

Chen Xia

Tel: +1 (412) 773-0947

Homepage: <http://www.cs.cmu.edu/~chenxia>

GitBook: <https://stanforxc.gitbooks.io/python-source-code/content/>

Email: chenxia@cs.cmu.edu

GitHub: <https://github.com/Stanforxc>

EDUCATION

Carnegie Mellon University, School of Computer Science

Pittsburgh, PA, USA

Language Technologies Institute

08/2018 - 12/2019(expect)

- **Selected Courses:** Machine Learning(Phd-level), Language & Statistics(Phd-level), Machine Translation and Sequence to Sequence model

Tongji University, School of Software

Shanghai, China

B.E. in Software Engineering

09/2014 - 06/2018

- **Core Courses:** Parallel Programming, Data Mining, Convex Optimization, Objected-Oriented Programming, Data Structures, Algorithms, Databases, Computer Networks, Operating Systems, Linear Algebra, Probability and Statistics.

INTERNSHIP EXPERIENCE

Software Engineering Intern, Information System & Technology, Apple

Shanghai, China

Software Engineer (ITDP Program)

11/2017 - 07/2018

- Confidential but get the return offer

RESEARCH EXPERIENCE

NeuLab, Carnegie Mellon University

Pittsburgh, PA, USA

Research Assistant, Supervised by Prof. Graham Neubig

09/2018 - present

- Contributed to DyNet, an open source project based on dynamic computational graph

Xing lab, University of California, Los Angeles

Los Angeles, CA, USA

Summer Research Exchange Program, Supervised by Prof. Yi Xing

07/2017 - 11/2017

Title: PSI Value Prediction based on CNN

- Rebuilt CNN architecture based on AlexNet
- Implemented prototype using Keras and Accelerated model using distributed Tensorflow
- Evaluated and Visualized model based on ROC using Matplotlib
- Outperformed most of the statistical models and Improved the prediction accuracy by 4%

Tongji iLab & Emory University

Shanghai, China

Research Assistant, Supervised by Prof. Tianwei Yu

09/2016 - 07/2017

Title: Nonlinear Differential Network

- Established statistical algorithms to find significant expressed genes of specific symptoms.
- Implemented DCOL matrix and KL-divergence in Python.
- Rewrote the key operation of algorithms in C++, then linked it to Cython Interface.

SELECTED PROJECTS

Neural Machine Translation System

09/2018 – 10/2018

- Encoder-Decoder Model
- Multi-perception Attention, Stacked Bi-directional RNN
- Tuning Technique: Label Smoothing, Input Feeding, Schedule Sampling, Fine tune

Trajectory Prediction based on Hidden Markov Model

02/2017 – 06/2017

- Applied CTrack method from MIT to the real road situation in Shanghai.

Movie Data Analysis

11/2016 - 01/2017

- Collected about 250 thousands movies information, stored data in relational database Mysql and Hive based on Hadoop, and compare the efficiency between two storage models. Built and configured a small cluster on multiple servers using Hadoop.

SKILLS

Programming Languages: Python, C/C++, CUDA

Operating Systems & Frameworks: macOS, Linux, Git, TensorFlow, PyTorch, Keras, DyNet

Languages: Mandarin, English

INTEREST

Programming Language, Machine Learning, Machine Translation, Sequence to Sequence Model, Optimization