

# CHENGYU WANG

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## WORK EXPERIENCE

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### Algorithm Expert

*July 2020 – Current*

Machine Learning Platform of AI (PAI), Alibaba Cloud, **Alibaba Group**

#### Major Responsibility I: AI Platforms

- Major developer of open-source NLP toolkits named EasyTransfer (in Tensorflow) and EasyNLP (in PyTorch), supporting over 20 BUs in Alibaba Group and various customers/partners of Alibaba Cloud
  - Knowledge-enhanced pre-trained language models based on large-scale knowledge graphs and rich linguistic knowledge
  - Prompt-based few-shot learning for pre-trained language models
  - Cross-modality content understanding, such as CLIP models for vision and language modeling; ARoBERT for speech and language modeling
  - Cross-modality content generation, such as transformer-based text-to-image generation models
  - A variety of transfer learning/meta-learning algorithms for NLP tasks across different domains and tasks
- Major developer of a speech recognition toolkit named EasyASR (in Tensorflow)
- Major developer of the integration of the above AI toolkits to PAI products for cloud service, including PAI-DSW for model development, PAI-DLC for cloud-native training, PAI-EAS for online serving, and PAI-Designer for zero-code model training

#### Major Responsibility II: AI Applications

Major developer of several popular AI solutions built upon PAI products, including but not limited to the following:

- Fine-grained text tagging for e-commerce UGC analysis and understanding
- Learning and inference pipelines for text-to-image generation
- Cross-modality feature extraction for search and recommendations

## EDUCATION

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### Ph.D. in Software Engineering

*Sept. 2015 – June 2020*

Software Engineering Institute, **East China Normal University** (ECNU)

Supervisors: Prof. **Xiaofeng He** and Prof. **Aoying Zhou** Overall GPA: 90.29/100, Major GPA: 90.44/100

Ph.D. Thesis: Algorithmic Studies on Relation Extraction from Chinese Short Texts

Research interests: taxonomy induction, entity and relation extraction, knowledge graphs, lexical semantics, natural language understanding, etc.

Won **National Scholarship for PhD Students** three times (2016, 2017, 2019), **ECNU President Scholarship** (2019) and the honor of **Shanghai Outstanding Graduate** (2020)

### B.Eng. in Software Engineering

*Sept. 2011 – June 2015*

Software Engineering Institute, **East China Normal University** (ECNU)

Supervisor: Prof. **Xiaofeng He** Overall GPA: 3.77/4.0, Major GPA: 3.84/4.0

Bachelor Thesis: Regional Traffic Pattern Mining Based on Latent Semantics

Research interests: location-based service and knowledge graph construction.

Won **National Scholarship** three times (2012, 2013, 2014) and the honor of **Shanghai Outstanding Graduate** (2015)

## PUBLICATIONS

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(\* denotes equal contribution.)

[2022]

