Yizhong Wang

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EDUCATION

University of Washington, Seattle, USA . . . . *Sep 2019 - Present*
Ph.D. student in Computer Science
Advisors: Hannaneh Hajishirzi, Noah Smith

Peking University, Beijing, China . . . . *Sep 2016 - July 2019*
M.S. in Computer Science
Advisor: Sujian Li

Shanghai Jiao Tong University, Shanghai, China . . . . *Sep 2012 - July 2016*
B.S. in Computer Science and Technology
Advisor: Kenny Q. Zhu

RESEARCH INTERESTS

- **General-purpose instruction-following models**: [18, 17, 16, 15]

- **Question answering and knowledge-grounded NLP**: [13, 11, 8, 6, 4]

- **Symbolic reasoning by/augmented neural networks** [9, 8]

EMPLOYMENT

University of Washington . . . . *Sep 2019 - Present*
Research Assistant, Supervisors: Hannaneh Hajishirzi, Noah Smith

Allen Institute for Artificial Intelligence . . . . *Jan 2022 - Present*
Part-time Research Intern, Collaborators: Daniel Khashabi, Pradeep Dasigi

Facebook AI Research . . . . *Sep 2021 - Dec 2021*
Research Intern, Mentor: Sebastian Riedel

Allen Institute for Artificial Intelligence . . . . *Dec 2020 - May 2021*
Part-time Research Intern, Collaborators: Tushar Khot, Ashish Sabharwal

Institute of Computational Linguistics, Peking University . . . . *Oct 2018 - Feb 2019*
Research Assistant, Supervisor: Sujian Li

Allen Institute for Artificial Intelligence . . . . *Oct 2018 - Feb 2019*
Research Intern, Mentors: Matt Gardner, Sameer Singh

Microsoft Research Asia . . . . *May 2018 - Sep 2018*
Research Intern, Mentor: Furu Wei

Baidu NLP . . . . *June 2017 - Feb 2018*
Research Intern, Mentors: Kai Liu, Yajuan Lyu

PUBLICATIONS (Google Scholar, * denotes equal contribution.)

[18] Self-Instruct: Aligning Language Models with Self-Generated Instructions
Yizhong Wang, Yeganeh Kordi, Swaroop Mishra, Alisa Liu, Noah A. Smith, Daniel Khashabi, Hannaneh Hajishirzi
ArXiv, 2022

[17] HINT: Hypernetwork Instruction Tuning for Efficient Zero-Shot Generalisation
Hamish Ivison, Akshita Bhagia, **Yizhong Wang**, Hannaneh Hajishirzi, Matthew Peters
ArXiv, 2022

[16] One Embedder, Any Task: Instruction-Finetuned Text Embeddings
Hongjin Su, Weijia Shi, Jungo Kasai, **Yizhong Wang**, Yushi Hu, Mari Ostendorf, Wen-tau Yih, Noah A. Smith, Luke Zettlemoyer, Tao Yu
ArXiv, 2022

[15] Super-NaturalInstructions: Generalization via Declarative Instructions on 1600+ NLP Tasks
Yizhong Wang*, Swaroop Mishra*, Pegah Alipoormolabashi, Yeganeh Kordi, ..., Chitta Baral, Yejin Choi, Hannaneh Hajishirzi, Noah A. Smith, Daniel Khashabi
EMNLP, 2022

[14] Probing Across Time: What Does RoBERTa Know and When?
Leo Z. Liu*, **Yizhong Wang***, Jungo Kasai, Hannaneh Hajishirzi, Noah A. Smith
EMNLP Findings, 2021

[13] MultiModalQA: Complex Question Answering over Text, Tables and Images
Alon Talmor, Ori Yoran, Amnon Catav, Dan Lahav, **Yizhong Wang**, Akari Asai, Gabriel Ilharco, Hannaneh Hajishirzi, Jonathan Berant
ICLR, 2021

[12] Automated Lay Language Summarization of Biomedical Scientific Reviews
Yue Guo, Wei Qiu, **Yizhong Wang**, Trevor Cohen
AAAI, 2021

[11] LiveQA: A Question Answering Dataset over Sports Live
Qianying Liu, Sicong Jiang, **Yizhong Wang**, Sujian Li
CCL, 2020 **(Best Paper Award)**

