

# Bowei Zhang

☎ (+86) 18101389470    ✉ bw\_zhang@pku.edu.cn  
in linkedin.com/in/imbowei  
📍 No. 128, Zhongguancun North Street, Haidian District, Beijing  
📄 Zip Code : 100080    📄 Online Resume

## Algorithm Engineer ( NLP | ML )

### 🎓 Education

2017.09 – 2020.06	<b>Master</b>	Data Science, Natural Language Processing, <b>Ranking</b> : 6/67 <i>Language Computing &amp; Web Mining Group, Institute of Computer Science and Technology, Peking University</i> <i>The MOE Key Laboratory of Computational Linguistics, Peking University</i> <i>Center for Data Science, Peking University</i>	<b>Peking University</b>
2013.09 – 2017.06	<b>Bachelor</b>	Intelligence Science and Technology GPA : 92.11/100   <b>Ranking</b> : 3/59	<b>Central South University</b>

### 🔗 Projects & Experiences

2018.10 2018.08	<b>Semi-automatically Extending Mandarin VerbNet Annotations</b>	<b>Python</b>	
	<ul style="list-style-type: none"><li>➢ <i>Semi-automatic Labeling</i> : Applying automatic semantic role labeling to improve annotation efficiency and accuracy for Mandarin VerbNet.</li><li>➢ <i>Semantic Role Labeling</i> : Automatic annotation method for semantic roles based on sequence labeling.</li><li>➢ <i>Self-Attention</i> : Self-attention alleviates the loss of semantic expression in long sentences.</li></ul> <div><div>Semantic Role Labeling</div><div>Semi-automatic Labeling</div><div>Self-Attention</div></div>		
2018.07 2018.05	<b>Shared Task : Text Traceability Technology Evaluation (SMP2018-ETST)</b>	<b>Ranking First</b>	<b>Python</b>
	<ul style="list-style-type: none"><li>➢ <i>Paraphrase Detection</i> : Designed a new paraphrase detection algorithm to determine whether a sentence is adapted from another sentence.</li><li>➢ <i>Inverted Index</i> : Pre-screening candidate sentence pairs by establishing an inverted index by weighted tf-idf.</li><li>➢ <i>Ensemble Learning</i> : Improving the accuracy of paraphrase detection with ensemble learning.</li></ul> <div><div>Paraphrase Detection</div><div>Language Model</div><div>Unsupervised Learning</div><div>Inverted Index</div></div>		
2018.02 2017.10	<b>Leveraging Paraphrases to Enhance Semantic Dependency Parsing</b>	<b>Python</b>	
	<ul style="list-style-type: none"><li>➢ <i>Paraphrase Extraction</i> : Designed a new paraphrase extraction algorithm and building PKU Paraphrase Bank, a Chinese paraphrase corpus consisting of over 290,000 sentence pairs.</li><li>➢ <i>Semantic Consistency</i> : Exploring the implicit semantic consistency of paraphrase sentence pairs.</li><li>➢ <i>Semi-supervised Learning</i> : Extending the training data set using a semi-supervised learning method; improved semantic parsing accuracy is obtained.</li></ul> <div><div>Paraphrase Extraction</div><div>Semantic Consistency</div><div>Semi-supervised Learning</div></div>		
2017.05 2017.02	<b>Anomaly Detection Tool Based On Extended Latent Dirichlet Allocation (LDA)</b>	<b>Java/Js/SQL</b>	
	<ul style="list-style-type: none"><li>➢ <i>Topic Modeling</i> : Constructing an extended multi-view LDA model to establish associations between different categories of features in the same instance.</li><li>➢ <i>Anomaly Detection</i> : Five methods of similarity measurement are analyzed and the best method is selected.</li><li>➢ <i>Result Presentation</i> : Web-based data visualization. It is possible to provide an overview of the data as a whole and to pay attention to the details of the data as needed.</li></ul> <div><div>Extended LDA</div><div>Anomaly Detection</div><div>Back-end Development</div><div>Web Design</div><div>Data Visualization</div></div>		

### ✌ Campus Life

- Chuang Yue Space Of Central South University ( first maker space, Star Club of CSU)    **Vice President**    2015—2016  
On behalf of Central South University to participate in the Hunan Science and Technology Association's first "Chuangke-Hunan" technology products and project exhibition;
- Intelligent Car Association of Central South University    **Vice President**    2014—2015  
Organizing 2016 Freescale Smart Cars National Finals; conducting a series of pre-competition training courses and promotional activities;
- College Football Team (more than 3,600 people in the whole college)    **Player**    2013—2015  
2013 school-level freshman semi-finals; 2015 school-level football league champion;

## Honors & Awards

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Merit Student of Peking University ( <b>&lt;10%</b> )	2017-2018
Shared Task : Text Traceability Technology Evaluation (SMP2018-ETST) <b>Ranking First</b>	<b>Summer</b> 2018
Outstanding Graduates from Hunan ( <b>&lt;3%</b> )	<b>Summer</b> 2017
Excellent Club Cadre of Central South University	<b>Fall</b> 2016
Xinhualian Scholarship of Central South University ( <b>&lt;3‰</b> )	<b>Fall</b> 2016
Merit Student of Central South University ( <b>&lt;10%</b> , Three consecutive years)	2014–2016
Second Scholarship of Central South University ( <b>&lt;10%</b> , Three consecutive years)	2014–2016
The 5th China University Students Intelligent Design Competition <b>First prize</b>	<b>Fall</b> 2015
The 11th University Student Programming Competition of Hunan <b>First prize</b>	<b>Fall</b> 2015
Central South University Football League School Championship	<b>summer</b> 2015
National Encouragement Scholarship ( <b>&lt;4%</b> )	<b>Fall</b> 2014
Leimu Scholarship of Central South University ( <b>&lt;0.7‰</b> )	<b>Fall</b> 2014