

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 and Marianna Apidianaki

Tsinghua University, Beijing, China

Sept 2015 – Jul 2019

B.A. English Language and Literature (Linguistics track)

GPA: 3.88/4.00

Advisor: Xiaojing Bai

PUBLICATIONS AND MANUSCRIPTS

[9] **Q. Lyu**, H. Zheng, D. Li, L. Zhang, M. Apidianaki, C. Callison-Burch. *Is "my favorite new movie" my favorite movie? Probing the Understanding of Recursive Noun Phrases*. In **NAACL 2022**.

[8] X. Du, Z. Zhang, S. Li, P. Yu, H. Wang, T. Lai, X. Lin, Z. Wang, I. Liu, B. Zhou, H. Wen, M. Li, D. Hannan, J. Lei, H. Kim, R. Dror, H. Wang, M. Regan, Q. Zeng, **Q. Lyu**, C. Yu, C. Edwards, X. Jin, Y. Jiao, G. Kazeminejad, Z. Wang, C. Callison-Burch, M. Bansal, C. Vondrick, J. Han, D. Roth, S. Chang, M. Palmer, H. Ji. *RESIN-11: Schema-guided Event Prediction for 11 Newsworthy Scenarios*. In submission.

[7] S. Zhou*, L. Zhang*, Y. Yang, **Q. Lyu**, G. Neubig, C. Callison-Burch. *Show Me More Details: Discovering Event Hierarchies from WikiHow*. (*Equal contribution) In **ACL 2022**.

[6] Y. Yang, A. Panagopoulou, **Q. Lyu**, L. Zhang, M. Yatskar, C. Callison-Burch. *Visual Goal-Step Inference using wikiHow*. In **EMNLP 2021**.

[5] **Q. Lyu**, H. Zhang, E. Sulem, D. Roth. *Zero-shot Event Extraction via Transfer Learning: Challenges and Insights*. In **ACL 2021**.

[4] **Q. Lyu***, L. Zhang*, C. Callison-Burch. *Goal-Oriented Script Construction*. (*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. *RESIN: A Dockerized Schema-Guided Cross-document Cross-lingual Cross-media Information Extraction and Event Tracking System*. In **NAACL 2021** (demo track).

[2] L. Zhang, **Q. Lyu**, C. Callison-Burch. *Intent Detection with WikiHow*. In **AAACL-IJCNLP 2020**.

[1] L. Zhang*, **Q. Lyu***, C. Callison-Burch. *Reasoning about Goals, Steps, and Temporal Ordering with WikiHow*. (*Equal contribution) In **EMNLP 2020**; Spotlight presentation at the Workshop on Enormous Language Models at ICLR 2021.

SERVICES

• **Program Committee member** of the 9th Mid-Atlantic Student Colloquium on Speech, Language and Learning (MASC-SLL)

2022

- **Reviewer** for ACL Rolling Review (ARR) 2022 -
- **Reviewer** for the Beyond the Imitation Game Benchmark (BIG-BENCH), 2021
initiated by Google Research
- **Co-organizer** of CLUNCH, Penn's NLP seminar series 2020

TEACHING EXPERIENCE

- **Teaching Assistant — Computational Linguistics** Fall 2021
CIS 530: graduate level 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

- Research Intern** May 2022 – Aug 2022
Tencent, AI Lab Seattle, USA
- Project TBD.

- Algorithm Intern** Sept 2018 – Oct 2018
Tomorrow Advancing Life (TAL) Education Group, AI Lab Beijing, China
- 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.

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