

# WENHU CHEN

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## ABOUT ME

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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

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<b>University of California, Santa Barbara</b> Ph.D in Computer Science Advisor: William (Yang) Wang and Xifeng Yan	<i>Sep 2017-Now</i>
<b>ETH Zurich, Switzerland</b> Visiting in Computer Science Advisor: Aurelien Lucchi	<i>June 2016-Dec 2016</i>
<b>RWTH Aachen University, Germany</b> M.Sc. in Electronics Engineering	<i>Sep 2014-Dec 2016</i>
<b>Huazhong University of Science and Technology, China</b> B.Sc. in Electronics Engineering	<i>Sep 2010-June 2014</i>

## RESEARCH EXPERIENCE

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<b>Google Research</b> Topic: Open Question Answering over tables and text Mentors: Ming-Wei Chang, Eva Schlinger, William Cohen	June 2020 - Dec 2020
<b>Microsoft AI &amp; Cloud</b> Topic: Visual Question Answering via compositional reasoning Mentors: Zhe Gan, Jingjing Liu	June 2019 - Sep 2019
<b>Samsung Research America</b> Topic: Deep learning model compression Mentors: Yi-Lin Shen, Hongxia Jin	June 2018 - Sep 2018
<b>Microsoft Research Asia</b> Topic: Enhancing machine translation with data augmentation Mentors: Shujie Liu, Ming Zhou	Feb 2017 - Aug 2017
<b>eBay Research</b> Topic: Enhancing machine translation with statistical alignment Mentors: Matusov Evgency, Shahram Khadivi	Dec 2015 - June 2016

## TEACHING EXPERIENCE

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

## PEER-REVIEWED PUBLICATIONS

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

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

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

**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.

**Findings of EMNLP 2020**

[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.

**Findings of EMNLP 2020**

[19] Meta Module Network for Compositional Visual Reasoning

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

**WACV 2021 (Oral)**

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

Wenhu 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, Wenhu Chen, Yinyin Liu and William Yang Wang.

**ACL 2020**

[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.

**CVPR 2020**

[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.

**ICLR 2020**

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

Pengda Qin, Xin Wang, Wenhu 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, Wenhu Chen, Yu-Xiang Wang, Xifeng Yan.

**NeurIPS 2019**

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

Yilin Shen, Wenhu Chen, Hongxia Jin.

**INTERSPEECH 2019 (Oral)**

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

Wenhu 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, Wenhu Chen, Xifeng Yan and Yu Su.

**ACL 2019**

[9] Mining Algorithm Roadmap in Scientific Publications

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

**KDD 2019 (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.

**NAACL 2019 (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.

#### **EMNLP 2018**

[6] Triangular Architecture for Rare Language Translation

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

#### **ACL 2018 (Oral)**

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

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

#### **ACL 2018 (Oral)**

[4] Variational Knowledge Graph Reasoning

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

#### **NAACL 2018 (Oral)**

[3] Generative Bridging Network in Neural Sequence Prediction

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

#### **NAACL 2018**

[2] Video Captioning via Hierarchical Reinforcement Learning

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

#### **CVPR 2018**

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

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

#### **AMTA 2016**

### **TECHNICAL REPORTS & PATENTS**

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#### **Unsupervised Multi-hop Question Answering by Question Generation**

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

#### **Open Question Answering over Tables and Text**

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

#### **Using meta-information in neural machine translation**

Evgeny Matusov, Wenhu Chen, Shahram Khadivi

### **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, Session Chair at EMNLP

2021: Program Committee in ICLR, NAACL

### **MENTORING**

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Zhiyu Chen (PhD student, UCSB)

Xinyi Wang (PhD student, UCSB)

Yi-Lin Tuan (PhD student, UCSB)

Liangming Pan (PhD student, NUS)

### **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 exchange program in Germany.

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