1. **Chengyu Wang**, Suyang Dai, Yipeng Wang, Fei Yang, Minghui Qiu, Kehan Chen, Wei Zhou, Jun Huang. *ARoBERT: An ASR Robust Pre-trained Language Model for Spoken Language Understanding*. IEEE/ACM Transactions on Audio, Speech, and Language Processing (**TASLP**) 30: 1207–1218 (2022)
2. **Chengyu Wang**, Minghui Qiu, Jun Huang. *Building Natural Language Processing Applications with EasyNLP*. Proceedings of the 31st ACM International Conference on Information and Knowledge Management (**CIKM 2022**) (Industry Day Speaker) (accepted)
3. **Chengyu Wang**, Minghui Qiu, Taolin Zhang, Tingting Liu, Lei Li, Jianing Wang, Ming Wang, Jun Huang, Wei Lin. *EasyNLP: A Comprehensive and Easy-to-use Toolkit for Natural Language Processing*. Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing (**EMNLP 2022**) (Demo Paper) (accepted)
4. Tingting Liu, **Chengyu Wang**, Cen Chen, Ming Gao, Aoying Zhou. *Understanding Long Programming Languages with Semantics-Aware Sparse Attention*. Proceedings of the 45th International ACM SIGIR Conference on Research and Development in Information Retrieval (**SIGIR 2022**), pages 2093–2098
5. Yiwu Yao\*, **Chengyu Wang\***, Jun Huang. *Quantized Winograd Acceleration for Conv1D Equipped ASR Models on Mobile Devices*. Proceedings of the 2022 IEEE International Conference on Acoustics, Speech, and Signal Processing (**ICASSP 2022**), pages 4804–4807
6. Taolin Zhang\*, **Chengyu Wang\***, Nan Hu, Minghui Qiu, Chengguang Tang, Xiaofeng He, Jun Huang. *DKPLM: Decomposable Knowledge-enhanced Pre-trained Language Model for Natural Language Understanding*. Proceedings of the 36th AAAI Conference on Artificial Intelligence (**AAAI 2022**), pages 11703–11711
7. Yan Fan, **Chengyu Wang**, Peng He, Yunhua Hu. *Building Multi-turn Query Interpreters for E-commercial Chatbots with Sparse-to-dense Attentive Modeling*. Proceedings of the 15th ACM Conference on Web Search and Data Mining (**WSDM 2022**), pages 1577–1580 (Demo Paper)
8. Runxin Xu, Fuli Luo, **Chengyu Wang**, Baobao Chang, Jun Huang, Songfang Huang, Fei Huang. *From Dense to Sparse: Contrastive Pruning for Better Pre-trained Language Model Compression*. Proceedings of the 36th AAAI Conference on Artificial Intelligence (**AAAI 2022**), pages 11547–11555
9. Lei Li, Dongxiang Zhang, **Chengyu Wang**, Cheqing Jin, Ming Gao, Aoying Zhou. *Enhancing Seq2seq Math Word Problem Solver with Entity Information and Math Knowledge*. Proceedings of the 23rd International Conference on Web Information Systems Engineering (**WISE 2022**) (accepted)
10. Dongyang Li, Taolin Zhang, Nan Hu, **Chengyu Wang**, Xiaofeng He. *HiCLRE: A Hierarchical Contrastive Learning Framework for Distantly Supervised Relation Extraction*. Findings of the Association for Computational Linguistics: ACL 2022 (**ACL (Findings) 2022**), pages 2567–2578

[2021]

1. **Chengyu Wang**, Xiaofeng He, Aoying Zhou. *Open Relation Extraction for Chinese Noun Phrases*. IEEE Transactions on Knowledge and Data Engineering (**TKDE**) 33(6): 2693–2708 (2021)
2. **Chengyu Wang**, Haojie Pan, Minghui Qiu, Jun Huang, Fei Yang, Yin Zhang. *Meta Distant Transfer Learning for Pre-trained Language Models*. Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing (**EMNLP 2021**), pages 9742–9752
3. **Chengyu Wang\***, Jianing Wang\*, Minghui Qiu, Jun Huang, Ming Gao. *TransPrompt: Towards an Automatic Transferable Prompting Framework for Few-shot Text Classification*. Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing (**EMNLP 2021**), pages 2792–2802

