

Eunsol CHOI

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EMPLOYMENT

August 2020-Now	Assistant Professor in the Department of Computer Science, The University of Texas at Austin
Sep 2019 - Aug 2020, 2022	Visiting Faculty Researcher, Google AI NY
Spring 2016	Research Intern, Google Mountain View
Summer 2014	Research Intern, University of Southern California
Summer 2012	Engineering Intern, Bloomberg
Fall 2010	Engineering Intern, Sentrana

EDUCATION

2019	Ph. D in Computer Science and Engineering, University of Washington Learning to Understand Entities in Text, Thesis Advisor: Luke Zettlemoyer, Yejin Choi
2012	Bachelor of Arts in Computer Science and Mathematics (both with distinction), Cornell University

PREPRINTS

Crafting In-context Examples according to LMs' Parametric Knowledge Yoonsang Lee*, Pranav Atreya*, Xi Ye, Eunsol Choi pdf	ARXIV, 2023
Clarify When Necessary: Resolving Ambiguity Through Interaction with LMs Michael J.Q Zhang, Eunsol Choi pdf	ARXIV, 2023
RECOMP: Improving Retrieval-Augmented LMs with Compression and Selective Augmentation Fangyuan Xu, Weijia Shi, Eunsol Choi pdf	ARXIV, 2023
Understanding Retrieval Augmentation for Long form Question Answering Hung-Ting Chen, Fangyuan Xu*, Shane Arora*, Eunsol Choi pdf	ARXIV, 2023
Complex Claim Verification with Evidence Retrieved in the Wild Jifan Chen, Grace Kim, Aniruddh Sriram, Greg Durrett, Eunsol Choi pdf	ARXIV, 2023
Unit-based Speech-to-Speech Translation Without Parallel Data Anuj Diwan, Anirudh Srinivasan, David Harwath, Eunsol Choi pdf	ARXIV, 2023

CONFERENCE / JOURNAL PUBLICATIONS

Mitigating Temporal Misalignment by Discarding Outdated Facts Michael J.Q. Zhang, Eunsol Choi pdf	EMNLP, 2023
Continually Improving Extractive QA via Human Feedback Ge Gao*, Hung-ting Chen*, Yoav Artzi, Eunsol Choi pdf	EMNLP, 2023
Propagating Knowledge Updates to LMs Through Distillation hankar Padmanabhan, Yasumasa Onoe, Michael J.Q. Zhang, Greg Durrett, Eunsol Choi pdf	NEURIPS, 2023
A Critical Evaluation of Evaluations for Long-form Question Answering Fangyuan Xu*, Yixiao Song*, Mohit Iyyer, Eunsol Choi pdf	ACL, 2023
Can LMs Learn New Entities from Descriptions? Challenges in Propagating Injected Knowledge Yasumasa Onoe, Michael J.Q Zhang, Shankar Padmanabhan, Greg Durrett, Eunsol Choi pdf	ACL, 2023
Concise Answers to Complex Questions: Summarization of Long-Form Answers Abhilash C. Potluri*, Fangyuan Xu*, Eunsol Choi pdf	ACL, 2023
When to Use Efficient Self Attention? Profiling Text, Speech and Image Transformer Variants Anuj Diwan, Eunsol Choi, David Harwath pdf	ACL (SHORT), 2023

Quantifying Train-Evaluation Overlap with Nearest Neighbors

FINDINGS OF ACL, 2023

Gauri Kambhatla, Thuy H. Nguyen, Eunsol Choi [pdf](#)

Continual Learning for On-Device Speech Recognition using Disentangled Conformers

ICASSP, 2023

Anuj Diwan, Ching-Feng Yeh, Wei-Ning Hsu, Paden Tomasello, Eunsol Choi, David Harwath, Abdelrahman Mohamed [pdf](#)

Understanding Postpartum Parents' Experiences via Two Digital Platforms

CSCW, 2023

Xuewen Yao, Miriam Mikhelson, Megan Micheletti, Eunsol Choi, S Craig Watkins, Edison Thomaz, Kaya De Barbaro [pdf](#)

