

Mengzhou Xia

CONTACT INFORMATION	88 College Road Princeton University Princeton, NJ 08540	Phone: +1 (412) 616-5629 E-mail: mengzhou@princeton.edu Links: Webpage
EDUCATION	Princeton University , Princeton <i>Ph.D. Candidate in Computer Science</i> Advisor: Danqi Chen	2020 - Present
	Carnegie Mellon University , Pittsburgh <i>Masters in Computational Data Science at LTI, School of Computer Science</i> Advisor: Graham Neubig	2018 - 2020
	Fudan University ; Shanghai, China <i>Bachelor of Engineering, Software Engineering (Data Science& Technology)</i>	2014 - 2018
RESEARCH EXPERIENCE	Princeton University , Princeton, NJ <i>Graduate Research Assistant</i> (Advisor: Danqi Chen)	Aug 2020 - Present
	I work towards enhancing efficiency for large-scale language models specifically through pruning and ensemble. I am also interested in few-shot learning, with an emphasis on NLP applications.	
	Carnegie Mellon University , Pittsburgh, PA <i>Graduate Research Assistant</i> (Advisor: Graham Neubig)	Aug 2018 - May 2020
	I worked on multilingual learning, with a focus on low-resource machine translation. I also studied how dataset and linguistic properties quantitatively and qualitatively affect task performances.	
	Microsoft Research , Redmond, WA <i>Research Intern</i> (Host: Guoqing Zheng)	May 2020 - Aug 2020
	I worked on training specialized model sub-components hierarchically with meta-learning on multilingual NLP tasks including sequence labeling, sentence classification and QA.	
	Tencent AI Lab , Shenzhen, China <i>Research Intern</i> (Host: Lemao Liu)	March 2018 - August 2018
INDUSTRY EXPERIENCE	Google , Shanghai, China <i>Software Engineering Intern</i>	July 2017 - September 2017
	Built classification models low-quality human translated texts in Google Localization Pipeline.	
	Google , Shanghai, China <i>Engineering Practicum Intern</i>	July 2016 - September 2016
	Built a one-stop self-service tool to automate manual signal manipulation process.	
PUBLICATIONS	Mengzhou Xia , Guoqing Zheng, Subhabrata Mukherjee, Ahmed Hassan Awadallah. “ Meta-learning Feature Transformations for Cross-lingual Transfer Learning ” Preprint	
	Mengzhou Xia , Antonios Anastasopoulos, Ruochen Xu, Yiming Yang, Graham Neubig. “ Predicting Performance for Natural Language Processing Tasks ” The 58 th Annual Meeting of the Association for Computational Linguistics (ACL 2020)	[Blog] , [PDF]

Mengzhou Xia, Anjalie Field, Yulia Tsvetkov. “**Demoting Racial Bias in Hate Speech Detection**” The 8th International Workshop on Natural Language Processing for Social Media (**SocialNLP Workshop @ACL 2020**) [\[PDF\]](#)

Mengzhou Xia, Xiang Kong, Antonios Anastasopoulos, Graham Neubig. “**Generalized Data Augmentation for Low-Resource Translation**” The 57th Annual Meeting of the Association for Computational Linguistics (**ACL 2019**) [\[PDF\]](#)

Junjie Hu, **Mengzhou Xia**, Graham Neubig, Jaime Carbonell. “**Domain Adaptation of Neural Machine Translation by Lexicon Induction**” The 57th Annual Meeting of the Association for Computational Linguistics (**ACL 2019**) [\[PDF\]](#)

Yu-Hsiang Lin, Chian-Yu Chen, Jean Lee, Zirui Li, Yuyan Zhang, **Mengzhou Xia**, Shruti Rijhwani, Junxian He, Zhisong Zhang, Xuezhe Ma, Antonios Anastasopoulos, Patrick Littell, Graham Neubig. “**Choosing Transfer Languages for Cross-Lingual Learning**” Proceedings of 10th International AAAI Conference on Web and Social Medial (**ACL 2019**) [\[PDF\]](#)

Mengzhou Xia, Guoping Huang, Lema Liu, Shuming Shi. “**Graph based Translation Memory for Neural Machine Translation**” The Thirty-Third AAAI Conference on Artificial Intelligence (**AAAI 2019**) [\[PDF\]](#)

TEACHING **Machine Translation and Sequence-to-sequence Models 11-731**, CMU Fall 2019

PROFESSIONAL SERVICES Reviewer for AAAI 2021, EMNLP 2020