

YUSHI HU

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EDUCATION

University of Washington

Ph.D. in Electrical & Computer Engineering

Advisors: Mari Ostendorf, Noah A. Smith

Research interests: Large Multimodal Models, Reinforcement Learning from Human (AI) Feedback

Seattle, WA

2021 – Present

University of Chicago

B.S. in Computer Science, Mathematics, B.A. in Economics

summa cum laude, Phi Beta Kappa

Chicago, IL

2017 – 2021

PREPRINT & PUBLICATIONS

* indicates equal contribution

1. [Fine-Grained Human Feedback Gives Better Rewards for Language Model Training](#).
Wu, Z.* , **Hu, Y.***, Shi, W., Dziri, N., Suhr, A., Ammanabrolu, P., Smith, N.A., Ostendorf, M. and Hajishirzi, H.
NeurIPS 2023 (spotlight).
2. [TIFA: Accurate and Interpretable Text-to-Image Faithfulness Evaluation with Question Answering](#).
Yushi Hu, Benlin Liu, Jungo Kasai, Yizhong Wang, Mari Ostendorf, Ranjay Krishna, Noah A. Smith.
ICCV 2023.
3. [PromptCap: Prompt-Guided Image Captioning for VQA with GPT-3](#).
Yushi Hu*, Hang Hua*, Zhengyuan Yang, Weijia Shi, Noah A Smith, Jiebo Luo.
ICCV 2023.
4. [One Embedder, Any Task: Instruction-Finetuned Text Embeddings](#).
H. Su*, W. Shi*, J. Kasai, Y. Wang, **Y. Hu**, M. Ostendorf, W. Yih, N. Smith, L. Zettlemoyer, T. Yu.
ACL 2023 Findings.
5. [Binding Language Models in Symbolic Languages](#).
Z. Cheng*, T. Xie*, P. Shi, C. Li, R. Nadkarni, **Y. Hu**, C. Xiong, D. Radev, M. Ostendorf, L. Zettlemoyer, N. Smith, T. Yu.
ICLR 2023 (spotlight).
6. [Unsupervised Learning of Hierarchical Conversation Structure](#).
Bo-Ru Lu, **Yushi Hu**, Hao Cheng, Noah A. Smith, Mari Ostendorf.
EMNLP 2022 Findings.
7. [In-Context Learning for Dialogue State Tracking](#).
Yushi Hu, Chia-Hsuan Lee, Tianbao Xie, Tao Yu, Noah A. Smith, Mari Ostendorf.
EMNLP 2022 Findings.
8. [Acoustic Span Embeddings for Multilingual Query-by-Example Search](#).
Yushi Hu, Shane Settle, and Karen Livescu.
IEEE Spoken Language Technology Workshop (SLT 2021).
9. [Multilingual Jointly Trained Acoustic and Written Word Embeddings](#).
Yushi Hu, Shane Settle, and Karen Livescu.
Interspeech 2020.

RESEARCH EXPERIENCE

University of Washington

Graduate Research Assistant, UW NLP group

Advisor: Prof. Mari Ostendorf, Prof. Noah A. Smith

Seattle, WA

Sep 2021 – Present

Toyota Technological Institute at Chicago

Research Assistant, Speech and Language group

Advisor: Prof. Karen Livescu

Chicago, IL

Sep 2019 – Present

INDUSTRY EXPERIENCE

Google Research

Student researcher

- Large Multimodal Models, Text-to-Image Generation

Mountain View, CA

Jun 2023 – Sep 2023

Tencent AI Lab (Seattle)

Research Intern

Bellevue, WA

Jun 2022 – Sep 2022

- Style-controllable text-to-speech synthesis. Self-supervised learning of prosody.

AWARDS & HONORS

University of Washington Top Scholar Recruitment Award	2021
University of Washington ECE PhD Fellowship	2021
<i>summa cum laude</i> , University of Chicago	2021
Gary Becker Scholar, University of Chicago	2020-2021
ACM-ICPC Mid-Central Regional Finalist	2019
1st Prize, 33rd Chinese Physics Olympiad	2016
2nd Place, China Team Captain, 29th International Young Physicists' Tournament	2016

SKILLS

Programming Languages (proficient): Python, C/C++, MATLAB, bash

Programming Languages (capable): Java, JavaScript, Node.js

Frameworks and tools: PyTorch, TensorFlow, HuggingFace, OpenCV, NLTK, Spark

Database Management: SQL, Pandas

Natural Languages: Mandarin (native), English (fluent)