Rich Knowledge Sources Bring Complex Knowledge Conflicts: Recalibrating Models to Reflect Conflicting Evidence

EMNLP, 2022

Hung-ting Chen, Michael J.Q. Zhang, Eunsol Choi [pdf](#)

Why is Winoground Hard? Investigating Failures in Visuolinguistic Compositionality

EMNLP, 2022

Anuj Diwan*, Layne Berry*, Eunsol Choi, David Harwath, Kyle Mahowald [pdf](#)

Generating Literal and Implied Subquestions to Fact-check Complex Claims

EMNLP, 2022

Jifan Chen, Aniruddh Sriram, Eunsol Choi, Greg Durrett [pdf](#)

Beyond Counting Datasets: A Survey of Multilingual Dataset Construction and Necessary Resources

FINDINGS OF EMNLP, 2022

Xinyan Velocity Yu*, Akari Asai*, Trina Chatterjee, Junjie Hu, Eunsol Choi [pdf](#)

TyDiP: A Dataset for Politeness Classification in Nine Typologically Diverse Languages

FINDINGS OF EMNLP, 2022

Anirudh Srinivasan, Eunsol Choi [pdf](#)

Modeling Exemplification in Long-form Question Answering via Retrieval

NAACL, 2022

Shufan Wang, Fangyuan Xu, Laure Thompson, Eunsol Choi, Mohit Iyyer [pdf](#)

Entity Cloze By Date: Understanding what LMs know about unseen entities

FINDINGS OF NAACL (SHORT), 2022

Yasumasa Onoe, Michael J.Q. Zhang, Eunsol Choi, Greg Durrett [pdf](#)

How Do We Answer Complex Questions: Discourse Structure of Long-form Answers

ACL, 2022

Fangyuan Xu, Junyi Jessi Li, Eunsol Choi [pdf](#)

Simulating Bandit Learning from User Feedback for Extractive Question Answering

ACL, 2022

Ge Gao, Eunsol Choi, Yoav Artzi [pdf](#)

Misinfo Reaction Frames: Reasoning about Readers' Reactions to News Headlines

ACL, 2022

Saadia Gabriel, Skyler Hallinan, Maarten Sap, Pemi Nguyen, Franziska Roesner, Eunsol Choi, Yejin Choi [pdf](#)

CREAK: A Dataset for Commonsense Reasoning over Entity Knowledge

NEURIPS DATASETS AND BENCHMARK, 2021

Yasumasa Onoe, Michael J.Q. Zhang, Eunsol Choi, Greg Durrett [pdf](#)

SituatedQA: Incorporating Extra-Linguistic Contexts into QA

 OUTSTANDING PAPER EMNLP, 2021

Michael J.Q. Zhang, Eunsol Choi [pdf](#)

Learning with Different Amount of Annotation: From Zero to Many Labels

EMNLP, 2021

Shujian Zhang, Chengyue Gong, Eunsol Choi [pdf](#)

Can NLI Models Verify QA Systems' Predictions?

FINDINGS OF EMNLP, 2021

Jifan Chen, Eunsol Choi, Greg Durrett [pdf](#)

Challenges in Information Seeking QA: Unanswerable Questions and Paragraph Retrieval

ACL, 2021

Akari Asai, Eunsol Choi [pdf](#)

Knowing About Questions Can Help: Improving Calibration in Question Answering

FINDINGS OF ACL, 2021

Shujian Zhang, Chengyue Gong, Eunsol Choi [pdf](#)

NeurIPS 2020 EfficientQA Competition: Systems, Analyses and Lessons Learned

JMLR, 2021

Sewon Min, Jordan Boyd-Graber, Chris Alberti, Danqi Chen, Eunsol Choi, Michael Collins, Kelvin Guu, Hannaneh Hajishirzi, Kenton Lee, Jennimaria Palomaki, Colin Raffel, Adam Roberts, Tom Kwiatkowski, and many workshop participants [pdf](#)

