

Jingfeng Yang

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EDUCATION

School of Electronics and Computer Science, Peking University, Beijing, China

Sep 2016- July 2019

Major: Computer Science (*B.S.*) Overall GPA: 3.70

Core Courses: Empirical Method in Natural Language Processing (95.5) / Mathematical Logic(95) / Discrete Mathematics (94) / JavaScript Web Programming (94) / Software Engineering (93) / Java Programming (92) / Electromagnetism (92) / Data structure and Algorithm (90.5) / Introduction to The Database (90) / Linear Algebra(89) / Probability Theory and Statistics (A)(89) / Compiler Design (89) / Numerical Methods(88)/Advanced Mathematics(87)/Operating System / Introduction to Database Systems / the C++ Programming Language / ...

School of Life Science, Peking University, Beijing, China

Sep 2015- July 2019

Major: Biological science (*B.S.*) Overall GPA: 3.61 Ranking: Top 20% in 100+ students

RESEARCH EXPERIENCES

Cross-Lingual and Mono-lingual Semantic Parsing to generate Discourse Relation Structure for Parallel Meaning Bank |

University of Edinburgh | Visiting Student

July 2018- Sep 2018

Advisor: Bonnie Webber, professor in Institute for Language, Cognition and Computation

- Implemented a model composed of a tree-LSTM encoder and a three-stage coarse-to-fine decoder with attention mechanism and copying mechanism to conduct semantic parsing
- Applied the model to generating Discourse Relation Structure Representations for Parallel Meaning Bank
- Leveraged Universal Dependency structure information and cross-lingual word embeddings to conduct experiments in Italian, German, and Dutch while training the model using English data.

English Elementary Discourse Units segmentation | Peking University | Research Assistant

Feb 2018 – May 2018

Advisor: Sujian Li, associate professor in Institute of Computational Linguistics, Peking University

- Used SVM, Logistic Regression and Random Forest along with some useful features including some specific constituency parsing tree features to conduct English EDU segmentation.
- Helped another researcher develop a Fast and Accurate Elementary Discourse Units segmenter using BiLSTM-CRF, self-attention and ELMo.

Cross-lingual Elementary Discourse Units segmentation | Peking University | Research Assistant

Sep 2017- Feb 2018

Advisor: Sujian Li, associate professor in Institute of Computational Linguistics, Peking University

- Applied an adversarial multi-task neural network to cross-lingual EDU segmentation
- Improved the performance of transfer learning and domain adaption in multilingual scenarios.
- Designed a map from language-specific POS tag set to Universal POS tag set, put forward some standard rules of Chinese EDU segmentation based on Rhetorical Structural Theory(RST) and annotated a corpus.

Discourse Relation Classification | Peking University | Research Assistant

Jul 2017- Aug 2017

Advisor: Sujian Li, associate professor in Institute of Computational Linguistics, Peking University

- Helped a researcher to design a Tree-LSTM and Tree-GRU network to solve the problem of implicit discourse relation classification
- Incorporated POS tag information to tree-structured neural network to improve the performance

PUBLICATIONS

Yizhong Wang, Sujian Li, Jingfeng Yang. 2018. Toward Fast and Accurate Neural Discourse Segmentation. In *2018 Empirical Methods in Natural Language Processing (EMNLP)*.

Yizhong Wang, Sujian Li, Jingfeng Yang, Xu Sun, Houfeng Wang. 2017. Tag-enhanced tree-structured neural networks for implicit discourse relation classification. In *The 8th International Joint Conference on Natural Language Processing (IJCNLP)*.

PRIPRINTS

Jingfeng Yang, Sujian Li. 2018. Chinese Discourse Segmentation Using Bilingual Discourse Commonality. Submitted to 2019 *NAACL-HLT arXiv:1809.01497*.

WORKING EXPERIENCES

Consecutive Question Generation | Microsoft Research Asia | SWE intern | Beijing

Dec 2018 – March 2019

SKILLS

Programming Languages: C/C++, python, Java, JavaScript/Jquery, html/css/xml, PHP, SQL

Machine Learning Toolkits: PyTorch, TensorFlow, Scipy, scikit-learn

Operating Systems: Linux (Preferred), Windows

Other tools: Git, Matlab, Jupyter

LEADERSHIP AND ACTIVITIES

“Mentor” Organization, Peking University | Administrator

Sep 2016 – June 2018

- Organize seminars every weekend and welcome parties for freshmen every year
- Invited some outstanding people to give lectures
- Help college freshmen adapt to college life

FELLOWSHIPS/AWARDS

- May 4th Scholarship, 2016-2017
- Kwang-Hua Scholarship, 2015-2016
- Merit Student of Peking University, 2015-2016, 2016-2017
- Silver medal in China Mathematics Olympiad (CMO), 2015