

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 |

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

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| 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. | |

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| 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) | |

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| 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 | 2018 |
| | Jiang Nanxiang Scholarship, Tsinghua University | 2017 |
| | Merit-based Scholarship of all school years, Tsinghua University | 2015 – 2019 |
| | Individual Contest First Prize, National Linguistics Olympiad (NOL) | 2014 |

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

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