- QED: A Framework and Dataset for Explanations in Question Answering** TACL, 2021
Matthew Lamm, Jennimaria Palomaki, Chris Alberti, Daniel Andor, **Eunsol Choi**, Livio Baldini Soares, Michael Collins [pdf](#)
- XOR QA: Cross-lingual Open-Retrieval Question Answering** NAACL, 2021
Akari Asai, Jungo Kasai, Jonathan H Clark, Kenton Lee, **Eunsol Choi**, Hannaneh Hajishirzi [pdf](#)
- Decontextualization: Making Sentences Stand-Alone** TACL, 2021
Eunsol Choi, Jennimaria Palomaki, Matthew Lamm, Tom Kwiatkowski, Dipanjan Das, Michael Collins [pdf](#)
- Entities as Experts: Sparse Memory Access with Entity Supervision** EMNLP, 2020
Thibault Févry, Livio Baldini Soares, Nicholas FitzGerald, **Eunsol Choi**, Tom Kwiatkowski [pdf](#)
- TYDI QA: A Benchmark for Information-Seeking Question Answering in Typologically Diverse Languages** TACL, 2020
Jonathan H. Clark, **Eunsol Choi**, Michael Collins, Dan Garrette, Tom Kwiatkowski, Vitaly Nikolaev, Jennimaria Palomaki [pdf](#)
- No Permanent Friends or Enemies: Tracking Dynamic Relationships Between Nations from News** NAACL, 2019
Xiaochuang Han, **Eunsol Choi**, Chenhao Tan [pdf](#)
- FlowQA: Grasping Time Flow in Conversational Machine Comprehension** ICLR, 2019
Hsin-Yuan Huang, **Eunsol Choi**, Wen-tau Yih [pdf](#)
- pair2vec: Compositional Word-Pair Embeddings for Cross-Sentence Inference** NAACL, 2019
Mandar Joshi, **Eunsol Choi**, Omer Levy, Dan Weld and Luke Zettlemoyer [pdf](#)
- Question Answering In Context** EMNLP, 2018
Eunsol Choi*, He He*, Mohit Iyyer*, Mark Yatskar*, Percy Liang, Wen-tau Yih, Yejin Choi, Luke Zettlemoyer [pdf](#)
- Neural Metaphor Detection In Context** EMNLP (SHORT), 2018
Ge Gao, **Eunsol Choi**, Yejin Choi, Luke Zettlemoyer [pdf](#)
- Ultra-Fine Entity Typing** ACL, 2018
Eunsol Choi, Omer Levy, Yejin Choi, Luke Zettlemoyer [pdf](#)
- Zero-Shot Relation Extraction via Reading Comprehension** CONLL, 2017
Omer Levy, Minjoon Seo, **Eunsol Choi** and Luke Zettlemoyer [pdf](#)
- Truth of Varying Shades: Analyzing Language in Fake News and Political Fact-Checking** EMNLP (SHORT), 2017
Hannah Rashkin, **Eunsol Choi**, Jin Yea Jang, Svetlana Volkova, Yejin Choi [pdf](#)
- Coarse-to-Fine Question Answering for Long Documents** ACL, 2017
Eunsol Choi, Daniel Hewlett, Jakob Uszkoreit, Illia Polosukhin, Alexandre Lacoste and Jonathan Berant [pdf](#)
- TriviaQA: A Large Scale Distantly Supervised Challenge Dataset for Reading Comprehension** ACL, 2017
Mandar Joshi, **Eunsol Choi**, Dan Weld and Luke Zettlemoyer [pdf](#)
- Document-level Sentiment Inference with Social, Faction, and Discourse Context** ACL, 2016
Eunsol Choi, Hannah Rashkin, Luke Zettlemoyer and Yejin Choi [pdf](#)
- Extracting Structured Scholarly Information from the Machine Translation Literature** LREC, 2016
Eunsol Choi*, Matic Horvat*, Jonathan May, Kevin Knight and Daniel Marcu [pdf](#)
- Scalable Semantic Parsing with Partial Ontologies** ACL, 2015
Eunsol Choi, Tom Kwiatkowski, Luke Zettlemoyer [pdf](#)
- Scaling Semantic Parsers with On-the-fly Ontology Matching** EMNLP, 2013
Tom Kwiatkowski, **Eunsol Choi**, Yoav Artzi, Luke Zettlemoyer [pdf](#)

