

# WENHU CHEN

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## ABOUT ME

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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 [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

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- [22] **KGLM: Pretrained Knowledge-Grounded Language Model 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

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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

2021: Program Committee in ICLR

## EDUCATION

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**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  
B.Sc. in Electronics Engineering  
Overall GPA: 86/100

Sep 2010-June 2014

## EXPERIENCE

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### 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

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**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.