

WENHU CHEN

Location: Santa Barbara, **Phone:** (805)455-1121, **Email:** wenhuchen@ucsb.edu
Website: <https://wenhuchen.github.io/>, **Github:** <https://github.com/wenhuchen>

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 or semi-structured data like tables [23,21,20,18,15], KB [22,17,4], etc. I'm mainly interested in tasks like question answering [21,19], text generation [22,20,18,11], fact-checking [16,15] and other related understanding tasks [10,7]. Besides, I'm also interested in variational inference [12,8,4], multi-modality problems [19,16,5,2], and machine translation [6,3,1], etc. My research goal is to bring together free-form textual knowledge and structured symbolic knowledge to build the new-generation AI system.

CONFERENCE PUBLICATIONS

[23] Open Question Answering over Tables and Text

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

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

Wenhu Chen, Yu Su, Xifeng Yan, William Yang Wang. Proceedings of EMNLP 2020

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

Wenhu Chen, Hanwen Zha, Zhiyu Chen, Wenhan Xiong, Hong Wang, William Wang. Proceedings of EMNLP 2020 (Findings)

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

Zhiyu Chen, Wenhu Chen, Hanwen Zha, Xiyu Zhou, Yunkai Zhang, Sairam Sundaresan, William Yang Wang. Proceedings of EMNLP 2020 (Findings)

[19] Meta Module Network for Compositional Visual Reasoning

Wenhu Chen, Zhe Gan, Linjie Li, Yu Cheng, William Wang, Jingjing Liu. Proceedings of WACV 2021, Hawaii, USA (Oral)

[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)

- [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, USA (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, UAS (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, USA (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 Socal-NLP, EMNLP
 2019: Program Committee in AAAI, NAACL, ICML, ACL, NeurIPS, TACL, EMNLP
 2020: Program Committee in AAAI, ACL, ICML, EMNLP, NeurIPS
 2021: Program Committee in ICLR

EDUCATION

University of California, Santa Barbara
 Ph.D in Computer Science
 Advisor: Xifeng Yan and William Wang
 Overall GPA: 3.95/4.0

Sep 2017-Now

ETH Zurich, Switzerland
 Visiting in Computer Science
 Overall GPA: 6.0/6.0

June 2016-Dec 2016

RWTH Aachen University, Germany

M.Sc. in Electronics Engineering

Overall GPA: 1.4/1.0

Sep 2014-Dec 2016

Huazhong University of Science and Technology, China

B.Sc. in Electronics Engineering

Overall GPA: 86/100

Sep 2010-June 2014

EXPERIENCE

Google Research

Student Researcher Program

Sep 2020 - Dec 2020

Pittsburgh, USA

- Work on Open-Domain Question Answering Systems

Google Research

Research Intern

June 2020 - Sep 2020

Pittsburgh, USA

- Designed Open-Domain Question Answering Systems

Microsoft AI & Cloud

Research Intern

June 2019 - Sep 2019

Bellevue, USA

- Designed modular network for visual question answering (CVPR 2020, WACV 2021)

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.