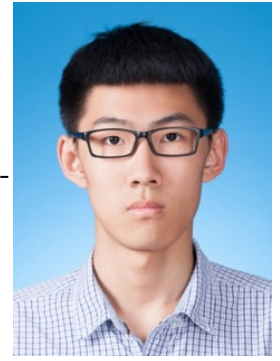# Yifei LI

- Northeastern University, Software College, Shenyang
- email: liyifei_1999@163.com
- Mobile: +86-186 4632 6737

Education

- Sep.2016 --- Jul.2020 Software Engineering International Class, Software College, NEU
- GPA：**4.1383 / 5**   Rank：**2 / 43（4.65%）**
- English：CET- 4: 577   CET- 6: 524
- **Software Engineering International Class is a separate major of Software College, NEU, belonging to the Software Engineering major. Students are selected step by step, and unqualified ones will be quitted from the class. The professors are hired from Universities around the world, and all the major courses are taught in English.**

Main Courses

- Linear Algebra: 96
- Operating System: 96
- Advanced Mathematics: 93
- Data Structure and Algorithms: 91
- Database System: 96
- Probability Theory and Statistics: 91

Interested Fields

I am interested in Deep Learning related fields such as NLP and CV, and Big-Data related fields like Data Mining.
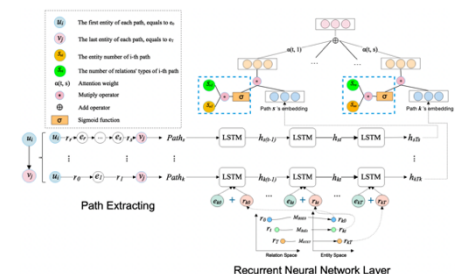
Awards and Honors

Scholarships	**National Scholarship, Twice (1.2%)**	2018.12、2017.12
	First-class Scholarship of Northeastern University, Twice (10%)	2018.12、2017.12
Competitions	2018 Chinese Collegiate Programming Contest (Northeastern Contest), Silver Medal	2018.05
	2018 Chinese Collegiate Programming Contest (Guilin Regional), Bronze Medal	2018.10
	Mathematical Contest in Modeling 2018, Honorable Mention Award	2018.04
	2018 Chinese Collegiate English Contest, Second Prize	2018.04
	2017 Chinese Collegiate Computer Designing Competition (software development), Second Prize	2017.08
Honors	**Outstanding college student of Shenyang (0.4%)**	2018.12
	Excellent Student Model of Northeastern University (1.2%)	2018.12、2017.12

Research and Projects

Proj. 1: Nov.2018 --- Now   Research on Knowledge Graph Embedding based recommendation technology   Core Member

- Construction of KG Embedding Network based on Pytorch (LSTM+Attention)
- Our model considers the combination of entities and relations as input, using a batch of LSTMs to learn features of every path between each user-item pair, finally aggregating all features with Attention mechanism together with two factors: The length of paths and the number of types of relations. Our contributions are: First, analogying to TransR based models, we use mapping matrices to map relations into entities' dimention; second, using Attention instead of Max-pooling as aggregation; third, taking the two factors mentioned above into consideration. Extensive experiments show that our model achieves better performance than state-of-the-art methods.
- A paper is being submitted to KBS (Knowledge Based Systems, SCI District 2, Impact Factor is about 4.5)

Proj. 2: Jun.2018 --- Sep.2018   Algorithm Design of 3D Mixed Pallet Problem   Core Member

- A GA-based solution is proposed to solve the 3D pallet problem for various shapes and numbers of boxes. It is implemented in C++ and tested with real data and randomly generated data, both showing good results.
- The solution is encapsulated into a Web Application for the ABB company's mechanical arm. We also have a cooperation with Xinsong Robots.