4. **Chengyu Wang\***, Haojie Pan\*, Yuan Liu, Kehan Chen, Minghui Qiu, Wei Zhou, Jun Huang, Haiqing Chen, Wei Lin, Deng Cai. *MeLL: Large-scale Extensible User Intent Classification for Dialogue Systems with Meta Lifelong Learning*. Proceedings of the 27th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD** 2021), pages 3649–3659
5. **Chengyu Wang**, Minghui Qiu, Jun Huang, Xiaofeng He. *KEML: A Knowledge-Enriched Meta-Learning Framework for Lexical Relation Classification*. Proceedings of the 35th AAAI Conference on Artificial Intelligence (**AAAI** 2021), pages 13924–13932
6. **Chengyu Wang**, Mengli Cheng, Xu Hu, Jun Huang. *EasyASR: A Distributed Machine Learning Platform for End-to-end Automatic Speech Recognition*. Proceedings of the 35th AAAI Conference on Artificial Intelligence (**AAAI** 2021), pages 16111–16113 (Demo Paper)
7. Mengli Cheng\*, **Chengyu Wang\***, Jun Huang, Xiaobo Wang. *Weakly Supervised Construction of ASR Systems from Massive Video Data*. Proceedings of the 22nd Annual Conference of the International Speech Communication Association (**Interspeech** 2021), pages 4533–4537
8. Haojie Pan\*, **Chengyu Wang\***, Minghui Qiu, Yichang Zhang, Yaliang Li, Jun Huang. *Meta-KD: A Meta Knowledge Distillation Framework for Language Model Compression across Domains*. Proceedings of the Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (**ACL-IJCNLP** 2021), pages 3026–3036
9. Taolin Zhang\*, **Chengyu Wang\***, Minghui Qiu, Bite Yang, Zerui Cai, Xiaofeng He, Jun Huang. *Knowledge-Empowered Representation Learning for Chinese Medical Reading Comprehension: Task, Model and Resources*. Findings of the Association for Computational Linguistics: ACL-IJCNLP 2021 (**ACL-IJCNLP** (Findings) 2021), pages 2237–2249
10. Ziyun Xu, **Chengyu Wang**, Peng Li, Yang Li, Ming Wang, Boyu Hou, Minghui Qiu, Chengguang Tang, Jun Huang. *When Few-shot Learning Meets Large-scale Knowledge-enhanced Pre-training: Alibaba at Few-CLUE*. Proceedings of the 10th CCF International Conference on Natural Language Processing and Chinese Computing (**NLPCC** 2021), pages 422–433, (First Place in NLPCC 2021 Shared Task 2: FewCLUE)
11. Cen Chen, **Chengyu Wang**, Minghui Qiu, Dehong Gao, Linbo Jin, Li Wang. *Cross-domain Knowledge Distillation for Retrieval-based Question Answering Systems*. Proceedings of the Web Conference 2021 (**WWW** 2021), pages 2613–2623
12. Zhi Li, Yuchen Zhai, **Chengyu Wang**, Minghui Qiu, Kailiang Li, Yin Zhang. *UnCLE: Leveraging Semantic Similarity to Compress Word Embeddings*. Findings of the Association for Computational Linguistics: EMNLP 2021 (**EMNLP** (Findings) 2021), pages 1815–1828
13. Minghui Qiu, Peng Li\*, **Chengyu Wang\***, Haojie Pan\*, Ang Wang, Xianyan Jia, Le Jiang, Yaliang Li, Jun Huang, Jun Yang, Lin Wang, Deng Cai, Wei Lin. *EasyTransfer: A Simple and Scalable Deep Transfer Learning Platform for NLP Applications*. Proceedings of the 30th ACM International Conference on Information and Knowledge Management (**CIKM** 2021), pages 4075–4084
14. Taolin Zhang, Zerui Cai, **Chengyu Wang**, Peng Li, Yang Li, Minghui Qiu, Chengguang Tang, Xiaofeng He, Jun Huang. *HORNET: Enriching Pre-trained Language Representations with Heterogeneous Knowledge Sources*. Proceedings of the 30th ACM International Conference on Information and Knowledge Management (**CIKM** 2021), pages 2608–2617
15. Haojie Pan, Cen Chen, **Chengyu Wang**, Minghui Qiu, Liu Yang, Feng Ji, Jun Huang, Haiqing Chen. *Learning to Expand: Reinforced Response Expansion for Information-seeking Conversations*. Proceedings of the 30th ACM International Conference on Information and Knowledge Management (**CIKM** 2021), pages 4055–4064
16. Taolin Zhang, Zerui Cai, **Chengyu Wang**, Minghui Qiu, Bite Yang, Xiaofeng He. *SMedBERT: A Knowledge-Enhanced Pre-trained Language Model with Structured Semantics for Medical Text Mining*. Proceedings of the Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the

