

# LUCAS XU

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## 🎓 EDUCATION

**Huazhong Agricultural University** 2016.09 – 2019.06

*Master* Machine Learning & Computer Vision

**Hubei University of Technology** 2011.09 – 2015.06

*Bachelor* Management Information System

## 👤 EXPERIENCE

**Blibee** 2019.02 – Present

Store Intelligent Decision-making Department

Computer Vision Algorithm Engineer

- Online Food Recognition System: 0.963 AP for detection, 95.66% accuracy for recognition
- Daily fresh food recognition with 0.920 AP and 99.09% accuracy
- Products (Tissue&Clothing) Re-identification with 99.43% rank-1 accuracy
- Design and implementation of online deep learning serving system for assistants' behavior analysis and asynchronous product recognition (PyTorch + Django + TensorRT + Nginx)
- Develop a web-based image retrieval annotation system (PyTorch + Django + Faiss)

**DiDi** 2018.09 – 2019.01

Security Product & Technology Department

Deep Learning Intern

- License image quality recognition (P=93.15%, R=98.35%) and scene recognition (P=99.89%, R=99.90%)
- License type recognition (R=99.77%, R=99.76%) and completeness recognition (P=99.80%, R=99.81%)
- Facial beauty prediction with 0.89 Pearson Correlation
- Write 21 patents related to safety products

**Aisino Corporation** 2015.06 – 2016.06

Financial Software Department

Software Engineer

- Develop and maintain 2 web information system based on Java SSM framework and MySQL
- Multi-thread web crawling system (e.g. Ctrip, Dazhong Dianping, AMap)
- Data statistics, analysis and visualization, which provide important data support for offline product location

## 🎓 RESEARCH

### Publications (Machine Learning/Computer Vision)

- **Xu L**, Fan H, Xiang J. Hierarchical Multi-Task Network For Race, Gender and Facial Attractiveness Recognition[C]//2019 IEEE International Conference on Image Processing (ICIP). IEEE, 2019: 3861-3865. (Oral. CCF C, EI)
- Fan H, **Xu L**, Xiang J. Complementary Siamese Networks for Robust Visual Tracking[C]//2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP). IEEE, 2019: 2247-2251. (CCF B, EI)
- **Xu, Lu**, Jinhai Xiang, and Xiaohui Yuan. "CRNet: Classification and Regression Neural Network for Facial Beauty Prediction." Pacific Rim Conference on Multimedia (PCM). Springer, Cham, 2018. (CCF C, EI)
- **Xu L**, Xiang J, Wang Y, et al. Data-Driven Approach for Quality Evaluation on Knowledge Sharing Platform[C]//2019 International Conference on Machine Learning and Cybernetics (ICMLC). IEEE, 2019: 1-6. (EI)

### Professional Service

- Reviewer of Elsevier Journal <Neurocomputing> (SCI, IF=4.072)
- Reviewer of <Indonesian Journal of Electrical Engineering and Computer Science> (EI)

## ⚙️ SKILLS

- English: (CET-6: 575/710). Proficiency in Reading and Writing
- Algorithm: Deep Learning/Machine Learning/Computer Vision/Data Mining/Data Analysis
- Programming: Java == Python > R > C++
- Framework: PyTorch/TensorFlow/MXNet/Scikit-Learn/OpenCV/DeepLearning4J
- Database: MongoDB/MySQL/Oracle/Redis
- Others: Web Crawler/Web Development/Office/Docker(Familiar)/ $\LaTeX$