

## Lichen Wang

Northeastern University  
427 Richards Hall, 360 Huntington Avenue,  
Boston, MA 02115, USA

<https://sites.google.com/site/lichenwang123>  
wanglichenxj@gmail.com  
+1-(857)-200-8973

### Education

- 09/2016–Present **Northeastern University (NEU), Boston, USA**  
*Ph. D Candidate* *Major: Computer Engineering, GPA: 4.0*  
*Supervisor: Yun Raymond Fu*
- 09/2013–07/2016 **Xi'an Jiaotong University (XJTU), Xi'an, China**  
*Master of Engineering* *Major: Electronic and Information Engineering, GPA: 3.3*  
*Supervisor: Aimin Zhang*  
*Thesis: Vision Based PCB Defects Inspection System Implementation*
- 09/2009–09/2013 **Harbin Institute of Technology (HIT), Harbin, China**  
*Bachelor of Control Engineering* *Major: Control Engineering, GPA: 3.7*  
*Supervisor: Zhenshen Qu*  
*Thesis: Foreign Matter Inspection of Infusion Bottle Based on Computer Vision*

### Field of Interests

Machine Learning, Computer Vision, Data Mining, Transfer Learning

### Skills

Operation System: Windows, Linux, MacOS  
Language: Python, C/C++, Matlab  
Software: TensorFlow, Pytorch, Matlab, OpenCV, PCL, Multisim, AutoCAD, etc.

### Research Experience

- 09/2016–Present **SMILE Lab, Northeastern University, Boston, USA**
  - Computer vision for multi-view learning, human action recognition
  - Machine learning for multi-label learning, transfer learning, domain adaptation
  - Graph representation learning
  - Natural Language Processing and Reinforcement Learning
- 06/2019–06/2019 **NEC Laboratories America, Princeton, USA**
  - A general graph representation learning framework for wide range of down-stream tasks
- 06/2018–08/2018 **Zebra Technologies Corporation, Lincolnshire, USA**
- 06/2017–08/2017
  - 3D data (point clouds) processing, object localization, and shape analysis
  - Vision-based object/human detection and human pose estimation
- 09/2013–07/2016 **Control and Inspection Lab, Xi'an Jiaotong University, Xi'an, China**
  - Vision based PCB defects inspection system.
  - Vision based navigation system for the Drone Delivery System.
  - Target tracking and recognition based on Optical Camera Communication.
  - Vision based optical fiber size measurement for a manufactory quality control system.
- 07/2013–09/2013 **Nanjing Intelligent Apparatus Co., Ltd., Nanjing, China**
  - Signal generator for power grid flaw simulation.
- 07/2012–09/2013 **Computer Vision Lab, Harbin Institute of Technology, Harbin, China**
  - High speed Vision-based infusion bottle foreign matter inspection program.
  - Implemented a compact machine vision and image processing platform.

