

# Chengyu WANG

## PERSONAL DATA

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## EDUCATION

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SEPT 2015-Now Ph.D. in Software Engineering (Data Science and Engineering)  
School of Computer Science and Software Engineering,  
**East China Normal University**  
Supervisors: Prof. **Xiaofeng He** and Prof. **Aoying Zhou**  
Overall GPA: 90.29/100 Major GPA: 90.44/100  
Won **National Scholarship for PhD Students** twice (2016, 2017)

SEPT 2011-JULY 2015 B.Eng. in Software Engineering  
Software Engineering Institute, **East China Normal University**  
Overall GPA: 3.77/4.0 Major GPA: 3.84/4.0  
Thesis: *Regional Traffic Pattern Mining Based on Latent Semantics*  
Won **National Scholarship** three times (2012, 2013, 2014) and  
**Shanghai Outstanding Graduate** (2015)

## RESEARCH TOPICS

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2014-Now **Knowledge extraction and understanding**  
Taxonomy learning: hypernymy relation extraction, taxonomy construction  
Relation extraction: short-text based relation extraction  
Language understanding: semantic language understanding, idiomaticity analysis  
Knowledge retrieval: entity linking, Web data summarization

2013-2014 **Location-based service**  
Distributed data processing: large-scale spatio-temporal data analysis  
Trajectory analysis: traffic trajectory analysis mining, traffic condition prediction  
Location-based recommender system: location recommendation

## PUBLICATIONS

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Submissions under Review:

1. **Chengyu Wang**, Xiaofeng He, Aoying Zhou. *HEEL: Exploratory Entity Linking for Heterogeneous Information Networks*. submitted to **Knowledge and Information Systems**
2. **Chengyu Wang**, Yan Fan, Xiaofeng He, Aoying Zhou. *Cross-lingual Few-shot Hypernymy Prediction for Low-resourced Languages: A Multi-Wahba Projection Approach*. submitted to **AAAI** 2019
3. **Chengyu Wang**, Xiaofeng He, Aoying Zhou. *Improving Hypernymy Prediction via Taxonomy Enhanced Adversarial Learning*. submitted to **AAAI** 2019

4. **Chengyu Wang**, Xiaofeng He, Aoying Zhou. *Revealing the Hidden Relations: Open-domain Commonsense Relation Extraction from Chinese Noun Phrases*. submitted to AAAI 2019
5. **Chengyu Wang**, Xiaofeng He, Hongyuan Zha, Aoying Zhou. *Relational and Morphological Representation Learning for Noun Compound Idiomaticity Prediction and Its Applications*. submitted to AAAI 2019

Refereed Journal Articles:

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** (in press)
2. **Chengyu Wang**, Yan Fan, Xiaofeng He, Aoying Zhou. *Predicting Hypernym-Hyponym Relations for Chinese Taxonomy Learning*. **Knowledge and Information Systems** (in press)
3. **Chengyu Wang**, Xiaofeng He, Aoying Zhou. *Event Phase Oriented News Summarization*. **World Wide Web** 21(4): 1069–1092 (2018)
4. **Chengyu Wang**, Guomin Zhou, Xiaofeng He, Aoying Zhou. *NERank+: A Graph-based Approach for Entity Ranking in Document Collections*. **Frontiers of Computer Science** 12(3): 504–517 (2018)
5. Jihong Yan, **Chengyu Wang**, Wenliang Cheng, Ming Gao, Aoying Zhou. *A Retrospective of Knowledge Graphs*. **Frontiers of Computer Science** 12(1): 55–74 (2018)
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** 30(4):996–1015 (2015)

Refereed Conference Papers:

1. **Chengyu Wang**, Yan Fan, Xiaofeng He, Aoying Zhou. *Learning Fine-grained Relations from Chinese User Generated Categories*. **EMNLP 2017**: 2577–2587
2. **Chengyu Wang**, Xiaofeng He, Aoying Zhou. *A Short Survey on Taxonomy Learning from Text Corpora: Issues, Resources and Recent Advances*. **EMNLP 2017**: 1190–1203
3. **Chengyu Wang**, Junchi Yan, Aoying Zhou, Xiaofeng He. *Transductive Non-linear Learning for Chinese Hypernym Prediction*. **ACL 2017**: 1394–1404
4. **Chengyu Wang**, Xiaofeng He. *Chinese Hypernym-Hyponym Extraction from User Generated Categories*. **COLING 2016**: 1350–1361
5. **Chengyu Wang**, Rong Zhang, Xiaofeng He, Aoying Zhou. *Error Link Detection and Correction in Wikipedia*. **CIKM 2016**: 307–316
6. **Chengyu Wang**, Rong Zhang, Xiaofeng He, Guomin Zhou, Aoying Zhou. *Event Phase Extraction and Summarization*. **WISE 2016**: 473–488 (Best Paper Nominee)
7. **Chengyu Wang**, Rong Zhang, Xiaofeng He, Guomin Zhou, Aoying Zhou. *NERank: Bringing Order to Named Entities from Texts*. **APWeb 2016**: 15–27
8. **Chengyu Wang**, Rong Zhang, Xiaofeng He, Aoying Zhou. *NERank: Ranking Named Entities in Document Collections*. **WWW 2016**: 123–124
9. **Chengyu Wang**, Bing Xiao, Xiang Li, Jiawen Zhu, Xiaofeng He, Rong Zhang. *Predicting Users' Age Range in Micro-blog Network*. **WISE 2013**: 516–521 (WISE 2013 Challenge Runner-up Award)
10. Yan Fan, **Chengyu Wang**, Xiaofeng He. *Exploratory Neural Relation Classification for Domain Knowledge Acquisition*. **COLING 2018**: 265–276
11. Guohai Xu, **Chengyu Wang**, Xiaofeng He. *Improving Clinical Named Entity Recognition with Global Neural Attention*. **APWeb-WAIM 2018**: 264–279

