Jingfeng Yang

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EDUCATION

School of Electronics and computer Science, Peking University, Beijing, China   Sep 2016- present

Bachelor of Engineering in computer science   Overall GPA: 3.67/4.0

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) / Biochemistry (91) / Data structure and Algorithm (90.5) / Introduction to The Database (90) / Linear Algebra(89) / Probability Theory and Statistics (A)(89) / Compilation Techniques (89) /Numerical Analysis(88)/Advanced Mathematics(87)/……

School of Life Science, Peking University, Beijing, China   Sep 2015- present

Bachelor of Science in bioscience   Overall GPA: 3.62/4.0 Ranking: Top 20% in 100+ students

RESEARCH EXPERIENCES

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

The University of Edinburgh | Visiting Student   July 2018- present

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

➢ Implement a model composed of a tree-LSTM encoder and a three-stage decoder to conduct semantic parsing

➢ Apply the model to generate Discourse Relation Structure for Parallel Meaning Bank

➢ Leverage Universal Dependency structure information and cross-lingual word embeddings to conduct experiments in Italian, German and Dutch .

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 within different languages

➢ Designed a map from language-specific POS tag set to Universal POS tag set and put forward some standard rules of Chinese EDU segmentation based on Rhetorical Structural Theory(RST).

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 Ph.D. student 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 net work to improve the performance

Develop CasOT and calculate the probability of off-targeting in CRISPER-Cas9 | Peking University | Lab intern

Jul 2016- Aug 2016

Advisor: Ge Gao, associate professor in Center for Quantitative Biology, Peking University

➢ Improved an online software CasOT by designing a more friendly interactive interface, increase the speed of the arithmetic and introduce a scoring mechanism for certain off-target sequence

➢ Used Bayes formula and independence assumption of each base in scoring mechanism

➢ Put forward to using HMM model to calculate the probability of off-targeting in CRISPER-Cas9 system

PUBLICATIONS

Yizhong Wang, Sujian Li, Jingfeng Yang. 2018. Toward Fast and Accurate Neural Discourse Segmentation. Accepted by 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. arXiv preprint arXiv:1809.01497.

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 - Present

➢ Organize seminars every weekend and welcome parties for freshmen every year

➢ Invited some outstanding people to give lectures

➢ Offer help to college freshmen and help them to adapt to college life

FELLOWSHIPS/AWARDS

➢ May 4th Scholarship, 2016-2017

➢ Merit Student of Peking University, 2016-2017

➢ Kwang-Hua Scholarship, 2015-2016

➢ Merit Student of Peking University, 2015-2016

➢ Silver medal in China Mathematics Olympiad, 2015