

Mengxiao LIN

EMAIL: mengxiao.lin.hu@gmail.com
GITHUB: [linmx0130](https://github.com/linmx0130)
HOMEPAGE: <https://mengxiaolin.me>

EDUCATION

School of Data Science, **Fudan University**

Sep 2014 - Jul 2018

B.Eng in Software Engineering

Selected courses: Statistical Learning and Machine Learning (A), Numerical Algorithms (A-), Introduction to Computer System (A), Introduction to Database (A)

Overall GPA: 3.45/4.0 Major GPA: 3.55/4.0

EXPERIENCE

Researcher at **Megvii Technology Ltd (Face++)**

Jul 2018 - Present

- Proposed a novel neural network for human pose estimation to ease the overlapping problem in crowded scene and improved model performance by 10% on real world data and 20% on synthesized data of crowded scenes. The results were submitted to CVPR 2019.
- Leading the research of applying neural architecture search on face recognition task.

Author of **FudanParser** presented at **CoNLL 2018 Shared Tasks**

Jan 2018 - Jun 2018

- Worked as the core team member and responsible for design and implementation of FudanParser system.
- Proposed a method in utilizing cross-lingual information by morphs and the ensemble strategy.
- Our submission outperformed baseline and placed 17th in the rank list.

Research Intern at **Megvii Technology Ltd (Face++)**

Jan 2017 - Jun 2017

- Proposed and implemented a method in utilizing head position information to improve pedestrian detection performance.
- Optimized object detection performance on convolutional neural network for mobile devices (ShuffleNet). The results are concluded and published in CVPR 2018.
- Implemented high-performance components (channel shuffle operator and ROIAlign) with CUDA for internal use in Face++.

Research Assistant at **Fudan University**

Jun 2015 - Jun 2018

- Implemented a fast sequence labeling model consisting of a convolutional network and CRF.
- Implemented context-specific character representations for Chinese word segmentation and POS tagging. Results summarized in paper published in IJCAI-16.
- Proposed a novel attention model for transition-based dependency parsing by incorporating information from the stacks and buffers in parsers. Improved UAS by around 1% on English and French corpus.

OPEN-SOURCE PROJECTS

Yet Another MXnet DETection

Oct 2017

- Reimplemented Faster-RCNN algorithm in MXNet Gluon framework.
- Source code hosted on https://github.com/linmx0130/ya_mxnet and has won more than 50 stars!

PUBLICATIONS AND TECHNICAL REPORTS

(* indicates equal contribution)

1. Danlu Chen*, **Mengxiao Lin***, Zhifeng Hu* and Xipeng Qiu. A Simple yet Effective Joint Training Method for Cross-Lingual Universal Dependency Parsing. In *Proceedings of the CoNLL 2018 Shared Task: Multilingual Parsing from Raw Text to Universal Dependencies*, 2018.
2. Xiangyu Zhang, Xinyu Zhou, **Mengxiao Lin** and Jian Sun. ShuffleNet: An Extremely Efficient Convolutional Neural Network for Mobile Devices. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018.
3. Xiaoqing Zheng, Jiangtao Feng, **Mengxiao Lin** and Wenqiang Zhang. Context-Specific and Multi-Prototype Character Representations. In *Proceedings of the Twenty-Fifth International Joint Conference on Artificial Intelligence (IJCAI)*, 2016.