12. Lu Wang, **Chengyu Wang**, Keqiang Wang, Xiaofeng He. *BiUCB: A Contextual Bandit Algorithm for Cold-Start and Diversified Recommendation*. **ICBK** 2017: 248-253
13. Ruolan Yong, **Chengyu Wang**, Xiaofeng He. *A Transfer Learning based Boosting Model for Emotion Analysis*. **ICBK** 2017: 264-269
14. Jinyang Li, **Chengyu Wang**, Xiaofeng He, Rong Zhang, Ming Gao. *User Generated Content Oriented Chinese Taxonomy Construction*. **APWeb** 2015: 623-634
15. Kun Wang, Guohai Xu, **Chengyu Wang**, Xiaofeng He. *A Hybrid Abnormal Advertising Traffic Detection Method*. **ICBK** 2017: 236-241

#### Refereed Workshop Papers:

1. **Chengyu Wang**, Ming Gao, Xiaofeng He and Rong Zhang. *Challenges in Chinese Knowledge Graph Construction*. **DESWeb@ICDE** 2015: 59-61
2. Wenliang Cheng, **Chengyu Wang**, Bing Xiao, Weining Qian, Aoying Zhou. *On Statistical Characteristics of Real-life Knowledge Graphs*. **BPOE@VLDB** 2015: 37-49
3. 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*. **SSEPM@ICDE** 2015: 224-231
4. Yonghao Su, Chi Zhang, Jinyang Li, **Chengyu Wang**, Weining Qian, Aoying Zhou. *Cross-Lingual Entity Query from Large-Scale Knowledge Graphs*. **WDMA@APWeb** 2015: 139-150

#### Refereed Software Demonstrations:

1. Yan Fan, **Chengyu Wang**, Guomin Zhou, Xiaofeng He. *DKGBuilder: An Architecture for Building a Domain Knowledge Graph from Scratch*. **DASFAA** 2017: 663-667
2. 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*. **DASFAA** 2014: 523-526
3. Chi Zhang, Yanhua Wang, **Chengyu Wang**, Wenliang Cheng, Xiaofeng He. *SNExtractor: A Prototype for Extracting Semantic Networks from Web Documents*. **WAIM** 2016: 527-530

#### Papers in Chinese with English Abstract:

1. Jinyang Li, Yanhua Wang, Yan Fan, **Chengyu Wang**, Rong Zhang, Xiaofeng He. *Chinese Taxonomy Construction and Search System*. **Journal of Computer Applications** 36(S1):207-209 (2016)

#### Thesis (in Chinese with English Abstract):

1. **Chengyu Wang**. *Regional Traffic Pattern Mining Based on Latent Semantics*. **Bachelor of Engineering Thesis** (Supervisor: Prof. Xiaofeng He)

## SKILLS AND QUALIFICATIONS

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PROGRAMMING	Java, Python, C++, SQL, $\text{\LaTeX}$
PLATFORMS & Tools	Hadoop, Keras, TensorFlow, Mahout, Lucene, Weka
QUALIFICATIONS	EMC Academic Associate, Cloud Infrastructure and Services EMC Academic Associate, Information Storage and Management

## LANGUAGE PROFICIENCY

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CHINESE	Mandarin (Native Speaker), Wu (Dialect)
ENGLISH	Good Command of Reading, Writing, Translation and Interpretation <b>Shanghai Advanced English Interpretation</b> (DEC 2013) CET-6: 636/710 CET-4: 663/710
JAPANESE	Intermediate Level with Basic Communication Skills New Japanese Language Proficiency Test (JLPT): N3 Level

## SELECTED AWARDS AND SCHOLARSHIPS

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MAY 2018	Third Prize in National English Contest for College Students (Level A)
DEC 2017	<b>National Scholarship for PhD Students</b>
DEC 2016	Recipient, ECNU Outstanding Doctoral Dissertation Cultivation Plan of Action
DEC 2016	<b>National Scholarship for PhD Students</b>
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)
DEC 2015	ECNU Graduate Freshman Scholarship
MAY 2015	<b>Shanghai Outstanding Graduate</b>
DEC 2014	<b>National Scholarship</b>
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	<b>National Scholarship</b>
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)
DEC 2012	<b>National Scholarship</b>
OCT 2013	WISE 2013 Challenge Runner-up Award (Ranked 2 out of 12 submissions)

## ACADEMIC ACTIVITIES

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### Conference Presentation:

- 2016 WWW 2016 (Montréal, Canada), CIKM 2016 (Indianapolis, USA), COLING 2016 (Osaka, Japan), APWeb 2016 (Suzhou, China), WISE 2016 (Shanghai, China)
- 2015 DESWeb@ICDE 2015 (Seoul, South Korea)
- 2013 WISE 2013 (Nanjing, China)

### Teaching Experience:

- 2016 TA, Database Systems and Applications (Spring Semester)
- 2015 TA, Web System Development (Autumn Semester)

### Academic Services:

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| Secondary Conference Review | NDBC 2015, APWeb 2016, ICDM 2017, CIKM 2017, KDD 2017, COLING 2018, COLING 2018 Mentoring Program, KDD 2018, ICDM 2018, ICBK 2018 |
| Journal Review              | IEEE Access   |

## REFERENCES

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- Aoying Zhou, Professor  
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