Tiwa Eisape

Psycholinguistics, Natural language processing, Machine learning
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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)

Publications

Conference Papers

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.

$^\wedge$ *denotes undergraduate students mentored*

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)

Talks

2021	Brain and Cognitive Sciences' Cog Lunch, MIT
2021	How Can Findings about the Brain Improve AI Systems workshop, ICLR
2021	Wehbe Lab, Carnegie Mellon University
2021	EdinburghNLP, The University of Edinburgh
2020	The Conference on Computational Natural Language Learning (CoNLL)
2020	Brain and Cognitive Sciences' Cog Lunch, MIT
2021	Psycholinguistics Coffee, The University of Edinburgh
2020	Bridging AI and Cognitive Science workshop, ICLR
2020	The Language Learning Lab, Boston College
2019	Machine Learning Reading Group, Vimeo
2018	The Atlantic Coast Conference Meeting of the Minds
2017	Ronald E. Mcnair Scholarship Research Symposium

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

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

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