

# XUANCHENG REN

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## EDUCATION

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**Institute of Computational Linguistics, School of Electronics Engineering and Computer Science, Peking University** September 2017 - Present

*Ph.D. Candidate*

Focus on Natural Language Processing and Deep Learning. In particular, Knowledge-aware Natural Language Understanding and Efficient Deep Learning.

**Department of Computer Science and Technology, School of Electronics Engineering and Computer Science, Peking University** September 2013 - July 2017

*Bachelor of Science*

## PROJECT EXPERIENCE

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### JD Dialog Challenge 2018

First-place in automatic evaluation, Second-place in human evaluation, Architecture Innovation Award. Responsible for solution design, solution validation, documentation, and presentation.

### PKUSeg Toolkit

A multi-domain Chinese word segmentation toolkit; received over 3,000 stars on GitHub (August 2019). Responsible for speed optimization; write the initial Cython code.

## PUBLICATIONS (SELECTED)

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- Wu Chen<sup>#</sup>, **Xuancheng Ren<sup>#</sup>**, Fuli Luo, Xu Sun. A Hierarchical Reinforced Sequence Operation Method for Unsupervised Text Style Transfer. In *ACL 2019*.
- Fenglin Liu<sup>#</sup>, **Xuancheng Ren<sup>#</sup>**, Yuanxin Liu, Kai Lei, Xu Sun. Exploring and Distilling Cross-Modal Information for Image Captioning. In *IJCAI 2019*.
- Xu Sun<sup>#</sup>, **Xuancheng Ren<sup>#</sup>**, Shuming Ma, Bingzhen Wei, Wei Li, Jingjing Xu, Houfeng Wang, Yi Zhang. Training Simplification and Model Simplification for Deep Learning: A Minimal Effort Back Propagation Method. *IEEE TKDE (in press)*.
- Fenglin Liu<sup>#</sup>, **Xuancheng Ren<sup>#</sup>**, Yuanxin Liu, Houfeng Wang, Xu Sun. simNet: Stepwise Image-Topic Merging Network for Generating Detailed and Comprehensive Image Captions. In *EMNLP 2018*.
- **Xuancheng Ren**, Xu Sun, Ji Wen, Bingzhen Wei, Weidong Zhan, Zhiyuan Zhang. Building an Ellipsis-aware Chinese Dependency Treebank for Web Text. In *LREC 2018*.
- Xu Sun, **Xuancheng Ren**, Shuming Ma, Houfeng Wang. meProp: Sparsified Back Propagation for Accelerated Deep Learning with Reduced Overfitting. In *ICML 2017*.

## HONORS & AWARDS

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- Merit Student, *Peking University*, 2017-2018.
- Outstanding Undergraduate Thesis, *School of Electronics Engineering and Computer Science, Peking University*, 2017.
- Award for Collective Duties, *Peking University*, 2016-2017.

## SKILLS

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- Fluent in English (CET-6: 606).
- Advanced in Python and C#; Familiar with Java and C/C++.
- Advanced in PyTorch and TensorFlow.