

# LU XU

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## 🎓 EDUCATION

**Huazhong Agricultural University (211 Project)** 2016.09 – 2019.06

*Master* Machine Learning & Computer Vision

- 1st Prize in Annual Academic Report 2018.12
- 1st Scholar Prize 2018.10
- 1st Prize in Annual Academic Report 2017.12
- 2nd Scholar Prize 2017.10

**Hubei University of Technology** 2011.09 – 2015.06

*Bachelor* Management Information System

- Excellent Paper: «Research on Hot Topic Detection and Tracking based on Incremental Clustering» 2015.06
- Software Copyright: Hot Topic Detection & Tracking System (2015SR165186) 2015.06
- NECCS 3rd Prize 2014.04

**English: (CET-6: 575/710); Proficiency in Reading and Writing**

## 🎓 RESEARCH

**Deep Learning/Face Analysis/Machine Learning (First Author)** 2017.01 – Present

- Hierarchical Multi-task Networks for Race, Gender, and Facial Attractiveness Recognition (submitted to ICASSP2019)
- Multi-Task Tree Convolutional Neural Network for Facial Expression Recognition and Face Analysis
- Data-driven Approach for Quality Evaluation on Knowledge Sharing Platform
- CRNet: Classification and Regression Neural Network for Facial Beauty Prediction (PCM2018, CCF C)
- Transferring Rich Deep Features for Facial Beauty Prediction (Computers & Electrical Engineering, SCI)

**Projects & Competition** 2016.09 – Present

- Plant Disease Recognition Center (PDRC): Requirement Analysis/Architecture Design/Deployment
- First place on Facial Expression Recognition Challenge on the challenging Real-world Affective Face Database
- XCloud<sup>1</sup>: an Open-Source AI Cloud Platform based on Java/Python, which provides common data & AI services with RESTful APIs. The APIs have been called over 200,000 times.

## 👥 EXPERIENCE

**DiDi** 2018.09 – Present

*Algorithm Intern*

Security Product & Technology

- License image quality recognition (reflection/blur) with 93.15% Precision and 98.35% Recall
- Facial beauty prediction with 0.89 Pearson Correlation
- License type recognition with 99.77% Precision and 99.76% Recall
- Scene recognition (in car/out of car) with 99.89% Precision 99.90% Recall
- License completeness with 99.67% Precision and 99.68% Recall
- Complete the writing of 20 patents related to safety products

**Guangzhou Yingzi Technology** 2018.02 – 2018.03

*Deep Learning/Python Engineer*

Animal Identification Center

- Implementation of Amazon S3 data interaction module; Cleaning and pre-processing of existing Label-Me data
- Implement and train face detection model (MTCNN), and face identification model (FaceNet) based on TensorFlow
- Encapsulate RESTful API based on Django, V1.0 achieves an accuracy over 95%

<sup>1</sup><https://github.com/lucasxlu/XCloud.git>

**Wuhan ZhiLiFeng Information .,Ltd.**

2017.07 – 2017.09

*Python/Machine Learning Engineer***Malicious Image Recognition**

- Developing machine learning & skin models to recognize pornographic images with 92.17 accuracy
- Developing deep model (Center Loss + Softmax Loss) to recognize politically sensitive images with 99.87% accuracy
- Model training and deployment based on Django

**Beijing Jiewen Technology Co.,Ltd., Huazhong Developing Center.**

2015.06 – 2016.06

*Java/Web Spider Developer***Financial Information System & Multi-thread Web Crawling System**

- Develop and maintain web information system based on Java SSM framework and MySQL database.
- Develop web crawlers to collect data from O2O websites (e.g. Ctrip, Dazhong Dianping, AMap) based on Python/Java and MySQL/MongoDB.
- Data statistics, analysis and visualization. It provides important data support for company offline product location

**⚙️ SKILLS**

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- Algorithm: Deep Learning/Machine Learning/Computer Vision/Data Mining/Data Analysis
- Programming: Java == Python > R > C++
- Framework: PyTorch/TensorFlow/Scikit-Learn/OpenCV
- Database: MongoDB/MySQL/Oracle
- Others: Web Crawler/Web Development/PPT