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

Eisape, T., Gangireddy, V.*, Levy, R. & Kim, Y. (2022). Probing for Incremental Parse States in Autoregressive Language Models. *Under Review at the 2022 Conference on Empirical Methods in Natural Language Processing, Proceedings of the 24th Conference on Computational Natural Language Learning.*

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 Exp. 1C. `https://doi.org/10.31234/osf.io/s9uc2`

Choong, H., **Eisape, T.**, ... & Hartshorne, J. K. (2018). Fourth Replication of Saffran, Newport, & Aslin (1996) Word segmentation: The role of distributional cues, Exp. 1. `https://doi.org/10.31234/osf.io/cbu2m`

* 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 -   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