Hong Wang

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RESEARCH INTEREST

I am currently working on information extraction and reasoning over knowledge graph, especially on how to design models for lifelong learning and few-shot learning settings. I am also interested in designing pre-training methods with self-supervised learning, and working on low resource Natural Language Processing such as knowledge transfer from rich resource language to another low resource language.

EDUCATION

University of California, Santa Barbara, Santa Barbara, California, USA

- Ph.D. in Computer Science — Sep 2018 – present
  - Adviser: Prof. William Wang
  - Focus: Natural Language Processing, Deep Learning.

Nanjing University, Nanjing, Jiangsu, China

- B.S. in Computer Science — Sep 2014 – Jun 2018
  - Thesis Advisor: Prof. Yang Yu
  - Focus: Derivative-free Optimization.

EXPERIENCE

Machine Learning Group, Microsoft Research Asia

- Software Engineer Intern — Oct 2017 – Jan 2018
  - Supervisors: Dr. Tao Qin
  - Project: Classification systems and models for ads relevance and click prediction.

Learning And Mining from DatA (LAMDA) Group, Nanjing University

- Research Assistant — Sep 2016 – Jun 2018
  - Supervisors: Prof. Yang Yu
  - Project: A novel approach to improve derivative-free algorithms in noisy environment.

PUBLICATIONS

CONFERENCES

[1] Wenhu Chen, Hongmin Wang, Jianshu Chen, Yunkai Zhang, Hong Wang, Shiyang Li, Xiyou Zhou and William Yang Wang, "TabFact: A Large-scale Dataset for Table-based Fact Verification", In *Proceedings of the International Conference on Learning Representations (ICLR'2020)*, Addis Ababa, Ethiopia, Apr 2020.

[2] Wenhan Xiong, Mo Yu, Xiaoxiao Guo, Hong Wang, Shiyu Chang, Murray Campbell and William Wang, "Simple yet Effective Bridge Reasoning for Open-Domain Multi-Hop Question Answering", MRQA: Machine Reading for Question Answering workshop at EMNLP-IJCNLP 2019, Hong Kong, China, Nov 2019.

[3] Hong Wang, Xin Wang, Wenhan Xiong, Mo Yu, Xiaoxiao Guo, Shiyu Chang and William Wang, "Self-Supervised Learning for Contextualized Extractive Summarization", in *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics (ACL'19)*, Florence, Italy, Jul 2019.

[4] Wenhan Xiong, Jiawei Wu, Hong Wang, Vivek Kulkarni, Mo Yu, Xiaoxiao Guo, Shiyu Chang and William Wang, "TweetQA: A Social Media Focused Question Answering Dataset", in *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics (ACL'19)*, Florence, Italy, Jul 2019.

[5] Hong Wang, Wenhan Xiong, Mo Yu, Xiaoxiao Guo, Shiyu Chang and William Wang, "Sentence Embedding Alignment for Lifelong Relation Extraction", in *Proceedings of the 57th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT'19)*, Minneapolis, MN, USA, Jun 2019.

[6] Hong Wang, Hong Qian and Yang Yu, "Noisy derivative-free optimization with value suppression", in *Proceedings of the 32nd AAAI Conference on Artificial Intelligence (AAAI'18)*, New Orleans, LA, USA, Feb 2018.

PREPRINTS

[1] Hong Wang, Wenhan Xiong, Mo Yu, Xiaoxiao Guo, Shiyu Chang and William Wang, "Meta Reasoning over Knowledge Graphs", technical report, Jun 2019.

[2] Hong Wang, Christfried Focke, Rob Sylvester, Nilesh Mishra and William Wang, "Fine-tune Bert for DocRED with Two-step Process", technical report, Sep 2019.

AWARDS & HONORS

Chancellor's Fellowship, University of California, Santa Barbara — Sep 2018

Outstanding Undergraduate Award, Nanjing University — Jun 2018

Excellent Bachelor Thesis Award, Nanjing University — Jun 2018

National Scholarship, Ministry of Education, China — 2016 – 2017

National Endeavor Scholarship, Ministry of Education, China — 2014 – 2016

SERVICE

COMMITTEE MEMBER & REVIEWER

- Conference on Empirical Methods in Natural Language Processing (EMNLP) and 9th International Joint Conference on Natural Language Processing (IJCNLP), 2019
- The Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI-20), 2020

TALKS & PRESENTATIONS

Sentence Embedding Alignment for Lifelong Relation Extraction. — May 2019

- IBM invited online talk.

[*Last updated on 2019-12-26*]