

Jianfeng Wang

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Address: Beijing, China

EDUCATION

- Bachelor of Science (BSc) 2009.9-2013.6  
Telecommunications Engineering with Management  
Beijing University of Posts and Telecommunications (BUPT)  
Major GPA: 87.14 / 100  
Overall GPA: 85.10 / 100
  - Bachelor of Science (BSc) 2009.9-2013.6  
Telecommunications Engineering with Management  
Queen Mary, University of London (QMUL), UK  
Joint Programme with BUPT

## PUBLICATIONS

- [1] Shikai Chen, **Jianfeng Wang**, Yuedong Chen, Zhongchao Shi, Xin Geng, Yong Rui  
"Auxiliary Task Guided Label Distribution Learning for Facial Expression Recognition"  
Under review, International Conference on Computer Vision (ICCV-2019).

[2] Yuedong Chen, **Jianfeng Wang**, Shikai Chen, Zhongchao Shi, Jianfei Cai  
"Facial Motion Prior Networks for Facial Expression Recognition"  
Under review, IEEE International Conference on Visual Communications and Images Processing (VCIP-2019).

[3] **Jianfeng Wang**, Xiaolin Hu  
"Convolutional Neural Networks with Gated Recurrent Connections"  
Under review, IEEE Trans on Pattern Analysis & Machine Intelligence (TPAMI).

[4] **Jianfeng Wang**, Xiaolin Hu  
"Gated Recurrent Convolutional Neural Network for OCR"  
In Proc. of Advances in Neural Information Processing Systems (NIPS), 2017.  
The source code and pre-trained model can be found at:  
<https://github.com/Jianfeng1991/GRCNN-for-OCR>

[5] Haihong E, **Jianfeng Wang**, Meina Song, Qiang Bi, Yingyi Liu  
"Incremental Weighted Bipartite Algorithm for Large-scale Recommendation Systems"  
In Turkish Journal of Electrical Engineering & Computer Science, 2016.

**INTERNSHIPS or WORKING EXPERIENCE**      AI Lab Lenovo Research Computer Vision Researcher

2017.7-present

- Project: Face Recognition
    - We studied deep learning and implemented a new combined angular margin loss for face recognition.
    - We implemented MobileNet, MobileNet-v2, ShuffleNet and ShuffleNet-v2 for face recognition on mobile devices.
    - We now investigating a new end-to-end transfer learning framework that is capable of dealing with training datasets subjecting to long-tail distribution.
  - Project: Facial Expression Recognition (FER)
    - We proposed a Facial Motion Prior Networks which involves the facial motion mask for the FER task.

- We proposed a new method that introduces related auxiliary tasks to guide the network to learn facial expressions.

- Project: Face Anti-Spoofing
  - We investigate new framework for face anti-spoofing problem.

**State Key Laboratory of Intelligent Technology and Systems, Department of Computer Science and Technology, Tsinghua University.**

Visiting Student, Supervised by Prof. Xiaolin Hu

2015.10-2017.5

- Project: Scene Text Recognition
  - We proposed a new network architecture which is called Gated Recurrent Convolution Neural Network for scene text recognition. The proposed model achieved state-of-the-art results on several benchmark datasets.
- Project: Object Recognition
  - We applied our GRCNN to object recognition task to verify its effectiveness. It obtained very competitive results on CIFAR, SVHN and ImageNet-2012.
- Project: Action Recognition in Videos
  - We studied the 3D convolution networks, and recurrent neural network for action recognition.

**PCA-CAD Center, Department of Computer Science, Beijing University of Posts and Telecommunications.**

Visiting Student, Supervised by Prof. Haihong E and Meina Song

2013.11-2015.10

- Incremental Weighted Bipartite Network for Recommender System:
  - We proposed and implemented an incremental algorithm to update the weights efficiently in weighted bipartite network for recommender system.
- Collaborative filtering recommender system:
  - We implemented user-based algorithm and item-based algorithm for book recommendation system in university.
- Text classification: we designed and implemented a system for text classification. It contains:
  - Chinese word segmentation
  - TF-IDF for feature representation
  - Naive Bayes for text classification.

## MISCELLANEOUS

- **Academic Services:** Reviewer for ICML2019, NeurIPS2019.
- **Toolbox:** Experienced with Torch, Caffe, Tensorflow.
- **Honors and Awards:**

– Second-class scholarship of the school (top 8%) 2009-2010

– Third-class scholarship of the school (top 10%) 2010-2011

– First prize, School Physics Competition 2009

– Ranked 2nd in Chinese Traffic Sign Recognition Competition 2015

- **Language:** IELTS 7.0

Reading: 8.0, Listening: 7.5, Writing: 6.0, Speaking: 6.5