

WENHU CHEN

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ABOUT ME

I'm currently a Ph.D student in Computer Science Department of University of California, Santa Barbara supervised by William Wang and Xifeng Yan. My research interests lie in natural language processing and deep learning. Primarily, I work on natural language processing under structured data, like symbolic reasoning [4,14,15,19], dialog system [7,11]. Besides, I'm also interested in variational inference [4, 8,12], multi-modality problems like captioning, question answering, inference [2,5,16,16], and machine translation [1,3,6], etc. My research goal is to bring together free-form linguistic reasoning and structured symbolic reasoning to build the new-generation of AI system.

CONFERENCE PUBLICATIONS

[19] Meta Module Network for Compositional Visual Reasoning

Wenhu Chen, Zhe Gan, Linjie Li, Yu Cheng, William Wang, Jingjing Liu. Technical Report, 2019

[18] Logical Natural Language Generation from Open-Domain Tables

Wenhu Chen, Jianshu Chen, Yu Su, Zhiyu Chen and William Yang Wang. Proceedings of ACL 2020, Seattle, USA (Long)

[17] Few-shot NLG with Pre-trained Language Model

Zhiyu Chen, Harini Eavani, Wenhu Chen, Yinyin Liu and William Yang Wang. Proceedings of ACL 2020, Seattle, USA (Short)

[16] VIOLIN: A Large-Scale Dataset for Video-and-Language Inference

Jingzhou Liu, Wenhu Chen, Yu Cheng, Zhe Gan, Licheng Yu, Yiming Yang, Jingjing Liu. Proceedings of CVPR 2020, Seattle, USA (Poster)

[15] TabFact: A Large-scale Dataset for Table-based Fact Verification

Wenhu Chen, Hongmin Wang, Jianshu Chen, Yunkai Zhang, Hong Wang, Shiyang Li, Xiyu Zhou and William Yang Wang. Proceedings of ICLR 2020, Addis Ababa, Ethiopia (Poster)

[14] Generative Adversarial Zero-Shot Relational Learning for Knowledge Graphs

Pengda Qin, Xin Wang, Wenhu Chen, Chunyun Zhang, Weiran Xu, William Yang Wang. Proceedings of AAAI 2020, New York, USA (Oral)

[13] Enhancing the Locality and Breaking the Memory Bottleneck of Transformer on Time Series Forecasting

Shiyang Li, Xiaoyong Jin, Yao Xuan, Xiyu Zhou, Wenhu Chen, Yu-Xiang Wang, Xifeng Yan. Proceedings of NeurIPS 2019, Vancouver, Canada (Poster)

[12] Interpreting and Improving Deep Neural SLU Models via Vocabulary Importance

Yilin Shen, Wenhu Chen, Hongxia Jin. Proceedings of INTERSPEECH 2019, Graz, Austria (Oral Presentation)

[11] Semantically Conditioned Dialog Response Generation via Hierarchical Disentangled Self-Attention

Wenhu Chen, Jianshu Chen, Pengda Qin, Xifeng Yan and William Yang Wang. Proceedings of ACL 2019, Florence, Italy (Long Poster)

[10] Global Textual Relation Embedding for Relational Understanding

Zhiyu Chen, Hanwen Zha, Honglei Liu, Wenhu Chen, Xifeng Yan and Yu Su. Proceedings of ACL 2019, Florence, Italy (Short Poster)

[9] Mining Algorithm Roadmap in Scientific Publications

Hanwen Zha, Wenhu Chen, Keqian Li and Xifeng Yan. Proceedings of KDD 2019, Alaska, USA (Research Track, Oral)

[8] How Large A Vocabulary Does Text Classification Need? A Variational Approach on Vocabulary Selection

Wenhu Chen, Yu Su, Yilin Shen, Zhiyu Chen, Xifeng Yan and William Yang Wang. Proceedings of NAACL 2019, Minneapolis, USA (Long Oral)

