

# Lu Xu

WeChat: xulu0620

Email: xulu\_xl@foxmail.com

Github: <https://github.com/lucasxlu>

OBJECTIVE	A position in machine learning, deep learning, computer vision and other related data science fields.	
EDUCATION	<b>Huazhong Agricultural University</b>	<b>2016.09–2019.06</b>
	Master of Science	Machine Learning and Computer Vision
	<ul style="list-style-type: none"><li>I won the <i>1st Prize in Academic Research Report</i> (outperform all Ph.Ds), “Combining Machine Learning and data-driven Approaches for AI Services”.</li><li>I was awarded the <i>2nd Scholar Prize</i> in 2017.</li></ul>	
	<b>Hubei University of Technology</b>	<b>2011.09–2015.06</b>
	Bachelor of Management	Information Management and Information System
	Concentration: Text Mining and Machine Learning	
	<ul style="list-style-type: none"><li>My undergraduate thesis <i>Research on Hot Topic Detection and Tracking based on Incremental Clustering</i> was awarded as <i>excellent paper</i> among all papers of Hubei province in 2015.</li><li>My <i>Hot Topic Discovery System</i> was authorized (2015SR165186) in 2015.</li><li>I won the <i>3rd Prize in NECCS</i> (national level) in 2014.</li></ul>	
COMPETITION	My algorithm named <i>TreeNet</i> ranks the <b>1st</b> place on <i>Facial Expression Recognition Challenge</i> on <i>Real-word Affective Face Database (RAF-DB)</i> .	
SKILLS	<p><i>Programming:</i> Java == Python &gt; R &gt; C++</p> <p><i>Algorithm:</i> Deep Learning/Machine Learning/Computer Vision/Data Mining/Data Analysis</p> <p><i>Framework:</i> PyTorch/TensorFlow/Scikit-Learn/OpenCV</p> <p><i>Database:</i> MongoDB/MySQL/Oracle</p> <p><i>English:</i> CET-6 (575/710); Proficiency in reading and writing.</p> <p><i>Platform:</i> Linux, Windows.</p> <p><i>Others:</i> Web Crawler/Web Development/PPT</p>	
RESEARCH	<b>Facial Attribute Analysis</b>	<b>2017.09–2018.05</b>
	Developing deep models to accurately predict facial attributes (beauty, race, gender, expression, age and etc.) from a given input portrait.	
	<b>Academic Papers</b> <ul style="list-style-type: none"><li>Hierarchical Multi-task Networks for Race, Gender and Facial Attractiveness Recognition (submitted to ACM Multimedia 2018).</li><li>CRNet: Classification and Regression Neural Networks for Facial Beauty Prediction (Accepted by PCM 2018).</li><li>Transferring Rich Deep Features for Facial Beauty Prediction.</li></ul>	
	<b>Data Mining</b>	<b>2018.01–2018.03</b>
	Developing computational methods to effectively evaluate online knowledge services' quality.	

## Academic Papers

- Data-driven Approach for Quality Evaluation on Knowledge Sharing Platform.

## *XCloud*

**2016.12–2017.09**

I develop an AI Cloud Platform named *XCloud* providing AI and data services for both business companies and academic organization. The APIs have been called for over than 150,000 times till now.

## Features

- CV: Face Comparision, Facial Beauty Prediction, Facial Expression Recognition, Face Detection and Facial Landmarks Localisation.
- NLP: Sentiment Analysis, News Classification and Hot Keywords Extraction.
- Data Services: Web Crawling, Data Analysis, and Data Visualization (HTML5).

## EXPERIENCE

### *Deep Learning/Python Engineer*

**2018.02–2018.03**

We develop an *Pig Face Recognition System* with *Guangzhou Yingzi Incorporation*, the system provide *face detection*, *face comparision* with *RESTful APIs* based on TensorFlow and Django. The *Pig Face Recognition System* achieves a mAP with approximate 95%.

- Building deep models (MTCNN + FaceNet) and training on GPU server.
- Encapsulate RESTful APIs and web backend development based on Django and MySQL.

### *Machine Learning Algorithm Engineer*

**2017.07–2017.09**

I developed an *Mal-Image Recognition System* with *Wuhan ZhiLiFeng Information Incorporation*, the model achieves a mAP with 92.17% on detecting mal-images.

- Image data crawling and preprocessing.
- Building machine learning algorithms.
- Model training and deployment.

### *Web Crawling and Java Developer*

**2015.06–2016.06**

During working at *Beijing Jiewen Technology Co.,Ltd.*, *Huazhong Developing Center*. My duties are developing and maintaining *Financial Information System*, and developing *Web Crawling System* based on Java and Python. The *Web Crawling System* has crawled million-level datasets from Internet.

- Developing and maintaining web information system based on Java SSM framework and MySQL database.
- Developing web crawlers to collect data from O2O websites (e.g. Ctrip, Dazhong Dianping, AMap), and storing them in MySQL and MongoDB.
- Data statistics, analysis and visualization based on HTML5.

## INTERESTS

Coding, Reading (Technology, Internet and Business), Photographing, Writing (Data Analysis Report), Design (PPT, UI)  
I like solving real-life problems using data-driven methods.