

# Hong Wang

3530 Phelps Hall, UC Santa Barbara, California, 93106  
hongwang600@ucsb.edu • <http://hongwang600.github.io>

## RESEARCH INTEREST

I am currently working on information extraction and reasoning over knowledge graph, especially for lifelong learning and few-shot learning settings. I am also interested in open-domain question answering, pre-training methods with self-supervised learning, and low resource Natural Language Processing such as transferring knowledge from rich resource language to other low resource languages.

## 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

**Language and Translation Technologies (LATTE) Group**, Facebook AI

- Research Intern Jun 2020 – Sep 2020
  - Supervisor: Dr. Ves Stoyanov
  - Project: Memory augmented pretrained language model.

**Machine Learning Group**, Microsoft Research Asia

- Software Engineer Intern Oct 2017 – Jan 2018
  - Supervisor: 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
  - Supervisor: Prof. Yang Yu
  - Project: A novel approach to improve derivative-free algorithms in noisy environment.

## PUBLICATIONS

### CONFERENCES

- [1] Wenhu Chen, Hanwen Zha, Zhiyu Chen, Wenhan Xiong, Hong Wang, William Wang, “HybridQA: A Dataset of Multi-Hop Question Answering over Tabular and Textual Data”, In *Findings of the Conference on Empirical Methods in Natural Language Processing (Findings of EMNLP 2020)*, Nov 2020.
- [2] Wenhu Chen, Hongmin Wang, Jianshu Chen, Yunkai Zhang, Hong Wang, Shiyang Li, Xiyu 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.
- [3] 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.
- [4] 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.
- [5] 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.

- [6] 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.
- [7] 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] Wenhan Xiong\*, Hong Wang\*, William Yang Wang, “Progressively Pretrained Dense Corpus Index for Open-Domain Question Answering”, technical report, May 2020.
- [2] Hong Wang, Wenhan Xiong, Mo Yu, Xiaoxiao Guo, Shiyu Chang and William Wang, “Meta Reasoning over Knowledge Graphs”, technical report, Jun 2019.
- [3] Hong Wang, Christfried Focke, Rob Sylvester, Nilesch Mishra and William Wang, “Fine-tune Bert for DocRED with Two-step Process”, technical report, Sep 2019.

#### AWARDS & HONORS

<b>Chancellor’s Fellowship</b> , University of California, Santa Barbara	Sep 2020
<b>Chancellor’s Fellowship</b> , University of California, Santa Barbara	Sep 2018
<b>Outstanding Undergraduate Award</b> , Nanjing University	Jun 2018
<b>Excellent Bachelor Thesis Award</b> , Nanjing University	Jun 2018
<b>National Scholarship</b> , Ministry of Education, China	2016 – 2017
<b>National Endeavor Scholarship</b> , Ministry of Education, China	2014 – 2016

#### SERVICE

##### COMMITTEE MEMBER & REVIEWER

- Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP-19), 2019
- The Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI-20), 2020
- The 58th annual meeting of the Association for Computational Linguistics (ACL-20), 2020
- The Conference on Empirical Methods in Natural Language Processing (EMNLP-20), 2020
- The 1st Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 10th International Joint Conference on Natural Language Processing (AACL-IJCNLP-20), 2020
- The Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI-21), 2021

#### TALKS & PRESENTATIONS

<b>Sentence Embedding Alignment for Lifelong Relation Extraction.</b>	May 2019
▪ IBM invited online talk.	

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