

# Jacob Louis Hoover

updated: January 31, 2024

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## Education

2018–(24)	PhD, <b>McGill University</b> , Department of Linguistics, and <b>Mila</b> – Québec AI Institute advisor: Timothy J. O'Donnell
FALL '23	Visiting PhD student, <b>Massachusetts Institute of Technology</b> , Computational Psycholinguistics Lab PI: Roger Levy
2006–12	BACHELOR OF LIBERAL ARTS (ALB), <i>cum laude</i> , <b>Harvard University Extension School</b> Field of Study: Mathematics   Minor: Linguistics

## Teaching

WINTER '23	Instructor, McGill COMP/LING 445 <i>Computational Linguistics</i>
FALL '21	Guest lecture for McGill COMP/LING 445 <i>Computational Linguistics</i>
2019–22	Teaching Assistant, 6 McGill courses in linguistics/computer science COMP/LING 596 <i>Probabilistic Programming</i> (WINTER '21, WINTER '22) COMP/LING 445 <i>Computational Linguistics</i> (FALL '20, '21) LING 201 <i>Introduction to Linguistics</i> (FALL '19, WINTER '20)

## Community

2020–22	Graduate student representative, McGill Linguistics Department
2020	Graduate Program changes Committee, student member
2019–22	Vice President, Academic, <b>GLAM</b> , Graduate Linguistics Association of McGill
2019–20	Founding member, <b>EARTH-LING</b> , McGill Linguistics department environmental working group
2018–pres.	Graduate student member, webmaster, Montréal Computational and Quantitative Linguistics Lab ( <b>MCQLL</b> )

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

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2023	<b>McGill International Graduate Mobility Award</b> , for research visit with Prof. Roger Levy at MIT. \$6k.
2020	
	<b>Microsoft Research-Mila Collaboration Grant</b> , 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	<b>CRBLM Graduate Scholar</b> Stipend, Centre for Research on Brain, Language and Music ( <a href="#">CRBLM</a> ). "What neural network models can tell us about linguistic structure." \$3k.

## Languages

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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

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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.
2008–18	
	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 at <b>José Mateo Ballet Theatre</b> in Cambridge, MA (2008–12), and <b>Vanemuine Theatre</b> in Tartu, Estonia (2013–15), and was a company dancer for <b>Festival Ballet Providence</b> , now Ballet RI (2015–18).