WORKSHOP PROCEEDINGS

- MIA 2022 Shared Task: Evaluating Cross-lingual Open-Retrieval Question Answering for 16 Diverse Languages** NAACL 2022 WORKSHOP
Akari Asai, S. Longpre, Jungo Kasai, Chia-Hsuan Lee, Rui Zhang, Junjie Hu, Ikuya Yamada, J. Clark, **Eunsol Choi** [pdf](#)

Adam Fisch, Alon Talmor, Robin Jia, Minjoon Seo, **Eunsol Choi**, Danqi Chen [pdf](#)**Hedge detection as a lense on framing in the GMO debates: A position paper** ACL 2012 WORKSHOP ON EXTRA-PROPOSITIONAL ASPECTS OF MEANING IN COMPUTATIONAL LINGUISTICS**Eunsol Choi**, Chenhao Tan, Lillian Lee, Danescu-Niculescu-Mizil, Jennifer Spindel [pdf](#)

ACADEMIC SERVICE

Faculty Recruiting	UT CS-2021, UT Moody College of Journalism 2021
Graduate Student Recruiting	UT CS-2020, UT CS-2023
Turing Scholars Recruiting	UT CS-2022
NSF Panel	December 2021, June 2023
Program Chair	AKBC 2022
Workshop Chair	ACL 2024
Publicity Chair	EMNLP 2022
Workshop Chair	AKBC 2021
Senior Area Chair	(Question Answering) EMNLP 2021, ACL 2023, (Multilinguality) EMNLP 2022
Junior Area Chair	(Question Answering) EMNLP 2019 NAACL 2021, (Semantics - Sentence Level) ACL 2020, (Information Extraction) EMNLP 2020, ICLR 2021-2, (Datasets and Benchmarks) NeurIPS 2021-2, ICML 2023, ICLR 2024
Action Editor	ARR
Standing Reviewer	TACL, TMLR
Reviewer	ACL 2015-8, NAACL 2018, NeurIPS 2018-9, ICML 2020, ICLR 2021, EMNLP 2015-8, *SEM 2018, EACL 2017, NAACL AKBC Workshop 2016, NeurIPS AKBC Workshop 2017, ACL RoboNLP Workshop 2017, ACL Rep4NLP Workshop 2019
Workshop Co-Organizer	Student Research Workshop, NAACL 2016, ACL19
	Workshop on Machine Reading for Question Answering, ACL18, EMNLP19, EMNLP21 website
	EfficientQA Workshop, NeurIPS 2020 website
	Workshop on Multilingual Information Access (MIA), NAACL 2022 website
	Workshop on Multilingual Information Access (MIA), NAACL 2022 website
	Optimism, Pessimism, and Realism of Large Language Models, Korea website
	Emerging Generalization Settings, Simons Institute Workshop 2024 website

STUDENT ADVISING

Ph.D Supervisor	Jifan Chen (co-supervised with Greg Durrett), 2023 → Amazon AWS Yasumasa Onoe (co-supervised with Greg Durrett), 2023, → Google AI
Master's Thesis Advisor	Rishi Salem (co-supervised with David Harwath), 2023 Anirudh Srinivasan, 2023 → Tenstorrent Inc. Hung-Ting Chen, 2023 → UT Austin Ph.D
Undergraduate Advisor	Abhilash C. Potluri, supervisor, 2022 → UIUC Masters Pranav Atreya, supervisor, 2023 → UC Berkeley Ph.D