17. Zerui Cai, Taolin Zhang, **Chengyu Wang**, Xiaofeng He. *EMBERT: A Pre-trained Language Model for Chinese Medical Text Mining*. Proceedings of the 5th APWeb-WAIM Joint International Conference on Web and Big Data (**APWeb-WAIM 2021**), pages 242–257
18. Cen Chen, Xinjing Huang, Feng Ji, **Chengyu Wang**, Minghui Qiu, Jun Huang, Yin Zhang. *CAT-BERT: A Context-Aware Transferable BERT Model for Multi-Turn Machine Reading Comprehension*. Proceedings of the 26th International Conference on Database Systems for Advanced Applications (**DASFAA 2021**), pages 152–167

[2020]

1. **Chengyu Wang**, Xiaofeng He, Aoying Zhou. *HEEL: Exploratory Entity Linking for Heterogeneous Information Networks*. Knowledge and Information Systems (**KAIS**) 62(2): 485–506 (2020)
2. **Chengyu Wang**, Minghui Qiu, Jun Huang, Xiaofeng He. *Meta Fine-tuning Neural Language Models for Multi-domain Text Mining*. Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (**EMNLP 2020**), pages 3094–3104
3. **Chengyu Wang**, Xiaofeng He. *BiRRE: Learning Bidirectional Residual Relation Embeddings for Supervised Hypernymy Detection*. Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (**ACL 2020**), pages 3630–3640
4. **Chengyu Wang**, Xiaofeng He, Xuegong Gong, Aoying Zhou. *Word Embedding Projection Models for Hypernymy Relation Prediction*. Chinese Journal of Computers (**CJC**) 43(5):868–883 (2020) (in Chinese with English abstracts)
5. Hui Cai, **Chengyu Wang**, Xiaofeng He. *Debiasing Learning to Rank Models with Generative Adversarial Networks*. Proceedings of the 4th APWeb-WAIM Joint Conference on Web and Big Data (**APWeb-WAIM 2020**), pages 45–60

[2019]

1. **Chengyu Wang**, Yan Fan, Xiaofeng He, Aoying Zhou. *Decoding Chinese User Generated Categories for Fine-grained Knowledge Harvesting*. IEEE Transactions on Knowledge and Data Engineering (**TKDE**) 31(8): 1491–1505 (2019)
2. **Chengyu Wang**, Yan Fan, Xiaofeng He, Aoying Zhou. *Predicting Hypernym-hyponym Relations for Chinese Taxonomy Learning*. Knowledge and Information Systems (**KAIS**) 58(3): 585–610 (2019)
3. **Chengyu Wang**, Yan Fan, Xiaofeng He, Hongyuan Zha, Aoying Zhou. *Idiomatcity Prediction of Chinese Noun Compounds and Its Applications*. IEEE Access (**IEEE ACCESS**) 7: 142866–142878 (2019)
4. **Chengyu Wang**, Xiaofeng He, Aoying Zhou. *SphereRE: Distinguishing Lexical Relations with Hyperspherical Relation Embeddings*. Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics (**ACL 2019**), pages 1727–1737
5. **Chengyu Wang**, Yan Fan, Xiaofeng He, Aoying Zhou. *A Family of Fuzzy Orthogonal Projection Models for Monolingual and Cross-lingual Hypernymy Prediction*. Proceedings of the 2019 World Wide Web Conference (**WWW 2019**), pages 1965–1976
6. **Chengyu Wang**, Xiaofeng He, Aoying Zhou. *Improving Hypernymy Prediction via Taxonomy Enhanced Adversarial Learning*. Proceedings of the 33rd AAAI Conference on Artificial Intelligence (**AAAI 2019**), pages 7128–7135
7. Yan Fan, **Chengyu Wang**, Boxing Chen, Zhongkai Hu, Xiaofeng He. *SPMM: A Soft Piecewise Mapping Model for Bilingual Lexicon Induction*. Proceedings of the 19th SIAM International Conference on Data Mining (**SDM 2019**), pages 244–252

[2018]

