Hai Ye

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Research Interests

- Machine Learning and Deep Learning.
- Natural Language Processing, e.g. Information Extraction, Sentiment Analysis, Language Generation.

Education

Beihang University (BUAA) **Beijing, China**
School of Computer Science and Engineering *Sep. 2013–July 2017*

- Bachelor of Computer Science and Technology
- Overall GPA: **3.7 / 4.0** Major GPA: **3.7 / 4.0** Ranking: **top 10%**
- 2017 Excellent Graduation Thesis Award (**top 15%**)

Publication

- **Hai Ye**, Wenhan Chao, Zhunchen Luo, Zhoujun Li. (2017). **Jointly Extracting Relations with Class Ties via Effective Deep Ranking.** *In proceedings of the 55th Annual Meeting of the Association for Computational Linguistics (ACL), July 30-August 4, 2017, Vancouver, Canada.* (Accepted as **Long Paper**) **[PDF]**
- **Hai Ye**, Zichao Yan, Zhunchen Luo, Wenhan Chao. (2017). **Dependency-tree Based Convolutional Stacked Neural Networks for Aspect Term Extraction.** *In proceedings of the Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD), May 23-26, 2017, Jeju, South Korea.* (Accepted as **Long Presentation Paper**, **accept rate:** 9.8%) **[PDF]**
- Chang Xing, **Hai Ye**, Tao Yu, Zhong Zhou. (2016). **Homogenous Color Transfer Using Texture Retrieval and Matching.** *Advances in Multimedia Information Processing - PCM 2016 - 17th Pacific-Rim Conference on Multimedia, Xi'an, China, September 15-16, 2016, Proceedings, Part II.* (Accepted) **[PDF]**
- **Hai Ye**, Yuanzhen Hao, Xiaoyuan Yang. (2015). **The General Formula of Higher Order Derivatives of Multiple Composite Functions.** *Published in Studies in College Mathematics, 18(5), 47-50.*

Research Experience

Department of Computing at PolyU (The Hong Kong Polytechnic University) **Hong Kong, China**
Research Assistant *Sep. 2017–Mar. 2018*

- *Advisor*: **Prof. Wenjie, Maggie, Li**
- Research Program on Neural Summarization

The Institute of Intelligent Information Processing at BUAA **Beijing, China**
Research Assistant *July 2016–Aug. 2017*

- *Advisor*: **Prof. Zhoujun Li & Wenhan Chao**
- Research Program on Information Extraction:
  Studied the problem of *Distantly Supervised Relation Extraction*, to exploit the connections between relations, a deep ranking model combined with CNN was proposed to make joint extraction of relations, in which three novel ranking loss function were introduced. **[ACL'2017]**
- Research Program on Sentiment Analysis:
  Studied the problem of *Aspect-based Sentiment Analysis*, to make use of dependency-tree information between aspect terms, a novel Dependency-tree Based Convolutional Stacked Neural Network was proposed, the model outperforms traditional CRF model and RNN model. **[PAKDD'2017]**

State Key Laboratory of Virtual Reality Technology and Systems at BUAA **Beijing, China**
Research Intern *Mar. 2016–June 2016*

- *Advisor*: **Prof. Zhong Zhou**
- Research Program on Image Processing:
  Studied the problem of *Image Color Transfer*, to narrow down the gap of color transferring between the fields with different image texture features, a unified color transfer system was proposed: firstly patches with similar texture features were matched, then the colors were transferred between the matched patches. **[PCM'2016]**

School of Mathematics and Systems Science at BUAA **Beijing, China**
Mathematics Research Interest Group for College Freshman *Mar. 2014–May 2014*

- *Advisor*: **Prof. Xiaoyuan Yang**
- Research on Challenging Mathematical Problems:
  Studied the mathematical problem of the *General Formula of Higher Order Derivatives of Multiple Composite Functions*, a specific formula and its mathematical justification were given out, and a paper was published **in Studies in College Mathematics**.

Research Service

EACL'2017: Second reviewer

Honors and Awards

2017: 2nd prize, The 27th Feng Ru Cup, Beihang University
2015, 2016: Subject Contest Scholarship, Science and Technology Contest Scholarship, Beihang University

2016: Honorable Mention, Interdisciplinary Contest in Modeling(ICM)
2014: 2nd Prize, The 6th Chinese Mathematics Competitions, Beijing Division
2014: Outstanding Scholarship, Beihang University

Technique skills

Deep Learning: Tensorflow, Theano
Program Language: Python, C/C++, Java, Matlab, LaTeX
Operating System: Mac OS, Windows