[10] Dataset Cartography: Mapping and Diagnosing Datasets with Training Dynamics
Swabha Swayamdipta, Roy Schwartz, Nicholas Lourie, **Yizhong Wang**, Hannaneh Hajishirzi, Noah A. Smith and Yejin Choi
EMNLP, 2020

[9] Do Neural NLP Models Know Numbers? Probing Numeracy in Embeddings
Eric Wallace*, **Yizhong Wang***, Sujian Li, Sameer Singh and Matt Gardner
EMNLP-IJCNLP, 2019

[8] DROP: A Reading Comprehension Benchmark Requiring Discrete Reasoning Over Paragraphs
Dheeru Dua, **Yizhong Wang**, Pradeep Dasigi, Gabriel Stanovsky, Sameer Singh, Matt Gardner
NAACL, 2019

[7] Toward Fast and Accurate Neural Discourse Segmentation
Yizhong Wang, Sujian Li
EMNLP, 2018

[6] Multi-Passage Machine Reading Comprehension with Cross-Passage Answer Verification
     Yizhong Wang, Kai Liu, Jing Liu, Wei He, Yajuan Lyu, Hua Wu, Sujian Li, Haifeng Wang
     ACL, 2018

[5] Bag-of-Words as Target for Neural Machine Translation
     Shuming Ma, Xu Sun, **Yizhong Wang**, Junyang Lin
     ACL, 2018

[4] DuReader: a Chinese Machine Reading Comprehension Dataset from Real-world Applications
     Wei He, Kai Liu, Jing Liu, Yajuan Lyu, Shiqi Zhao, Xinyan Xiao, Yuan Liu, **Yizhong Wang**, Hua Wu,
     Qiaoqiao She, Xuan Liu, Tian Wu, Haifeng Wang
     ACL Workshop on Machine Reading for Question Answering, 2018

[3] A Two-stage Parsing Method for Text-level Discourse Analysis
     Yizhong Wang, Sujian Li, Houfeng Wang
     ACL, 2017 **(Outstanding Paper Award)**

[2] Tag-Enhanced Tree-Structured Neural Networks for Implicit Discourse Relation Classification
     Yizhong Wang, Sujian Li, Jingfeng Yang, Xu Sun and Houfeng Wang
     IJCNLP, 2017

[1] Towards Non-projective High-Order Dependency Parser
     Wenjing Fang, Kenny Q. Zhu, **Yizhong Wang**, Jia Tan.
     COLING 2016, System Demonstration

HONORS AND AWARDS

Best Paper Award of CCL 2020

Outstanding Paper Award of ACL 2017

Founder Scholarship, 2017

Outstanding Graduate of Shanghai Jiao Tong Univ., 2016

Chun-Tsung Scholar (established by Nobel Prize laureate Tsung-Dao Lee), 2016

PROFESSIONAL SERVICE

Reviewer / Program Committee:

- NLP: ACL 2019-23, EMNLP 2019-22, NAACL 2020-22, ARR 2021-22, COLING 2022, AACL 2020
- ML/AI: ICLR 2022-23, NeurIPS 2021-22, ICML 2023, AAAI 2020-21, AKBC 2020-22

Workshop organization:

- Co-chair of ACL 2020 Student Research Workshop

Departmental service:

- UW CSE PhD admission committee member 2021-23.
- Co-organizer of the UWNLP Retreat 2022.

TEACHING EXPERIENCE

Natural Language Processing Capstone, University of Washington . . . . Spring 2022
Teaching Assistant, Instructor: Noah Smith

Introduction to Artificial Intelligence, Peking University . . . . *Summer 2018*
Teaching Assistant, Instructor: Vincent Ng

Discrete Math, Peking University . . . . *Fall 2016 / Fall 2017*
Teaching Assistant, Instructor: Sujian Li

STUDENT MENTORING

Abhika Mishra, BS student at UW, 01/2023–Present

Pengfei He, ML Engineer, Petuum Inc., 10/2022-Present

Yeganeh Kordi, BS student at Tehran Polytechnic, 06/2022–Present (Publication: [15, 18])

Hamish Ivison, Predoctoral Young Investigator at AI2, 04/2022–12/2022 (Publication: [17])

Leo Zeyu Liu, BS/MS Student at UW → Meta AI resident, 12/2019–04/2021 (Publication: [14])