

WENHU CHEN

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ABOUT ME

I'm a Ph.D student in Computer Science Department of University of California, Santa Barbara advised by William Wang and Xifeng Yan. I mainly work on natural language processing and machine learning. My research can be summarized as the following aspects:

- 1) **natural language understanding:** question answering, fact checking, dialog state tracking, etc.
- 2) **natural language generation** data-to-text generation, dialog generation, visual captioning, etc.
- 3) **cross-lingual learning** machine translation, cross-lingual transfer learning, etc.

EDUCATION

University of California, Santa Barbara *Sep 2017-Now*
Ph.D in Computer Science
Advisor: William (Yang) Wang and Xifeng Yan

ETH Zurich, Switzerland *June 2016-Dec 2016*
Visiting in Computer Science
Advisor: Aurelien Lucchi

RWTH Aachen University, Germany *Sep 2014-Dec 2016*
M.Sc. in Electronics Engineering

Huazhong University of Science and Technology, China *Sep 2010-June 2014*
B.Sc. in Electronics Engineering

RESEARCH EXPERIENCE

Google Research *June 2020 - Dec 2020*
Topic: Open Question Answering over tables and text
Mentors: Ming-Wei Chang, Eva Schlinger, William Cohen

Microsoft AI & Cloud *June 2019 - Sep 2019*
Topic: Visual Question Answering via compositional reasoning
Mentors: Zhe Gan, Jingjing Liu

Samsung Research America *June 2018 - Sep 2018*
Topic: Deep learning model compression
Mentors: Yi-Lin Shen, Hongxia Jin

Microsoft Research Asia *Feb 2017 - Aug 2017*
Topic: Enhancing machine translation with data augmentation
Mentors: Shujie Liu, Ming Zhou

eBay Research *Dec 2015 - June 2016*
Topic: Enhancing machine translation with statistical alignment
Mentors: Matusov Evgency, Shahram Khadivi

TEACHING EXPERIENCE

Guest Lecturer, UCSB, 2018 Spring : CS 291K Advanced Deep Learning
Teaching Assistant, UCSB, 2020 Spring: CS 165B Machine Learning

PEER-REVIEWED PUBLICATIONS

(Note: Most of the listed are 1st-tier AI conferences with acceptance rate between 20%-25%.)

[24] Unsupervised Multi-hop Question Answering by Question Generation

Liangming Pan, Wenhui Chen, Wenhan Xiong, Min-Yen Kan, William Yang Wang

NAACL 2021

[23] Open Question Answering over Tables and Text

Wenhui Chen, Ming-Wei Chang, Eva Schlinger, William Yang Wang, William W. Cohen

ICLR 2021

[22] KGPT: Knowledge-Grounded Pre-Training for Data-to-Text Generation

Wenhui Chen, Yu Su, Xifeng Yan, William Yang Wang.

EMNLP 2020

[21] HybridQA: A Dataset of Multi-Hop Question Answering over Tabular and Textual Data

Wenhui Chen, Hanwen Zha, Zhiyu Chen, Wenhan Xiong, Hong Wang, William Wang.

Findings of EMNLP 2020

[20] Logic2Text: High-Fidelity Natural Language Generation from Logical Forms

Zhiyu Chen, Wenhui Chen, Hanwen Zha, Xiyu Zhou, Yunkai Zhang, Sairam Sundaresan, William Yang Wang.

Findings of EMNLP 2020

[19] Meta Module Network for Compositional Visual Reasoning

Wenhui Chen, Zhe Gan, Linjie Li, Yu Cheng, William Wang, Jingjing Liu.

WACV 2021 (Best Student Paper Honorable Mention)

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

Wenhui Chen, Jianshu Chen, Yu Su, Zhiyu Chen and William Yang Wang.

ACL 2020

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

Zhiyu Chen, Harini Eavani, Wenhui Chen, Yinyin Liu and William Yang Wang.

ACL 2020

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

Jingzhou Liu, Wenhui Chen, Yu Cheng, Zhe Gan, Licheng Yu, Yiming Yang, Jingjing Liu.

CVPR 2020

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

Wenhui Chen, Hongmin Wang, Jianshu Chen, Yunkai Zhang, Hong Wang, Shiyang Li, Xiyu Zhou and William Yang Wang.

ICLR 2020

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

Pengda Qin, Xin Wang, Wenhui Chen, Chunyun Zhang, Weiran Xu, William Yang Wang.

AAAI 2020 (Oral)

[13] Enhancing the Locality and Breaking the Memory Bottleneck of Transformer on Time Series Forecasting
Shiyang Li, Xiaoyong Jin, Yao Xuan, Xiyu Zhou, Wenhui Chen, Yu-Xiang Wang, Xifeng Yan.

NeurIPS 2019

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

Yilin Shen, Wenhui Chen, Hongxia Jin.

INTERSPEECH 2019 (Oral)

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

Wenhui Chen, Jianshu Chen, Pengda Qin, Xifeng Yan and William Yang Wang.

ACL 2019

[10] Global Textual Relation Embedding for Relational Understanding

Zhiyu Chen, Hanwen Zha, Honglei Liu, Wenhui Chen, Xifeng Yan and Yu Su.

ACL 2019

[9] Mining Algorithm Roadmap in Scientific Publications

Hanwen Zha, Wenhui Chen, Keqian Li and Xifeng Yan.

KDD 2019 (Oral)

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

Wenhui Chen, Yu Su, Yilin Shen, Zhiyu Chen, Xifeng Yan and William Yang Wang.

NAACL 2019 (Oral)

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

Wenhui Chen, Jianshu Chen, Yu Su, Xin Wang, Dong Yu, Xifeng Yan and William Yang Wang.

EMNLP 2018

[6] Triangular Architecture for Rare Language Translation

Shuo Ren, Wenhui Chen, Shujie Liu, Mu Li, Ming Zhou and Shuai Ma.

ACL 2018 (Oral)

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

Wenhui Chen*, Xin Wang*, Yuan-Fang Wang and William Yang Wang.

ACL 2018 (Oral)

[4] Variational Knowledge Graph Reasoning

Wenhui Chen, Wenhan Xiong, William Yang Wang, Xifeng Yan.

NAACL 2018 (Oral)

[3] Generative Bridging Network in Neural Sequence Prediction

Wenhui Chen, Guanlin Li, Shuo Ren, Shujie Liu, Zhirui Zhang, Mu Li, Ming Zhou.

NAACL 2018

[2] Video Captioning via Hierarchical Reinforcement Learning

Xin Wang, Wenhui Chen, Jiawei Wu, Yuan-fang Wang, William Yang Wang.

CVPR 2018

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

Wenhui Chen, Evgeny Matusov, Shahram Khadivi, JT Peter.

AMTA 2016

[0] Using meta-information in neural machine translation

Evgeny Matusov, Wenhui Chen, Shahram Khadivi

US Patent 2017

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, Session Chair at EMNLP

2021: Program Committee in ICLR, NAACL

MENTORING

Zhiyu Chen (PhD student, UCSB)

Xinyi Wang (PhD student, UCSB)

Yi-Lin Tuan (PhD student, UCSB)

Liangming Pan (PhD student, NUS)

ACADEMIC AWARD

2021 WACV Best Student Paper Honorable Mention.

2019 NERURIPS Outstanding Reviewer Award.

2018 Tencent AI Gift Award.

2016 IDEA Research Grant

2016 German National Scholarship

2014 China Scholarship Committee Scholarship

2012 MCM Finalist Award