TEACHING

Fall 2022	UT Austin CS 388: Natural Language Processing (grad) website
Spring 2021-3	UT Austin CS 378: Natural Language Processing (undergrad) website
Fall 2020,3	UT Austin CS 395T: Topics in Natural Language Processing website
June 2023	High School Summer Camp at UT CS, Academy for All, Academy for Women website

INVITED TALK

Semantic parsing with Freebase: a very large, yet wildly incomplete knowledge base	NAACL 2016, Human-Computer QA Workshop	
Scaling up Reading Comprehension	Nov 2017, Stanford NLP Seminar, Salesforce Research	website
Contextual Machine Reading	Sept 2018, Ohio State University, Heidelberg University	website
Scalable and Interactive Machine Reading	Nov 2018, Seoul National University	website
Learning to Understand Entities in Text	Jan-Apr 2019, KAIST, UIUC, FAIR, Google, UBC, U of Waterloo, Georgia Tech, UT Austin, UNC, UC Irvine, USC, Yale, EPFL, UMass Amherst, CU Boulder	
Learning to Understand Language In Context	Aug. 20, Seoul National University, Google India AI Summer Camp, EMNLP Workshop on Computational Approaches to Discourse	
Addressing Information Seeking Queries	Feb 2021, UC Santa Barabara, Johns Hopkins NLP Seminar	slides
Context for Interpreting Benchmark Performances	Aug 2021, ACL Workshop on Benchmarking: Past, Present and Future	youtube
Addressing Information Seeking Queries: From Finding to Presenting Answers	Aug 2021, Seoul National University	
Incorporating extra-linguistic contexts and entity knowledge into natural language processing	Oct 2021, The 2nd Workshop on Unstructured and Structured KBs	website
How Machines Understand Text and Where They Fail	Dec 2021, Ewha Womans University	
Information Seeking Language Understanding in a Dynamic World	May 2022, Stanford NLP seminar, Rice University, ACL Spotlight Talks for Young Rising Stars	link youtube
Knowledge-rich NLP models in a dynamic real world	Nov 2022, EvoNLP workshop EMNLP 2022, UW, AI2, UT MLL Research Symposium	
Adapting Language Models to Dynamic World	May 2023, University of Maryland, Johns Hopkins University, UMass Amherst	slides
Keynote at Korean Artificial Intelligence Graduate School Council Symposium	Aug 2023, Seoul	
Knowledge Augmentation for Language Models	Sept 2023, Bar Ilan University, Tel Aviv University, KUIS AI talk series	youtube
Knowledge Augmentation for Language Models	Nov 2023, Cornell Tech, NYU	slides

AWARDS / HONORS

Spotlight Talks for Young Rising Stars - ACL	2022
Outstanding Paper Award - EMNLP	2021
AAAI New Faculty Highlights	2021
Participant, Heidelberg Laureate Forum	2019
Facebook (Meta) Graduate Research Fellowship	2018-2019
Rising Stars in EECS Workshop	2017
Honorable Mention, CRA Outstanding Undergraduate Research Award	2011

GRANTS

Research grant	NSF, RI: Medium: Multilingual Long-form QA with Retrieval-Augmented Language Models, 2023 (Co-PI: Mohit Iyyer), \$1.2M Gift, Question Answering over Heterogenous Data Sources, Home Depot, 2022-3, \$60K Open Philanthropy, 2022 (Co-PI: Greg Durrett, Raymond Mooney), \$432K total UT Machine Learning Laboratory 2021/2 (solo), 2022/3 (Co-PI: David Harwath), \$60K each Google Research Award, Answering information seeking questions in the wild, 2021, \$60K UT Good Systems (Tier II) 2020 Co-PI: Kaya de Barbaro, Craig Watkins, James Pennebaker, \$98K total
Sponsored Research	CISCO, Cascaded QA Model for Efficient Inference, 2023-4, \$200K Sony AI, Externalizing and Internalizing Knowledge in Large Language Models, 2023 (Co-PI: Greg Durrett), \$100K total