

Jacob Louis Hoover

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Education

2018–(2024)	PhD, McGill University Department of Linguistics, Mila – Québec Artificial Intelligence Institute, advisor: Timothy J. O'Donnell. [Fast-tracked from MA program in 2019]
2006–2012	BACHELOR OF LIBERAL ARTS (ALB), <i>cum laude</i> , Harvard University Extension School Field of Study: Mathematics Minor: Linguistics

Teaching

WINTER 2023	Instructor, McGill COMP/LING 445 <i>Computational Linguistics</i>
FALL 2021	Guest lecture for McGill COMP/LING 445 <i>Computational Linguistics</i>
2019–2022	Teaching Assistant, 6 McGill courses in linguistics/computer science COMP/LING 596 <i>Probabilistic Programming</i> (WINTER 2021, 2022) COMP/LING 445 <i>Computational Linguistics</i> (FALL 2020, 2021) LING 201 <i>Introduction to Linguistics</i> (FALL 2019, WINTER 2020)

Community

2020–2022	Graduate student representative, McGill Linguistics Department
2020	Graduate Program changes Committee, student member
2019–2022	Vice President, Academic, GLAM , Graduate Linguistics Association of McGill
2019–2020	Founding member, EARTH-LING , McGill Linguistics department environmental working group
2018–pres.	Graduate student member, webmaster, Montréal Computational and Quantitative Linguistics Lab (MCQLL)

Reviewer for: [TACL](#), [CogSci](#), [CoNLL](#)

Research

- 2023 **Jacob Louis Hoover**, Morgan Sonderegger, Steven T. Piantadosi, and Timothy J. O'Donnell. "The Plausibility of Sampling as an Algorithmic Theory of Sentence Processing". In: *Open Mind: Discoveries in Cognitive Science* 7, pp. 350–391. issn: 2470-2986. doi: [10.1162/opmi_a_00086](https://doi.org/10.1162/opmi_a_00086).
- 2022 Michaela Socolof, **Jacob Louis Hoover**, Richard Futrell, Alessandro Sordoni, and Timothy J. O'Donnell. "[Measuring Morphological Fusion Using Partial Information Decomposition](#)". In: *Proceedings of the 29th International Conference on Computational Linguistics*. COLING 2022. Gyeongju, Republic of Korea: International Committee on Computational Linguistics, pp. 44–54.
- Jacob Louis Hoover**. "[With Better Language Models, Processing Time Is Superlinear in Surprisal](#)". Poster. Architectures and Mechanisms for Language Processing (AMLaP) 28 (York, England).
- 2021 **Jacob Louis Hoover**, Wenyu Du, Alessandro Sordoni, and Timothy J. O'Donnell. "Linguistic Dependencies and Statistical Dependence". In: *Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing*. EMNLP 2021. Online and Punta Cana, Dominican Republic: Association for Computational Linguistics, pp. 2941–2963. doi: [10.18653/v1/2021.emnlp-main.234](https://doi.org/10.18653/v1/2021.emnlp-main.234).
- Jacob Louis Hoover**. "[Accounting for Variation in Number Agreement in Icelandic Dative-Nominative Constructions](#)". In: *Proceedings of the 38th West Coast Conference on Formal Linguistics*. WCCFL38, March 6–8, 2020, University of British Columbia, Vancouver. Ed. by Rachel Soo, Una Y. Chow, and Sander Nederveen. Somerville, Mass., USA: Cascadia Proceedings Project, pp. 231–241.

Awards

2020	Microsoft Research-Mila Collaboration Grant , for project supervised by Alessandro Sordoni (MSR Montreal) and Prof. Timothy O'Donnell (Mila). "Towards characterizing compositionality and systematic generalization for natural language representations." \$27k.
2019	
	Graduate Scholar Stipend , Centre for Research on Brain, Language and Music (CRBLM). "What neural network models can tell us about linguistic structure." \$3k.

Languages

English	Native
Estonian	Intermediate (2½ years living and working in Estonia: ~ CEF level B2)
French	Intermediate (~ B2)
Japanese	Novice (two years' university study, at this point rather atrophied)
Russian, Spanish	Basic knowledge

Ballet career

2018–pres.	I retired from full-time dancing in 2018, when I began my graduate study at McGill. I have continued with occasional appearances as an independent artist including with Festival Ballet Providence, Rhode Island Women's Choreography Project, Revolve Dance Project, and Robinson Ballet in Bangor, ME.
2008–2018	I worked full-time as professional dancer from 2008 until 2018. Trained as a ballet dancer at Walnut Hill School and Miami City Ballet School, I danced soloist roles when at José Mateo Ballet Theatre in Cambridge, MA, (2008–2012) and principal roles when at the Vanemuine Theatre in Tartu, Estonia (2013–2015), and was a company dancer for Festival Ballet Providence , RI (2015–2018).