

Qing Lyu

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RESEARCH INTERESTS	Natural Language Processing, Computational Linguistics, Interpretability, Robustness, Probing Language Models	
EDUCATION	University of Pennsylvania, Philadelphia, USA	Aug 2019 – Present
	Ph.D. Computer and Information Science	GPA: 4.00/4.00
	Advisor: Chris Callison-Burch	
	Tsinghua University, Beijing, China	Sept 2015 – Dec 2018
	B.A. English Language and Literature (Linguistics track)	GPA: 3.88/4.00
	Advisor: Xiaojing Bai	
PUBLICATIONS AND MANUSCRIPTS	[8] Q. Lyu , H. Zheng, D. Li, L. Zhang, M. Apidianaki, C. Callison-Burch. <i>Is "my favorite new movie" my favorite movie? Probing the Understanding of Recursive Noun Phrases</i> . In submission.	
	[7] S. Zhou*, L. Zhang*, Q. Lyu , Y. Yang, G. Neubig and C. Callison-Burch. <i>Show Me More Details: Discovering Event Hierarchies from WikiHow</i> . (*Equal contribution) In submission.	
	[6] Y. Yang, A. Panagopoulou, Q. Lyu , L. Zhang, M. Yatskar and C. Callison-Burch. <i>Visual Goal-Step Inference using wikiHow</i> . In EMNLP 2021 ; presented at the 2nd Workshop on Advances in Language and Vision Research at NAACL 2021.	
	[5] Q. Lyu , H. Zhang, E. Sulem, D. Roth. <i>Zero-shot Event Extraction via Transfer Learning: Challenges and Insights</i> . In ACL 2021 .	
	[4] Q. Lyu* , L. Zhang* and C. Callison-Burch. <i>Goal-Oriented Script Construction</i> . (*Equal contribution) In INLG 2021 .	
	[3] H. Wen, Y. Lin, T. Lai, X. Pan, S. Li, X. Lin, B. Zhou, M. Li, H. Wang, H. Zhang, X. Yu, A. Dong, Z. Wang, Y. Fung, P. Mishra, Q. Lyu , D. Surís, B. Chen, Susan W. Brown, M. Palmer, C. Callison-Burch, C. Vondrick, J. Han, D. Roth, S-F. Chang, H. Ji. <i>RESIN: A Dockerized Schema-Guided Cross-document Cross-lingual Cross-media Information Extraction and Event Tracking System</i> . In NAACL 2021 (demo track).	
	[2] L. Zhang, Q. Lyu and C. Callison-Burch. <i>Intent Detection with WikiHow</i> . In AAACL-IJCNLP 2020 .	
	[1] L. Zhang*, Q. Lyu* , and C. Callison-Burch. <i>Reasoning about Goals, Steps, and Temporal Ordering with WikiHow</i> . (*Equal contribution) In EMNLP 2020 ; Spotlight presentation at the Workshop on Enormous Language Models at ICLR 2021.	
SERVICES	• Reviewer for the Beyond the Imitation Game Benchmark (BIG-Bench) initiated by Google Research	2021
	• Co-organizer of CLUNCH , Penn's NLP seminar series University of Pennsylvania	2020
TEACHING EXPERIENCE	• Teaching Assistant — Computational Linguistics CIS 530: graduate level	Fall 2021 University of Pennsylvania
	• Teaching Assistant — Applied Machine Learning	Fall 2019

CIS 419/519: undergraduate/graduate level	University of Pennsylvania
• Teaching Assistant — Computational Linguistics	Fall 2018
undergraduate level	Tsinghua University

INDUSTRY EXPERIENCE	Algorithm Intern	Sept 2018 – Oct 2018
	<i>Tomorrow Advancing Life (TAL) Education Group, AI Lab</i> <div>Beijing, China</div> <ul style="list-style-type: none"> Developed a model to predict the dropout rate of individual students in online courses, based on Linear Dynamical Systems (LDS). Our model improved the dropout prediction F1 score by 20% over the existing system, and was officially launched as part of the online teaching platform. Gave a public talk on BERT and the attention mechanism in the paper sharing group, attended by the language, speech, and vision teams. 	

COURSES	Graduate	
	Operating Systems (A+), Fundamentals of Linear Algebra and Optimization (A+), Theory of Computation (A), PhD Independent Study (A+)	
	Undergraduate	
	Computational Linguistics (A-), Applied Machine Learning (A+), Computational Modeling of Biological Signals and Systems(A), Probability and Statistics (A-), Data Structures (A), Principal and Application of Database (A), Language Acquisition (A-), Psycholinguistics (A-), Language and Cognition (A), Introduction to Formal Pragmatics (A-), Introduction to Formal Semantics (A-), Introduction to Syntax (A), Introduction to Linguistics (A)	

HONORS	Excellent Graduation Thesis Award, Tsinghua University	2019
	National Scholarship, Chinese Ministries of Education and Finance	2018
	3rd Place at “Sentiment analysis of Chinese Metaphor”, Shared Task at the 17th China National Conference on Computational Linguistics (CCL 2018)	2018
	Jiang Nanxiang Scholarship, Tsinghua University	2017
	Merit-based Scholarship of all school years, Tsinghua University	2015 – 2019
	First Prize (Individual Contest), National Linguistics Olympiad (NOL)	2014

SKILLS	Programming Skills
	Python, PyTorch, C/C++, SQL, MATLAB
	Language Skills
	Chinese (native), English (proficient), French (conversational)

TEST SCORES	GRE (2018): Verbal 168, Quantitative 170, Analytical Writing 4.0
	TOEFL (2018): Reading 30, Listening 30, Speaking 29, Writing 30