1. **Chengyu Wang**, Xiaofeng He, Aoying Zhou. *Event Phase Oriented News Summarization*. World Wide Web - Internet and Web Information Systems (**WWWJ**) 21(4): 1069–1092 (2018)
2. **Chengyu Wang**, Guomin Zhou, Xiaofeng He, Aoying Zhou. *NERank+: A Graph-based Approach for Entity Ranking in Document Collections*. Frontiers of Computer Science (**FCS**) 12(3): 504–517 (2018)
3. Jihong Yan, **Chengyu Wang**, Wenliang Cheng, Ming Gao, Aoying Zhou. *A Retrospective of Knowledge Graphs*. Frontiers of Computer Science (**FCS**) 12(1): 55–74 (2018)
4. Yan Fan, **Chengyu Wang**, Xiaofeng He. *Exploratory Neural Relation Classification for Domain Knowledge Acquisition*. Proceedings of the 27th International Conference on Computational Linguistics (**COLING** 2018), pages 265–2276
5. Guohai Xu, **Chengyu Wang**, Xiaofeng He. *Improving Clinical Named Entity Recognition with Global Neural Attention*. Proceedings of the 2nd APWeb-WAIM Joint Conference on Web and Big Data (**APWeb-WAIM** 2018), pages 264–279

[2017]

1. **Chengyu Wang**, Yan Fan, Xiaofeng He, Aoying Zhou. *Learning Fine-grained Relations from Chinese User Generated Categories*. Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing (**EMNLP** 2017), pages 2577–2587
2. **Chengyu Wang**, Xiaofeng He, Aoying Zhou. *A Short Survey on Taxonomy Learning from Text Corpora: Issues, Resources and Recent Advances*. Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing (**EMNLP** 2017), pages 1190–1203
3. Yan Fan, **Chengyu Wang**, Guomin Zhou, Xiaofeng He. *DKGBuilder: An Architecture for Building a Domain Knowledge Graph from Scratch*. Proceedings of the 22nd International Conference on Database Systems for Advanced Applications (**DASFAA** 2017), pages 663–667 (Demo Paper)
4. **Chengyu Wang**, Junchi Yan, Aoying Zhou, Xiaofeng He. *Transductive Non-linear Learning for Chinese Hypernym Prediction*. Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics (**ACL** 2017), pages 1394–1404
5. Lu Wang, **Chengyu Wang**, Keqiang Wang, Xiaofeng He. *BiUCB: A Contextual Bandit Algorithm for Cold-start and Diversified Recommendation*. Proceedings of the 8th IEEE International Conference on Big Knowledge (**ICBK** 2017), pages 248–253
6. Ruolan Yong, **Chengyu Wang**, Xiaofeng He. *A Transfer Learning based Boosting Model for Emotion Analysis*. Proceedings of the 8th IEEE International Conference on Big Knowledge (**ICBK** 2017), pages 264–269
7. Kun Wang, Guohai Xu, **Chengyu Wang**, Xiaofeng He. *A Hybrid Abnormal Advertising Traffic Detection Method*. Proceedings of the 8th IEEE International Conference on Big Knowledge (**ICBK** 2017), pages 236–241

[2016]

1. **Chengyu Wang**, Xiaofeng He. *Chinese Hypernym-hyponym Extraction from User Generated Categories*. Proceedings of the 26th International Conference on Computational Linguistics (**COLING** 2016), pages 1350–1361
2. **Chengyu Wang**, Rong Zhang, Xiaofeng He, Aoying Zhou. *Error Link Detection and Correction in Wikipedia*. Proceedings of the 25th ACM International Conference on Information and Knowledge Management (**CIKM** 2016), pages 307–316
3. **Chengyu Wang**, Rong Zhang, Xiaofeng He, Guomin Zhou, Aoying Zhou. *Event Phase Extraction and Summarization*. Proceedings of the 17th International Conference on Web Information Systems Engineering

(**WISE** 2016), pages 473–488 (Best Paper Nominee)

