Tiwa Eisape

Machine learning, Natural Language Processing, Cognitive Science te1187@princeton.edu | https://eisa.pe

	Academic Positions
2025 -	Postdoctoral Researcher, Princeton University
	Advisors: Tom Griffiths, Adele Goldberg
2022 - 2025	Student Board Member, Cognitive Science Society
	Education
2025	Ph.D, Cognitive Science, MIT
	Advisors: Roger Levy, Yoon Kim
2019	B.S, Computer Science with Minor in Philosophy, Boston College
	Advisors: Joshua Hartshorne, Stefano Anzellotti
	Research Positions
2024	FAIR Labs (Meta AI), Research Scientist Intern
2024	Supervisors: Adina Williams, Karen Ullrich
2023	Google AI, Student Researcher
	Supervisors: Tal Linzen, Fei Sha
2019	Vimeo Machine Learning, Research Scientist Intern
	Honors & Awards
2025	
2025	Presidential Postdoctoral Fellowship (Princeton)
2021	Graduate Research Fellowship (NSF)
2019	GEM Full Fellowship (InterActiveCorp/GEM Consortium)
2016	Ronald E. McNair Scholarship (TRIO)
2019	Dean of Sciences Fellowship (MIT)
2019	Presidential Fellowship (MIT)
	awarded & declined
2019	Matthew R. Copithorne Scholarship (Boston College)
2021	Walle Nauta Teaching Award (MIT)

Order of the Cross and Crown (Boston College)

2019

2022 - 2023	Advising Jesus Crespo, MIT,M.Eng '23, Computation and Cognition, MIT Head-Seeking RNNGs: On the Relationship between Top-down Prediction and Evidence
	Integration in Parsing.
2023	Zhe Su, Machine Learning (CMU)
2022 - 2023	Vineet Gangireddy, Applied Mathematics (Harvard): A Computational Approach to
2022	Recontextualization in Human Reading Behavior. Nicole Wong, Computer Science (MIT)
2022	Heidi Lei, Mathematics (MIT)
2021	Vinh Le, Computation and Cognition (MIT)
2020	Robert Chen, Computer Science (MIT)
2020	Carl Joshua Quines, Mathematics (MIT)
	Professional Service
2024	Founding Organizer of the Graduate Student Steering Committee of the Cognitive Science Society
2022 -	Diversity & Inclusion Committee, Cognitive Science Society
2022 -	Membership Committee, Cognitive Science Society
2022	Organizer, MIT CompLang
2019	Organizer, Vimeo Machine Learning seminar
2021	Technical Session Chair, Conference of the Cognitive Science Society
2020 -	Diversity Ambassador, Office of Graduate Education (MIT)
2022	MIT Summer Research Program Mentor, Office of Graduate Education (MIT)
2020	Reviewer, DataKind/Data.org Inclusive Growth & Recovery Challenge
2017	Tutor, Resilient Coders
2018	Preceptor, Options Through Education (Boston College)
2017	Council Member, PULSE Program for Service Learning (Boston College)
	Reviewing (journals): OpenMind ('21, '23)
	Reviewing (conferences): CogSci ('20, '21, '23, '24)
	Talks
2024	Brain & AI (PI: Jean Remi-King), Meta AI
2024	Reasoning, Attention, & Memory group (PI: Jason Weston), Meta AI
2023	Stanford NLP Seminar, Stanford How Con Findings shout the Proin Improve Al Systems workshop ICLP
2021 2021	How Can Findings about the Brain Improve AI Systems workshop, ICLR Wehbe Lab, Carnegie Mellon University
2021	EdinburghNLP, The University of Edinburgh
2021	Psycholinguistics Coffee, The University of Edinburgh

Teaching

Graduate courses

(Spring) 2021	Teaching Assistant, Cognitive Science (MIT)
(Fall) 2020	Teaching Assistant, Computational Cognitive Science (MIT)
(Fall) 2018	Teaching Assistant, Computational Models of Cognition (Boston College)
	Undergraduate courses
(Fall) 2018	Teaching Assistant, Data Mining (Boston College)
(Spring) 2019	Teaching Assistant, Algorithms (Boston College)
(Spring) 2018	Teaching Assistant, Computer Science I (Boston College)
(Spring) 2018	Teaching Assistant, Personal and Social Responsibility (Boston College)
(Fall) 2018	Teaching Assistant, Personal and Social Responsibility (Boston College)
(Fall) 2017	Teaching Assistant, Personal and Social Responsibility (Boston College)

Publications

Undergraduate and Master's Advisees are underlined

Thesis

Eisape, T. (2025). Language Comprehension, Production, and Reasoning in Humans and Neural Language Models. Massachusetts Institute of Technology.

Papers

Eisape, T., Tessler, M., Dasgupta, I., Sha, F., Steenkiste, S., & Linzen, T. (2024). A Systematic Comparison of Syllogistic Reasoning in Humans and Language Models. NAACL.

Zhou, X., Su, Z., Eisape, T., Kim, H., & Sap, M. (2024). Is this the real life? Is this just fantasy? The Misleading Success of Simulating Social Interactions With LLMs. EMNLP.

Eisape, T., Gangireddy, V., Levy, R. & Kim, Y. (2022). Probing for Incremental Parse States in Autoregressive Language Models. EMNLP.

Liu, Z., **Eisape, T.**, Prud'hommeaux, E., & Hartshorne, J. (2022). Data-driven Crosslinguistic Syntactic Transfer in Second Language Learning. CogSci.

Tucker, M., **Eisape, T.**, Qian, P., Levy, R., & Shah, J. (2022). When Does Syntax Mediate Neural Language Model Performance? Evidence from Dropout Probes. NAACL.

Chen, R., Levy, R., & **Eisape, T.**(2021). On Factors Influencing Typing Time: Insights from a Viral Online Typing Game. CogSci/HSP.

Eisape, T., Zaslavsky, N., & Levy, R. (2020). Cloze Distillation: Improving Neural Language Models with Human Next-Word Predictions. CoNLL.

Eisape, T., Levy, R., Tenenbaum, J., & Zaslavsky, N. (2020). Toward human-like object naming in artificial neural systems. Bridging AI and Cognitive Science workshop, ICLR.

Abstracts & Preprints

Eisape, T., Merrill, W., Diet z, S., & Hartshorne, J. (2020). Grammatical Accents: Using Machine Learning to Quantify Language Transfer. CogSci/HSP.

Eisape, T., Grasso, S., Kurt, L., Lim, C., & Hartshorne, J. (2022). Replication of Conway and Christiansen (2005) Modality-Constrained Statistical Learning of Tactile, Visual, and Auditory Sequences.

Choong, H., **Eisape, T.**, ... & Hartshorne, J. (2018). Fourth Replication of Saffran, Newport, & Aslin (1996) Word segmentation: The role of distributional cues. Preprint.

Miscellaneous

2016 Captain, Boston College Varsity Men's Rowing