

Tiwalayo n. Eisape

Massachusetts Institute of Technology

Computational Psycholinguistics | Deep learning | Natural language processing

Education

- 2019 - present Ph.D. Brain & Cognitive Sciences, Massachusetts Institute of Technology
 Advisor: Roger Levy
- 2015 - 2019 B.S. Computer Science, Boston College
 Advisors: Joshua K. Hartshorne, Stefano Anzellotti

Experience

- 2019 Research Scientist, Vimeo Applied Machine Learning

Honors and awards

- 2019 Dean of Sciences Fellowship, Massachusetts Institute of Technology
- 2019 Presidential Fellowship, Massachusetts Institute of Technology (*awarded & declined*)
- 2019 Matthew R. Copithorne Scholarship, Boston College
- 2019 GEM Fellowship, InterActiveCorp
- 2019 [Order of the Cross and Crown](#), Boston College
- 2018 Computer Science Honors Program, Boston College
- 2016 Ronald E. McNair Scholarship, Federal TRIO Programs

Teaching

Graduate Courses

- 2020 (Fall) Teaching Assistant, Computational Cognitive Science (Comp/Cog), MIT
- 2018 (Fall) Teaching Assistant, Computational Models of Cognition (Comp/Cog), Boston College

Undergraduate Courses

- 2018 (Fall) Teaching Assistant, Data Mining (Comp), Boston College
- 2019 (Spring) Teaching Assistant, Algorithms (Comp), Boston College
- 2018 (Spring) Teaching Assistant, Computer Science I (Comp), Boston College
- 2018 (Fall) Teaching Assistant, Personal and Social Responsibility (Phil/Theo), Boston College
- 2018 (Spring) Teaching Assistant, Personal and Social Responsibility (Phil/Theo), Boston College
- 2017 (Fall) Teaching Assistant, Personal and Social Responsibility (Phil/Theo), Boston College

Publications, posters, and talks

Submitted

- 2020 Cloze Distillation Improves Psychometric Predictive Power
 Submitted to the 24th Conference on Computational Natural Language Learning
 Tiwalayo Eisape, Noga Zaslavsky, Roger Levy

Conference Abstracts and Posters

- 2020 Toward Human-like Object Naming in Artificial Neural Systems
 In the Proceedings of the 1st Workshop on Bridging AI and Cognitive Sciences
 at the International Conference on Learning Representations.
 Tiwalayo Eisape, Roger Levy, Joshua Tenenbaum, Noga Zaslavsky
- 2020 Grammatical Accents: Using Machine Learning to Quantify Language Transfer
 In the Proceedings of the 33rd Annual CUNY Conference on Human Sentence Processing
 In the Proceedings of the 40th Annual Conference of the Cognitive Science Society
 Tiwalayo Eisape, William Merrill, Sven Dietz, Joshua K. Hartshorne.

2017 Investigating Fibonacci Retracement in the Foreign Exchange Market with Deep Dream
13th Ronald E. McNair Scholarship Research Symposium
Tiwalayo Eisape

In-preparation

2018 Replication of Saffran, Newport, & Aslin (1996): *The Role of Distributional Cues*
*Han X. Choong, **Tiwalayo Eisape**, Shelby Grasso, Lisa Kurt, Celine J. R. Lim, Jingrun Lin, Carrie Milinazzo, Yueran Yang, Mariela Jennings, Lauren Skorb, & Joshua K. Hartshorne.*

Talks

2021 Distilling Human Knowledge into Language Models
Psycholinguistics Coffee, The University of Edinburgh

2020 Computer Vision Models are Language Models
The Language Learning Lab, Boston College

2018 Syntactic Features for Native Language Identification in Spanish and English Corpora
The Atlantic Coast Conference Meeting of the Minds 2018

2017 Investigating Fibonacci Retracement in the Foreign Exchange Market with Deep Dream
13th Ronald E. McNair Scholarship Research Symposium

Leadership

2016 Captain, Varsity Men's Rowing Team, Boston College
2018 - 2019 Residential Assistant, Multicultural Learning Experience program, Boston College
2017 - 2019 Council Member, [PULSE Program for Service Learning](#), Boston College
2018 Preceptor, [Options Through Education](#), Boston College

Students

Research Assistants

2020 Carl Joshua Quines, Research Assistant, MIT, Mathematics
2020 Robert Chen, Research Assistant, MIT, Computer Science

Professional Service

2020 Reviewer, DataKind/data.org
Reviewed for The Inclusive Growth & Recovery Challenge
2020 GradDiversity Ambassador, MIT Office of Graduate Education
2017 Tutor, [Resilient Coders](#)