4. **Chengyu Wang**, Rong Zhang, Xiaofeng He, Guomin Zhou, Aoying Zhou. *NERank: Bringing Order to Named Entities from Texts*. Proceedings of the 18th Asia Pacific Web Conference (**APWeb** 2016), pages 15–27
5. **Chengyu Wang**, Rong Zhang, Xiaofeng He, Aoying Zhou. *NERank: Ranking Named Entities in Document Collections*. Proceedings of the 25th World Wide Web Conference Companion (**WWW** 2016), pages 123–124 (Poster Paper)
6. Jihong Yan, Wenliang Cheng, **Chengyu Wang**, Jun Liu, Ming Gao, Aoying Zhou. *Optimizing Word Set Coverage for Multi-event Summarization*. Journal of Combinatorial Optimization (**JCO**) 30(4):996–1015 (2016)
7. Chi Zhang, Yanhua Wang, **Chengyu Wang**, Wenliang Cheng, Xiaofeng He. *SNE extractor: A Prototype for Extracting Semantic Networks from Web Documents*. Proceedings of the 17th International Conference on Web-Age Information Management (**WAIM** 2016), pages 527–530 (Demo Paper)
8. Jinyang Li, Yanhua Wang, Yan Fan, **Chengyu Wang**, Rong Zhang, Xiaofeng He. *Chinese Taxonomy Construction and Search System*. Journal of Computer Applications (**JCA**) 36(S1):207–209 (2016) (in Chinese with English abstracts)

#### [2015 and Before]

1. **Chengyu Wang**, Bing Xiao, Xiang Li, Jiawen Zhu, Xiaofeng He, Rong Zhang. *Predicting Users' Age Range in Micro-blog Network*. Proceedings of the 14th International Conference on Web Information Systems Engineering (**WISE** 2013), pages 516–521 (WISE 2013 Challenge Runner-up Award)
2. **Chengyu Wang**, Ming Gao, Xiaofeng He and Rong Zhang. *Challenges in Chinese Knowledge Graph Construction*. Proceedings of the 6th International Workshop on Data Engineering meets the Semantic Web (**DESWeb** 2015), pages 59–61, in conjunction with **ICDE** 2015
3. Jinyang Li, **Chengyu Wang**, Xiaofeng He, Rong Zhang, Ming Gao. *User Generated Content Oriented Chinese Taxonomy Construction*. Proceedings of the 17th Asia Pacific Web Conference (**APWeb** 2015), pages 623–634
4. Wenliang Cheng, **Chengyu Wang**, Bing Xiao, Weining Qian, Aoying Zhou. *On Statistical Characteristics of Real-life Knowledge Graphs*. Proceedings of the 6th International Workshop on Big data benchmarks, Performance, Optimization and Emerging hardware (**BPOE** 2015), pages 37–49, in conjunction with **VLDB** 2015
5. Leyi Song, **Chengyu Wang**, Xiaoyi Duan, Bing Xiao, Xiao Liu, Rong Zhang, Xiaofeng He, Xueqing Gong. *TaxiHailer: A Situation-specific Taxi Pick-up Points Recommendation System*. Proceedings of the 19th International Conference on Database Systems for Advanced Applications (**DASFAA** 2014), pages 523–526 (Demo Paper)
6. Fan Xia, Qunyan Zhang, **Chengyu Wang**, Weining Qian, Aoying Zhou. *On the Rise and Fall of Sina Weibo: Analysis Based on a Fixed User Group*. Proceedings of the 1st International Workshop on Scalable Social Event Processing and Management (**SSEPM** 2015), pages 224–231, in conjunction with **ICDE** 2015
7. Yonghao Su, Chi Zhang, Jinyang Li, **Chengyu Wang**, Weining Qian, Aoying Zhou. *Cross-lingual Entity Query from Large-scale Knowledge Graphs*. Proceedings of the 2nd International Workshop on Web Data Mining and Applications (**WDMA** 2015), pages 139–150, in conjunction with **APWeb** 2015

## SELECTED ACHIEVEMENTS

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Honors and Grants:

