

Weiqli You

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🌐 <http://fallcat.github.io/>

Last updated: Aug. 6, 2025

Research Interests

I build trustworthy machine learning models by designing them with faithful, verifiable explanations. My work connects directly with domain experts in fields like cosmology and surgery to create benchmarks that ensure these models are not just technically sound but genuinely useful for real-world challenges.

Education

- 2020 – **Ph.D. Computer and Information Science, University of Pennsylvania**, Philadelphia, PA
Advisor: Eric Wong
Expected Graduation: May. 2026
- 2018 – 2020 **M.S. Computer Science, University of Massachusetts Amherst**, Amherst, MA
Advisor: Mohit Iyyer
- 2014 – 2018 **B.S. Computer Science and Mathematics, Gordon College**, Wenham, MA
Advisor: Jonathan Senning, Russell Bjork
Double major. Honors Thesis title: *Predict Media Interestingness*.

Internship & Employment History

- 2025 **Meta (Bellevue, WA) Software Engineering Machine Learning Intern**
Working on creating an internal benchmark for evaluating LLM agents' ability in assisting ML engineers in the Ads ML lifecycle.
- 2024 **Okinawa Institute of Science and Technology (Okinawa, Japan) Visiting Research Student**
Worked on developing faster feature attribution methods that correlate with leave-one-out.
- 2022 **IBM Research (Yorktown Heights, NY) Research Intern**
Worked on developing a two-stage training pipeline to augment cyber threat intelligence attack models with auxiliary data.
- 2020 **University of Southern California, ISI (Los Angeles, CA | Remote) Research Assistant**
Worked on analyzing supervised and unsupervised neural machine translation.
- 2018 **Meituan-Dianping Inc, NLP Center (Beijing, China) Research Intern**
Worked on keyword extraction in delivery data.

Publications

Preprints (* indicates equal contribution)

- 1 **Weiqli You**, Anton Xue, Shreya Havaladar, Delip Rao, Helen Jin, Chris Callison-Burch, and Eric Wong (2025). *Probabilistic Soundness Guarantees in LLM Reasoning Chains*. arXiv: 2507.12948 [cs.LG]. [🔗 URL: https://arxiv.org/abs/2507.12948](https://arxiv.org/abs/2507.12948).
- 2 Delip Rao*, **Weiqli You***, Eric Wong, and Chris Callison-Burch (2025). *NSF-SciFy: Mining the NSF Awards Database for Scientific Claims*. arXiv: 2503.08600 [cs.CL]. [🔗 URL: https://arxiv.org/abs/2503.08600](https://arxiv.org/abs/2503.08600).
- 3 Helen Jin*, Anton Xue*, **Weiqli You**, Surbhi Goel, and Eric Wong (2025). *Probabilistic Stability Guarantees for Feature Attributions*. arXiv: 2504.13787 [cs.LG]. [🔗 URL: https://arxiv.org/abs/2504.13787](https://arxiv.org/abs/2504.13787).

Selected Publications (* indicates equal contribution)

- 1 **Weiqiu You**, Helen Qu, Marco Gatti, Bhuvnesh Jain, and Eric Wong (2025). “Sum-of-Parts: Self-Attributing Neural Networks with End-to-End Learning of Feature Groups”. In: *International Conference on Machine Learning (ICML)*. [URL: https://openreview.net/forum?id=r6y9TEdLMh](https://openreview.net/forum?id=r6y9TEdLMh).
- 2 Helen Jin*, Shreya Havaladar*, Chaehyeon Kim*, Anton Xue*, **Weiqiu You***, Helen Qu, Marco Gatti, Daniel A Hashimoto, Bhuvnesh Jain, Amin Madani, Masao Sako, Lyle Ungar, and Eric Wong (2025). “The FIX Benchmark: Extracting Features Interpretable to eXperts”. In: *Journal of Data-centric Machine Learning Research (DMLR)*. [URL: https://openreview.net/forum?id=BJnusBahD3](https://openreview.net/forum?id=BJnusBahD3).
- 3 Chaehyeon Kim, **Weiqiu You**, Shreya Havaladar, and Eric Wong (2024). “Evaluating Groups of Features via Consistency, Contiguity, and Stability”. In: *The Second Tiny Papers Track at ICLR 2024*. [URL: https://openreview.net/forum?id=IP2etbIEuC](https://openreview.net/forum?id=IP2etbIEuC).
- 4 Shreya Havaladar*, **Weiqiu You***, Lyle Ungar, and Eric Wong (2023). “Visual Topics via Visual Vocabularies”. In: *XAI in Action: Past, Present, and Future Applications*. [URL: https://openreview.net/forum?id=h60T5pztGc](https://openreview.net/forum?id=h60T5pztGc).
- 5 **Weiqiu You***, Simeng Sun*, and Mohit Iyyer (July 2020). “Hard-Coded Gaussian Attention for Neural Machine Translation”. In: *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics*. Online: Association for Computational Linguistics, pp. 7689–7700. [DOI: 10.18653/v1/2020.acl-main.687](https://doi.org/10.18653/v1/2020.acl-main.687).

Teaching Experience

2021	▶ Computational Linguistics UPenn CIS530, Teaching Assistant, Spring 2021, Fall 2021
Spring 2020	▶ Advanced Natural Language Processing UMass COMPSCI685, Grader
Spring 2018	▶ Data Structures and Algorithms Gordon CPS222, Teaching Assistant
Spring 2017	▶ Calculus II Gordon MAT122, Teaching Assistant
Fall 2016	▶ Differential Equations Gordon MAT225, Teaching Assistant
2016 – 2018	▶ Biostatistics Gordon, SPSS Help Session Tutor
	▶ Calculus Gordon, Tutor

Invitations

2024	▶ Panalist Women in CS Panel, Computers and Society class. Gordon College, MA.
	▶ Speaker Artificial Intelligence Week Alumni Forum. High School Affiliated to Renmin University of China, Beijing, China.
2022	▶ Panalist Women in CS Panel, Computers and Society class. Gordon College, MA.

Awards

- 2024 ▶ **AWS-AI ASSET Fellow.**
- 2018 ▶ **Gordon College Honors Thesis.**
 - ▶ **Summa Cum Laude.**

Academic Services

- 2025 ▶ **ACL Rolling Review.**
Reviewer.
- ▶ **ICML.**
Reviewer.
- 2024 ▶ **ICLR.**
Reviewer.
- 2022 – 2023 ▶ **ACL Rolling Review.**
Reviewer.
- 2023 ▶ **ACL.**
Reviewer.
- 2022 ▶ **CLunch, a weekly NLP research seminar run by PennNLP.**
Organizer
- 2021 – 2023 ▶ **EMNLP.**
Reviewer.