

# Lichen Wang

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## Education

- 07/2016 – 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 Detection 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 Detection of Infusion Bottle based on Computer Vision*

## Field of Interests

Computer Vision, Deep Learning, Machine Learning, Transfer Learning, Representation learning.

## Skills

Operation System: Windows, Linus (Ubuntu), OSX.

Language: C/C++, Python, Matlab.

Software: Tensorflow, OpenCV, Matlab, Anaconda, PCL, etc.

## Research Experience

- 09/2016–Present **SMILE Lab, Northeastern University, Boston, USA**  
**Position:** Research Assistant **Supervisor:** Yun Raymond Fu
- Multi-label image annotation/retrieval.
  - Transfer Subspace Clustering for Human Motion Segmentation.
  - Multi-Modality Human Motion Recognition and Dataset.
- 09/2013–07/2016 **Control and Detection Lab, Xi'an Jiaotong University, Xi'an, China**  
**Position:** Research Assistant **Supervisor:** Aimin Zhang
- Vision based PCB defects detection system.
  - Vision based navigation system for Automatic Drone Delivery System.
  - Multi-target tracking and recognition based on Optical Camera Communication.
  - Vision based optical fiber size measurement system.
- 07/2011–09/2013 **Computer Vision Lab, Harbin Institute of Technology, Harbin, China**  
**Position:** Research Assistant **Supervisor:** Zhenshen Qu
- Software for a compatible and compact machine vision platform.
  - Foreign matter detection in infusion bottle, a high speed vision based bottle liquid volume estimation program and a bottle body defects detection program.
  - Developed a rendezvous and docking semi-physical simulation system in charge of cooperative target tracking and localization.

## Working Experience

- 06/2018–09/2018 **Zebra Technology, IL, USA**
- & 06/2017–09/2017 **Position:** Computer Vision Research Intern **Supervisor:** Yan Zhang & Kevin O'Connell
- Vision based 3D data processing, detection, localization, and recognition
  - Person and object detection based on computer vision (Dataset building, algorithm testing, and system deployment)
- 07/2013–09/2013 **Nanjing Intelligent Apparatus Co., Ltd., Nanjing, China**  
**Position:** Research Intern **Supervisor:** Aimin Zhang & Hang Zhang
- Developed a signal generator simulation system.

## Publication

- 09/2018     **Lichen Wang**, Zhengming Ding, Yun Fu, "Low-Rank Transfer Human Motion Segmentation," IEEE Transactions on Image Processing (TIP)
- 06/2018     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
- 02/2018     **Lichen Wang**, Zhengming Ding, Yun Fu, "Learning Transferable Subspace for Human Motion Segmentation," 2018 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), Hangzhong, 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
- 06/2016     **Lichen Wang**, Min Wu, Qinglin Liu, "Vision Based Evaporator Frosting Detection System," Authorized China's Invention Patent # 201511025257.3
- 07/2015     Zhenshen Qu, **Lichen Wang**, Wenhua Jiao, et al. "Novel Methods and System of Foreign Matter Detection in Infusion Bottle," Authorized China's Invention Patent #2013102084539

## Presentation

- 2018        IJCAI Conference, Stockholm, Sweden
- 2018        AAAI Conference, New Orleans, USA
- 2015        CCC Conference, Hangzhong, China
- 2013        CCDC Conference, Qingdao, China

## Honors and Awards

- 2018        AAAI Student Travel Award
- 2015        Third prize of Microsoft Imagine Cup Competition in Shaanxi Province (1%).
- 2015        Excellent Postgraduate in Xi'an Jiaotong University (20%).
- 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%).