Tiwa Eisape

Psycholinguistics, Natural language processing, Machine learning eisape@mit.edu • eisape.github.io

Education

2019 - Massachusetts Institute of Technology

Ph.D, Cognitive Science

Advisors: Roger Levy, Yoon Kim

Committee: Joshua Tenenbaum, Edward Gibson, Jacob Andreas

GPA: 5.0/5.0

2015 – 2019 Boston College

B.S, Computer Science

Advisors: Joshua Hartshorne, Stefano Anzellotti

Major GPA: 3.9/4.0

Academic Postions

2022 - Student Representative to the Board, Cognitive Science Society

Employment

2019 Vimeo Applied Machine Learning

Research Intern

Honors

2021	Graduate Research Fellowship (National Science Foundation)
2019	GEM Full Fellowship (InterActiveCorp/GEM Consortium)
2021	Predoctoral Fellowship (Ford Foundation)
	honorable mention
2019	Dean of Sciences Fellowship (MIT)
2019	Presidential Fellowship (MIT)
	awarded & declined
2019	Matthew R. Copithorne Scholarship (Boston College)
2016	Ronald E. Mcnair Scholarship (The Federal TRIO Programs)
2021	Walle Nauta Teaching Award (MIT)

Talks

Stanford NLP Seminar, Stanford
How Can Findings about the Brain Improve AI Systems workshop, ICLR
Wehbe Lab, Carnegie Mellon University
EdinburghNLP, The University of Edinburgh
Psycholinguistics Coffee, The University of Edinburgh
Machine Learning Reading Group, Vimeo

Publications

Conference Papers

Eisape, T., Gangireddy, V.^, Levy, R. & Kim, Y. (2022). Probing for Incremental Parse States in Autoregressive Language Models. *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP)*.

Liu, Z., **Eisape, T.**, Prud'hommeaux, E., & Hartshorne, J. (2022). Data-driven Crosslinguistic Syntactic Transfer in Second Language Learning. In *Proceedings of the 44th Annual Meeting of the Cognitive Science Society*.

Tucker, M., **Eisape, T.**, Qian, P., Levy, R., & Shah, J. (2022). When Does Syntax Mediate Neural Language Model Performance? Evidence from Dropout Probes. In *Proceedings of the 21st Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL).*

Chen, R.^, Levy, R., & **Eisape, T.** (2021). On Factors Influencing Typing Time: Insights from a Viral Online Typing Game. In *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society*.

Eisape, T., Zaslavsky, N., & Levy, R. (2020). Cloze Distillation: Improving Neural Language Models with Human Next-Word Predictions. In *Proceedings of the 24th Conference on Computational Natural Language Learning*.

Eisape, T., Levy, R., Tenenbaum, J., & Zaslavsky, N. (2020). Toward human-like object naming in artificial neural systems. *In The Bridging AI and Cognitive Science workshop at the 8th International Conference on Representation Learning.*

Abstracts & Posters

Chen, R.^, Levy, R., & Eisape, T. (2021). The Effect of Context on Typing Time: Evidence from 100,000 TypeRacers. In Proceedings of the 34th Annual CUNY Conference on Human Sentence Processing.

Eisape, T., Merrill, W., Dietz, S., & Hartshorne, J. (2020). Grammatical Accents: Using Machine Learning to Quantify Language Transfer. In Proceedings of the 33rd Annual CUNY Conference on Human Sentence Processing.

Eisape, T., Merrill, W., Dietz, S., & Hartshorne, J. (2018). Grammatical Accents: Using Machine Learning to Quantify Language Transfer. In Proceedings of the 43rd Annual Meeting of the Cognitive Science Society.

Preprints

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

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

Teaching

Graduate courses

(Spring) 2021 (Fall) 2020	Teaching Assistant, Cognitive Science (MIT) 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)

Organizing

Conferences

2021 Technical Session Chair, Conference of the Cognitive Science Society

Speaker Series/Reading Groups

- 2022 CompLang, MIT
- 2019 Machine learning reading group, Vimeo

[^] denotes undergraduate students mentored

Research Assistants

2022 -	Vineet Gangireddy, Applied Mathematics (Harvard)
2022 -	Jesus Crespo, Computation and Cognition (MIT)
2022 -	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
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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)
	Reviewing (conferences): Cogsci ('21)

Misc.

2016 Captain, Boston College Varsity Men's Rowing