Eunsol CHOI

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JOB

Now August 2020	Assistant Professor in the Department of Computer Science, THE UNIVERSITY OF TEXAS AT AUSTIN, USA

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

Mitigating Temporal Misalignment by Discarding Outdated Facts ARXIV, 2023
Michael J.Q. Zhang, Eunsol Choi [pdf]

Complex Claim Verification with Evidence Retrieved in the Wild ARXIV, 2023
Jifan Chen, Grace Kim, Aniruddh Sriram, Greg Durrett, Eunsol Choi [pdf]

Continually Improving Extractive QA via Human Feedback ARXIV, 2023
Ge Gao*, Hung-ting Chen*, Yoav Artzi, Eunsol Choi [pdf]

Unit-based Speech-to-Speech Translation Without Parallel Data ARXIV, 2023
Anuj Diwan, Anirudh Srinivasan, David Harwath, Eunsol Choi [pdf]

Propagating Knowledge Updates to LMs Through Distillation ARXIV, 2023
hankar Padmanabhan, Yasumasa Onoe, Michael J.Q. Zhang, Greg Durrett, Eunsol Choi [pdf]

CONFERENCE / JOURNAL PUBLICATIONS

A Critical Evaluation of Evaluations for Long-form Question Answering ACL, 2023
Fangyuan Xu*, Yixiao Song*, Mohit Iyyer, Eunsol Choi [pdf]

Can LMs Learn New Entities from Descriptions? Challenges in Propagating Injected Knowledge ACL, 2023
Yasumasa Onoe, Michael J.Q Zhang, Shankar Padmanabhan, Greg Durrett, Eunsol Choi [pdf]

Concise Answers to Complex Questions: Summarization of Long-Form Answers ACL, 2023
Abhilash C. Potluri*, Fangyuan Xu*, Eunsol Choi [pdf]

When to Use Efficient Self Attention? Profiling Text, Speech and Image Transformer Variants ACL (SHORT), 2023
Anuj Diwan, Eunsol Choi, David Harwath [pdf]

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]

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]

Modeling Exemplification in Long-form Question Answering via Retrieval NAACL, 2022
Shufan Wang, Fangyuan Xu, Laure Thompson, **Eunsol Choi**, Mohit Iyyer [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 Reasoningover 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, Svitlana 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]

MRQA 2019 Shared Task: Evaluating Generalization in Reading Comprehension — EMNLP 2019 WORKSHOP
Adam Fisch, Alon Talmor, Robin Jia, Minjoon Seo, **Eunsol Choi**, Danqi Chen [pdf]

Hedge detection as a lens 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
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
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	Student Research Workshop, NAACL 2016, ACL19
Co-Organizer	Workshop on Machine Reading for Question Answering, ACL18, EMNLP19, EMNLP21 [website]
	EfficientQA Workshop, NeurIPS 2020 [website]
	Workshop on Multilingual Information Access (MIA), NAACL 2021 [website]

Outreach Service

Instructor	Academy for All, (High School Outreach) June 2023

Experiences

Visiting Faculty Researcher	Google AI NY, Sep 2019 - Aug 2020, 2022
Research Intern	Google Mountain View, Spring 2016
Research Intern	University of Southern California, Summer 2014
Engineering Intern	Bloomberg, Summer 2012
Engineering Intern	Sentrana, Fall 2010

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 Committee	Rishi Salem (co-supervised with David Harwath), 2023 →
	Anirudh Srinivasan, 2023 → Tenstorrent Inc.
	Hung-Ting Chen, 2023 → UT Austin Ph.D
Undergraduate Thesis Committee	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]

INVITED RESEARCH PRESENTATIONS

Semantic parsing with Freebase: a very large, yet wildly incomplete knowledge base

NAACL 2016, HUMAN-COMPUTER QA WORKSHOP [website]

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 (job talk)

AUG. 2020, SEOUL NATIONAL UNIVERSITY
AI SUMMER SCHOOL, GOOGLE INDIA AI SUMMER CAMP, 1ST WORKSHOP ON COMPUTATIONAL APPROACHES TO DISCOURSE AT EMNLP 2020

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 [slides]

Adapting Language Models to Dynamic World

MAY 2023, UNIVERSITY OF MARYLAND, JOHNS HOPKINS UNIVERSITY, UMASS AMHERST [slides]

AWARDS / HONORS

Spotlight Talks for Young Rising Stars - ACL	2022
Outstanding Paper Award - EMNLP	2021
AAAI New Faculty Highlights	2021
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
Research grant	Sony AI, 2023 (Co-PI: Greg Durrett), $100K total
Sponsored Research	CISCO, 2023-4, $200K
Research grant	Home Depot, 2022-3, $60K
Research grant	Open Philanthropy, 2022 (Co-PI: Greg Durrett, Raymond Mooney), $432K total
Research grant	Machine Learning Laboratory 2021/2 (solo), 2022/3 (Co-PI: David Harwath), $60K each
Research grant	Answering information seeking questions in the wild, Google Research Award, 2021, $60K
Research grant	UT Good Systems (Tier II) 2020 Co-PI: Kaya de Barbaro, Craig Watkins, James Pennebaker, $98K total