## Publication

- 08/2020 Yue Bai, **Lichen Wang**, Yunyu Liu, Yu Yin, and Yun Fu, “Dual-Side Auto-Encoder for High-Dimensional Time Series Segmentation,” 2020 International Conference on Data Mining (ICDM), online
- 07/2020 Yunyu Liu, **Lichen Wang**, Yue Bai, Can Qin, Zhengming Ding, and Yun Fu, “Generative View-Correlation Adaptation for Semi-Supervised Multi-View Learning,” 2020 European Conference on Computer Vision (ECCV), online
- 05/2020 **Lichen Wang**, Bin Sun, Joseph Robinson, Taotao Jing, and Yun Fu, “EV-Action: Electromyography-Vision Multi-Modal Action Dataset,” 2020 IEEE International Conference on Automatic Face and Gesture Recognition (FG), Buenos Aires, Argentina
- 04/2020 **Lichen Wang**, Bo Zong, Qianqian Ma, Wei Cheng, Jingchao Ni, Weichao Yu, Yanchi Liu, Dongjing Song, Haifeng Chen, Yun Fu, “Inductive and Unsupervised Representation Learning on Graph Structured Objects,” 2020 International Conference on Learning Representations (ICLR), Ethiopia
- 02/2020 **Lichen Wang**, Yunyu Liu, Can Qin, Gan Sun, Yun Fu, “Dual Relation Semi-supervised Multi-label Learning,” 2020 The National Conference on Artificial Intelligence (AAAI), New York, USA
- 12/2019 Can Qin, Haoxuan You, **Lichen Wang**, C.-C. Kuo, Yun Fu, “PointDAN: A Multi-Scale 3D Domain Adaption Network for Point Cloud Representation,” 2019 Neural Information Processing Systems (NeurIPS), Vancouver, Canada
- 10/2019 **Lichen Wang**, Zhengming Ding, Seungju Han, Jae-Joon Han, Changkyu Choi, Yun Fu, “Generative Correlation Discovery Network for Multi-Label Learning,” 2019 IEEE International Conference on Data Mining (ICDM) (Regular paper), Beijing, China
- 09/2019 Denghui Zhang, Junming Liu, Hengshu Zhu, Yanchi Liu, **Lichen Wang**, Pengyang Wang, Hui Xiong, “Job2Vec: Job Title Benchmarking with Collective Multi-View Representation Learning,” 2019 ACM International Conference on Information and Knowledge Management (CIKM) (Regular paper), China
- 08/2019 **Lichen Wang**, Zhengming Ding, Zhiqiang Tao, Yunyu Liu, Yun Fu, “Generative Multi-View Human Action Recognition,” 2019 International Conference on Computer Vision (ICCV) (Oral presentation), Seoul, Korea
- 08/2019 Can Qin, **Lichen Wang**, Yunlun Zhang, Yun Fu, “Generatively Inferential Co-Training for Unsupervised Domain Adaptation,” 2019 International Conference on Computer Vision (ICCV) Workshop (Best paper award), Seoul, Korea
- 08/2019 Gan Sun, Yang Cong, **Lichen Wang**, Zhengming Ding, Yun Fu, “Online Multi-task Clustering for Human Motion Segmentation,” 2019 International Conference on Computer Vision (ICCV) Workshop, Seoul, Korea
- 09/2018 **Lichen Wang**, Zhengming Ding, Yun Fu, “Low-Rank Transfer Human Motion Segmentation,” IEEE Transactions on Image Processing (TIP)
- 09/2018 Yulun Zhang, Kunpeng Li, Kai Li, **Lichen Wang**, Bineng Zhong, Yun Fu, “Image Super-Resolution Using Very Deep Residual Channel Attention Networks,” 2018 European Conference on Computer Vision (ECCV), Munich, Germany
- 07/2018 **Lichen Wang**, Zhengming Ding, Yun Fu, “Adaptive Graph Guided Embedding for Multi-label Annotation,” 2018 International Joint Conference on Artificial Intelligence (IJCAI), Stockholm, Sweden
- 01/2018 **Lichen Wang**, Zhengming Ding, Yun Fu, “Learning Transferable Subspace for Human Motion Segmentation,” 2018 The National Conference on Artificial Intelligence (AAAI), New Orleans, USA
- 07/2015 **Lichen Wang**, Aimin Zhang, Chujia Guo, Pervez Bhan, Tian Yan, “Modified Multi-target Recognition Based on CamCom,” 2015 Chinese Control Conference (CCC), Hangzhou, China
- 05/2015 **Lichen Wang**, Aimin Zhang, Chujia Guo, Songyun Zhao, Pervez Bhan, “3-D Reconstruction for SMT Solder Joint Based on Joint Shadow,” 2015 Chinese Control and Decision Conference (CCDC), Qingdao, China
- 07/2015 Zhenshen Qu, **Lichen Wang**, Wenhua Jiao, et al. “Novel Methods and System of Foreign Matter Inspection in Infusion Bottle,” Authorized China’s Invention Patent #2013102084539
- 06/2015 **Lichen Wang**, Min Wu, Qinglin Liu, “Vision Based Evaporator Frosting Inspection System,” Authorized China’s Invention Patent # 201511025257.3

## Honors and Awards

2020	AAAI Student Travel Award
2017	AAAI Student Travel Award
2015	Excellent Postgraduate in Xi'an Jiaotong University (20%)
2015	Third prize of Microsoft Imagine Cup Competition in Shaanxi (1%) As a team leader and be in charge of developing a vision based navigation system and part of modeling and simulating a quadrotor control system.
2013	Meritorious Winner of International Mathematical Contest in Modeling (MCM/ICM) (15%)
2011	National Scholarship (the undergraduate students highest honor in China, 3%)
2011	First Prize of National Undergraduate Mathematical Contest in Heilongjiang Province (5%)