

Junyu Luo | Curriculum Vitae

(Chengdu, Beijing) China

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Education&Award

Academic Qualifications.....

- **Sichuan University** **Bachelor**
Computer Science, National Pilot Project(珠峰计划) 2015–2020(One year GAP working in MSRA as intern)

Academic Score.....

- Overall GPA: 3.86, Major GPA: 3.924

Standard Test.....

- TOEFL: 103, GRE: 170+159+3.5

Honors&Awards.....

- **National Scholarship** | National **(THREE TIMES) 2015-2018**
- **Outstanding National Training Program of Innovation and Entrepreneurship for Undergraduates** | National **2017**
- **The first prize in Sichuan Province Lanqiao Programming Contest** | Provincial **2017**
- **The first prize in Sichuan University Mathematics Competition** | Institutional **2016**
- **The second prize in Sichuan University ACM Programming Contest** | Institutional **2016**
- **The First Prize Scholarship of Sichuan University** | Institutional **(THREE TIMES) 2015-2018**
- **Model Student of Academic Records** | Institutional **2017**

Publications.....

- **Junyu Luo**, Yong Xu, Chenwei Tang, and Jiancheng Lv. Learning Inverse Mapping by Autoencoder based Generative Adversarial Nets. The 24th International Conference on Neural Information Processing (ICONIP 2017), pp.207-216, Nov. 2017.
- **Junyu Luo**, Min Yang, Ying Shen, Qiang Qu, and Haixia Chai. Learning Document Embeddings with Crossword Prediction. The Thirty-Third AAAI Conference on Artificial Intelligence (AAAI 2019), Student Abstract, Jan. 2019.
- Zhile Jiang, Shuai Yu, Qiang Qu, Min Yang, **Junyu Luo**, and Juncheng Liu. Multi-task Learning for Author Profiling with Hierarchical Features. The 27th International World Wide Web Conferences, Apr. 2018.
- Changqin Huang, Jia Zhu, Yuzhi Liang, Min Yang, Gabriel Pui Cheong Fung, **Junyu Luo**. An efficient automatic multiple objectives optimization feature selection strategy for internet text classification. International Journal of Machine Learning and Cybernetics, Vol. 10, No.5, pp.1151-1163, May 2019.

Research Experience

- **Research Intern on Knowledge Computing** **JinGe Yao, Jinpeng Wang**
Microsoft Research Lab - Asia(MSRA), Beijing, China *March 2019–Now*
 - Automatic pattern recognition
 - Object detection for special targets

- Research Intern on Medical Images**

○ *University of California(UCLA), Los Angeles, USA*

 - Selected as a CSST Intern under guidance of Professor William Hsu of Medical Imaging Informatics Lab
 - Built a pipeline system for pulmonary nodule analysis from the raw CT images using deep learning algorithms
 - Assisted with data preprocessing and algorithms optimization
 - **Finished with a report and poster presentation**

William Hsu

July 2018–September 2018
- Research Intern on Natural Language Processing**

○ *Shenzhen Institutes of Advanced Technology(SIAT), Chinese Academy of Sciences, Shenzhen, China*

 - Worked on Natural Language Processing projects under guidance of Professor Min Yang
 - Developed methods to generate semantic embedding for long sentences and cross-model searching
 - **One abstract accepted by AAAI 2019 and one long paper is submitted to CIKM 2019**

Min Yang

September 2017–July 2018
- Research Intern on Deep Learning**

○ *MI LAB Sichuan University(SCU), Chengdu, China*

 - Finished one National Training Program of Innovation as leader and major developer and one independent research program under guidance of Professor Jianchen Lv
 - **Selected as national outstanding program and accepted by ICONIP 2017**

Jianchen Lv

September 2016–July 2017

Notable Projects.....

- **Research Project(Ongoing MSRA 2019): 'Structure Finding for Chart Design'**

The project aims at using automatic rule based approaches to find the potential structures in chart designs and extracts them to generate templates for users.

Project Leader, Independent
- **Research Project(Ongoing MSRA 2019) 'Object detection for Chart Objects'**

Creating new approaches to detect chart objects. Unlike traditional common object detection, the chart data are highly homogeneous and abnormal in length-width ratio, which bring huge difficulties to the detection. Hence a new approach is needed for this new special situation.

Project Member, Group
- **Research Project(UCLA 2018): 'Pipeline system for pulmonary nodule analysis'**

The project aims at using automatic approaches to help radiologists to analysis pulmonary nodules based on CT images. To provide a robust system that can perform image processing, lung segmentation, potential candidates detection and false positive reduction steps on general CT scans.

Project Leader, Independent
- **Research Project(SIAT 2018): 'Embedding vectors for long text'**

This project aims to improve the present document embedding approaches on long text. To achieve a better performance I change the original training target of Doc2vec with a novel new target and use the RNN structure to replace the original network.

Project Leader, Independent
- **Research Project(SIAT 2018 Ongoing): 'Cross model embedding'**

This project aims to improve the cross-modal/media retrieval results by improving the cross embedding section. The distribution of embedding outputs can have a great influence on final retrieval results. And based on this I improve the present unsupervised approach.

Project Leader, Independent
- **Personal Project(2017): 'Pix2Pix with Color Distribution'**

An improved Pix2pix network that can assign the desired generated color based on a color mask. The original structure is divided into two parts including texture network and coloring network.

https://github.com/soap117/Color_pix2pix

Project Leader, Independent
- **Personal Project(2019): 'Pytorch Content Based Music Recommendation System'**

Inspired from general text embedding approaches and is based on clustering idea.

<https://github.com/soap117/Tensorflow-Chinese-Twitter-Author-Info-Analysis-System>

Project Leader, Independent
- **National Training Program of Innovation and Entrepreneurship for Undergraduates(SCU 2017): 'A LSTM based approach for microblog users' information mining'**

Using net spider to collect short messages from social network and training an ID classier based on LSTM Cell to

Project Leader, Group

automatically classify users' social backgrounds according to their short messages.

- **Research Project(SCU 2016):** *'Learning Inverse Mapping by Autoencoder'* **Project Leader, Independent**
The project aims to improve the learning result of an inverse map of a pre-trained generator by using the ideas from the Autoencoder structure. The learned inverse map can be used as an unsupervised feature extractor for multiple tasks.

Featured Skills

- Experience in dealing all kinds of data(Image, Text, Video, Web, Audio, CT)
- Familiar with popular deep learning framework(Torch, Tensroflow) and algorithms
- Experience in building web pages and mobile applications
- Experience in using Latex
- Master in C,C++,Python familiar with Matlab, Java, JavaScript