

Qianqian Xie

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EDUCATION

Wuhan University, Wuhan, Hubei, China

- Ph.D. in Computer Software and Theory

Sep 2014 – Present

Jiangxi Normal University, Nanchang, Jiangxi, China

- B.S. in Computer Science and Technology

Sep 2010 – Jul 2014

RESEARCH INTERESTS

- Machine Learning for Natural Language Processing
- Semi-supervised Deep Generative Models

RESEARCH EXPERIENCE

Computer School, Wuhan University

- Multi-turn Task-oriented Dialogue System Mar 2018 – Present
 - Cooperate with Xiaomi Corporation
 - Designed a multi-turn task-oriented framework for Xiao AI voice assistant
- Research on Key Technologies of Question Answering Based on Unsupervised Knowledge Extraction and Multi-Relation Representation Learning 2018 – Present
 - Supported by Natural Science Foundation of China
 - Focusing on deep generative models and semi-supervised learning
 - Published two papers
- Topic Evolution Analysis and Propagation Tendencies Prediction in Social Media 2015 – 2018
 - Supported by Natural Science Foundation of China
 - Focusing on topic models with sparsity enhancement to address the issues with short texts
 - Published two papers

PUBLICATIONS

- [1] **Xie Q**, Peng M, Huang J, et al. Semi-supervised Deep generative models with Revisiting Manifold Posterior Regularization. In Preparation.
- [2] **Xie Q**, Peng M, Huang J, et al. Neural Variational Inference for Sparse Topic Model. *Empirical Methods in Natural Language Processing (EMNLP)*. 2018 Under Review.
- [3] Peng M (Supervisor), **Xie Q**, Zhang Y, et al. Neural Sparse Topical Coding. *Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics (ACL Volume 1: Long Papers)*. 2018 (Vol. 1, pp. 2332-2340).
- [4] Peng M (Supervisor), **Xie Q**, Wang H, et al. Bayesian Sparse Topical Coding. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*. 2018 Jun 15.
- [5] Peng M (Supervisor), **Xie Q**, Huang J, et al. Sparse Topical Coding with Sparse Groups. *International Conference on Web-Age Information Management (WAIM)*. 2016 Jun 3 (pp. 415-426). Springer, Cham.
- [6] Peng M (Supervisor), Cheng D, **Xie Q**, et al. Topic-Net conversation model. *International Conference on Web Information Systems Engineering (WISE)*. 2018 Accepted.
- [7] Peng M (Supervisor), Yao Y, **Xie Q**, et al. Knowledge representation learning for joint structural and textual embed-ding via Attention-based CNN. *The Seventeenth China National Conference on Computational Linguistics (CCL)*. 2018 Accepted.
- [8] Peng M (Supervisor), Shi H, **Xie Q**, et al. Block Bayesian Sparse Topical Coding. *International Conference on Computer Supported Cooperative Work in Design (CSCWD)*. 2018 Accepted.
- [9] Peng M (Supervisor), Gao W, Wang, H, Zhang, Y, Huang, J, **Xie Q**, et al. Parallelization of massive textstream compression based on compressed sensing. *ACM Transactions on Information Systems (TOIS)*. 2017, 36(2), 17.

AWARDS

- Graduate Academic Scholarship, Computer School, Wuhan University 2014 – Present
- National Encouragement Scholarship, Ministry of Education of PRC Dec 2013