Experience

- Aug 2014** - Carnegie Mellon University, Pittsburgh, PA 15213, United States
- Present** Postdoctoral Research Fellow at School of Computer Science, Innovate new machine learning approaches to improve the video event detection system. Design new feature presentation and multiple feature fusion system. Anticipated in the Multimedia Event Detection (MED) task in TREC Video Retrieval Evaluation (TRECVID) 2014. **Our team Ranked 1st** in 6 out of 8 conditions after processing > 2.5TB video data.

Academic Activities

■ Reviewer of Conference

International Joint Conference on Artificial Intelligence (IJCAI 2015), European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD 2011), SIAM International Conference on Data Mining (SDM 2011), Pacific Rim International Conference on Artificial Intelligence (PRICAI 2010).

■ Reviewer of Journals

Neurocomputing, Computer Vision and Image Understanding.

Publications

■ Conferences

- [1] **Ming Lin**, Zhengzhong Lang, Alexander G. Hauptmann. Density Corrected Sparse Recovery when R.I.P. Condition is Broken. International Joint Conference on Artificial Intelligence (IJCAI), 2015.
- [2] **Ming Lin**, Rong Jin, Changshui Zhang. Efficient Sparse Recovery via Adaptive Non-Convex Regularizers with Oracle Property. Uncertainty in Artificial Intelligence (UAI), 2014.
- [3] Zhenzhong Lan, **Ming Lin**, Xuanchong Li, Alexander G. Hauptmann, Bhiksha Raj. Beyond Gaussian Pyramid: Multi-skip Feature Stacking for Action Recognition. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2015.
- [4] Chuang Gan, **Ming Lin**, Yi Yang, Yueting Zhuang and Alexander G. Hauptmann. Exploring Semantic Inter-class Relationships (SIR) for Zero-shot Action Recognition. Association for the Advancement of Artificial Intelligence (AAAI), 2015.
- [5] Lijun Zhang, Jinfeng Yi, **Ming Lin**, Xiaofei He. Online Kernel Learning with a Near Optimal Sparsity Bound. International Conference on Machine Learning (ICML), 2013.

■ Journals

- [1] **Ming Lin**, Shifeng Weng, Changshui Zhang. On the Sample Complexity of Random Fourier Features for Online Learning. ACM Transactions on Knowledge Discovery from Data (TKDD), Volume 8 Issue 3, Pages 13:1–13:19, June 2014.
- [2] Zheng Hu, **Ming Lin**, Changshui Zhang. Dependent Online Kernel Learning with Constant Number of Random Fourier Features. IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 2015.
- [3] **Ming Lin**, Fei Wang, Changshui Zhang. Large-Scale Eigenvector Approximation via Hilbert Space Embedding Nystrom. Pattern Recognition (PR), 48(5), pp 1904-1912, 2015.
- [4] Zheng Pan, **Ming Lin**, Guangdong Hou, Changshui Zhang. Damping proximal coordinate descent algorithm for non-convex regularization. Neurocomputing, vol 152 pp 151-163, 2015.
- [5] Shizhun Yang, **Ming Lin**, Chenping Hou, Changshui Zhang, Yi Wu. A General Framework for Transfer Sparse Subspace Learning. Neural Computing and Applications. Volume 21, Number 7, Pages 1801-1817, August 2012.
- [6] **Ming Lin**, Lijun Zhang, Rong Jin, Shifeng Weng, Changshui Zhang. Online Kernel Learning with Nearly Constant Support Vectors. In Press, Neurocomputing.

Honors and Awards

- Second Prize of the 21st National Physics Olympiad, 2004.
- Best Dissertation for Bachelor's Degree, Tsinghua University, 2008, top 10%.
- Champion & Best Hardware Design Award of the 7th Electronic Design Competition of Tsinghua University, 2005.
- Second Prize of Department of Automation Scholarship, Tsinghua University, 2004.

■ Qualifications

Years of programming experience in C/C++, Matlab.

Solid skills in Python, Java and assembly languages.

Ability to design AI programs running on an embedding system with less than 4KB memory.