Xuhui Zhou

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Research Interests

Natural Language Processing: Socially intelligent and equitable NLP, explainable NLP.

Other: human-computer interaction, multimodal machine learning, theory of mind.

Education

Carnegie Mellon University, Pittsburgh, PA   Aug 2022
PhD in Computer Science (Language Technologies).

Georgia Institute of Technology, Atlanta, GA   Sep 2021-Aug 2022
PhD in Computer Science.

University of Washington, Seattle, WA   Sep 2019–Jun 2021
M.Sc in Computational Linguistics.
Advisor: Noah Smith

Nanjing University, Nanjing, China   Sep 2015–Jun 2019
B.Sc in Statistics, Department of Mathematics
Advisor: Shujian Huang

University of California Berkeley (visiting student), Berkeley, CA   Aug 2017-May 2018

Publications
(* Equal contribution)

Annotators with Attitudes: How Annotator Beliefs And Identities Bias Toxic Language Detection
Maarten Sap, Swabha Swayamdipta, Laura Vianna, **Xuhui Zhou**, Yejin Choi, Noah A. Smith
In *Proceedings of NACCL, 2022*

Emergent Communication Fine-tuning (EC-FT) for Pretrained Language Models
Shane Steinert-Threlkeld, **Xuhui Zhou**, Zeyu Liu, C. M. Downey
In *Proceedings of ICLR EmeCom, 2022*
🏅 Runner-up Best Paper

Extracting and Inferring Personal Attributes from Dialogue
Zhilin Wang, **Xuhui Zhou**, Rik Koncel-Kedziorski, Alex Marin, Fei Xia
In *Proceedings of ACL ConvAI, 2022*

Challenges in Automated Debiasing for Toxic Language Detection
Xuhui Zhou, Maarten Sap, Swabha Swayamdipta, Noah A.Smith, Yejin Choi
In *Proceedings of EACL, 2021*

Linguistically-Informed Transformations (LIT): A Method for Automatically Generating Contrast Sets
Chuanrong Li*, Lin Shengshuo*, Zeyu Liu*, Xinyi Wu*, **Xuhui Zhou*** and Shane Steinert-Threlkeld
In *Proceedings of EMNLP BlackboxNLP, 2020*

Multilevel Text Alignment with Cross-Document Attention
Xuhui Zhou, Nikolaos Pappas, Noah A. Smith
In *Proceedings of EMNLP, 2020*

Evaluating Commonsense in Pre-trained Language Models
Xuhui Zhou, Yue Zhang, Leyang Cui, Dandan Huang
In *Proceedings of AAAI, 2020*

RPD: A Distance Function Between Word Embeddings
Xuhui Zhou, Zaixiang Zheng, Shujian Huang
In *Proceedings of ACL Student Research Workshop, 2020*

Manuscripts	**Learning to translate by learning to communicate** C.M. Downey, Leo Z. Liu, **Xuhui Zhou**, Shane Steinert-Threlkeld arXiv 2022	
Research Experience	**Machine Intelligence @ Apple** Research Intern Mentors: Sarthak Garg, Shayne Longpre, Joachim Daiber	March 2021–Sep 2021
	Noah's Ark @ University of Washington Research assistant Mentors: Maarten Sap, Swabha Swayamdipta, Nikolaos Pappas	Sep 2019–June 2021
	CLMBR @ University of Washington Research assistant Mentor: Shane Steinert-Threlkeld	Jan 2019–Now
	Text Intelligence Lab @ Westlake University Research assistant Mentor: Yue Zhang	May 2019–Sep 2019
	SUTD NLP @ Singapore University of Technology and Design Research intern Mentor: Yue Zhang	Jun 2018–Aug 2018
	DSS @ University of California, Berkeley Research committee member	Jun 2017–Apr 2018
Technical Skills	*Programming Languages*: Python, C/C++, Java, Bash, R *Machine Learning Toolkits*: PyTorch, Tensorflow, AllenNLP, Hugging Face Transformers and Datasets, scikit-learn	
Service	**Volunteer**: EACL 2021, EMNLP 2020, ACL2020, 2018 Singapore Symposium on NLP **Program Committee & Reviewing**: ACL 2021-2022, NLP4PI 2021	