April 2022 Innovation pioneer, Alibaba Group  
 Sept. 2020 Excellent Dissertation Award of the Faculty of Information, ECNU  
 May 2020 **Shanghai Outstanding Graduate**  
 Aug. 2019 ACL 2019 Student Volunteer Program  
 Jan. 2019 AAAI 2019 Student Volunteer and Scholarship Program  
 Oct. 2018 **Microsoft Research Asia Fellowship Nominee**  
 (Top 20 out of all Ph.D. candidate applicants in Asia-Pacific regions)  
 Dec. 2016 Recipient, ECNU Outstanding Doctoral Dissertation Cultivation Plan of Action  
 (Only 2 among all Ph.D. candidates in School of Computer Science and Software Engineering, ECNU)  
 Dec. 2016 COLING 2016 Student Support Program  
 Nov. 2016 WISE 2016 Best Paper Nominee  
 Oct. 2016 SIGIR Student Travel Grant (CIKM 2016)  
 April 2016 Google Student Travel Grant (WWW 2016)  
 May 2015 **Shanghai Outstanding Graduate**

#### Scholarships:

Dec. 2019 **ECNU President Scholarship** (Top-10 graduate students in ECNU)  
 Dec. 2019 **National Scholarship for PhD Students**  
 Dec. 2018 Student Science and Technology Excellence Scholarship  
 (Top-1 in School of Computer Science and Software Engineering, ECNU)  
 Dec. 2017 **National Scholarship for PhD Students**  
 Dec. 2016 **National Scholarship for PhD Students**  
 Dec. 2015 ECNU Graduate Freshman Scholarship  
 Dec. 2014 **National Scholarship**  
 Dec. 2013 **National Scholarship**  
 Dec. 2012 **National Scholarship**

#### Competition Awards:

July 2021 First Place in NLPCC 2021 Shared Task 2: FewCLUE  
 May 2018 Third Prize in National English Contest for College Students (Level A)  
 June 2014 Special Prize in Mathematical Modeling Contest for College Students  
 May 2014 **Special Prize in National English Contest for College Students (Level C)**  
 (Top 0.1% among all participants)  
 Dec. 2013 **Second Prize in First National Big Data Technology Innovation Contest**  
 (Among 3 teams that won the Second Prize out of 660 teams worldwide)  
 Oct. 2013 WISE 2013 Challenge Runner-up Award  
 May 2013 Second Prize in National English Contest for College Students (Level C)  
 May 2012 Third Prize in National English Contest for College Students (Level C)

## ACADEMIC ACTIVITIES

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#### Regular Conference Program Committee (PC) Membership:

- Annual Meeting of the Association for Computational Linguistics (ACL)
- Conference on Empirical Methods in Natural Language Processing (EMNLP)
- Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)
- International Conference on Computational Linguistics (COLING)
- Conference of the European Chapter of the Association for Computational Linguistics (EACL)
- AAAI Conference on Artificial Intelligence (AAAI)
- International Joint Conference on Artificial Intelligence (IJCAI)

Invited Reviewer for Journals:

- IEEE/ACM Transactions on Audio, Speech and Language Processing (TASLP)
- ACM Transactions on Asian and Low-Resource Language Information Processing (TALLIP)
- IEEE Transactions on Neural Networks and Learning Systems (TNNLS)
- IEEE Transactions on Computational Social Systems (TCSS)
- IEEE Transactions on Artificial Intelligence (TAI)
- Natural Language Engineering (NLE)
- IEEE Access (ACCESS)
- Expert Systems
- Neurocomputing

## SKILLS AND LANGUAGES

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Programming	Python, SQL, $\text{\LaTeX}$
Platforms & Tools	TensorFlow, PyTorch, Keras, Hadoop, Linux
English	<b>Shanghai Advanced English Interpretation</b> (Dec. 2013) CET-6: 636/710   CET-4: 663/710
Japanese	New Japanese Language Proficiency Test (JLPT): N3 Level (July 2013)

## REFERENCES

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- Xiaofeng He, Professor  
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- Aoying Zhou, Professor  
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Vice President, East China Normal University

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