[7] XL-NBT: A Cross-lingual Neural Belief Tracking Framework

Wenhu Chen, Jianshu Chen, Yu Su, Xin Wang, Dong Yu, Xifeng Yan and William Yang Wang. Proceedings of EMNLP 2018, Brussel, Belgium (Long Paper)

[6] Triangular Architecture for Rare Language Translation

Shuo Ren, Wenhu Chen, Shujie Liu, Mu Li, Ming Zhou and Shuai Ma. Proceedings of ACL 2018, Melbourne, Australia (Long Oral)

[5] No Metrics Are Perfect: Adversarial Reward Learning for Visual Storytelling

Wenhu Chen*, Xin Wang*, Yuan-Fang Wang and William Yang Wang. Proceedings of ACL 2018, Melbourne, Australia (Long Oral)

[4] Variational Knowledge Graph Reasoning

Wenhu Chen, Wenhan Xiong, William Yang Wang, Xifeng Yan. Proceedings of NAACL 2018, New Orleans, CA (Long Oral)

[3] Generative Bridging Network in Neural Sequence Prediction

Wenhu Chen, Guanlin Li, Shuo Ren, Shujie Liu, Zhirui Zhang, Mu Li, Ming Zhou. Proceedings of NAACL 2018, New Orleans, CA (Long Poster)

[2] Video Captioning via Hierarchical Reinforcement Learning

Xin Wang, Wenhu Chen, Jiawei Wu, Yuan-fang Wang, William Yang Wang. Proceedings of CVPR 2018, Salt Lake City, UTAH (Poster)

[1] Guided alignment training for topic-aware neural machine translation

Wenhu Chen, Evgeny Matusov, Shahram Khadivi, JT Peter. AMTA 2016, Austin, TX (Poster)

SERVICE

2018: Program Committee in Social-NLP, EMNLP

2019: Program Committee in AAAI, NAACL, ICML, ACL, NeurIPS, TACL, EMNLP

2020: Program Committee in AAAI, ACL, ICML, EMNLP, NeurIPS, AACL

EDUCATION

University of California, Santa Barbara

Sep 2017-Now

Ph.D in Computer Science

Advisor: Xifeng Yan and William Wang

Overall GPA: 3.95/4.0

ETH Zurich, Switzerland

June 2016-Dec 2016

Visiting in Computer Science

Overall GPA: 6.0/6.0

RWTH Aachen University, Germany

Sep 2014-Dec 2016

M.Sc. in Electronics Engineering

Overall GPA: 1.4/1.0

Huazhong University of Science and Technology, China

Sep 2010-June 2014

B.Sc. in Electronics Engineering

Overall GPA: 86/100

EXPERIENCE

Microsoft AI & Cloud

June 2019 - Sep 2019

Research Intern

Bellevue, USA

- Designed modular network for visual question answering

Samsung Research America
Research Intern

June 2018 - Sep 2018
Mountain View, USA

- Designed model compression algorithm for NLP tasks (NAACL 2019, INTERSPEECH 2019)

Microsoft Research Asia
Research Intern

Feb 2017 - Aug 2017
Beijing, China

- Designed data-augmentation algorithm for sequence learning (NAACL 2018, ACL 2018)

eBay Research
Research Intern

December 2015 - June 2016
Aachen, Germany

- Investigated the usage of statistical alignment in neural machine translation (AMTA 2016)

AWARD

Tencent AI Gift Award: Awarded the Tencent AI Gift Fund for PhD sponsorship.

IDEA Research Grant: Awarded IDEA research scholarship for exchange program in ETH.

German National Scholarship: Awarded a one-year scholarship sponsored by Robert Bosch Inc.

China Scholarship Committee Scholarship: Awarded full scholarship from CSC for a one-year exchange program in Germany.

MCM Finalist Award: Ranked top 0.5% in The Mathematical Contest in Modeling in 2013.