

Timothy John O'Donnell

CONTACT INFORMATION	Montreal Computational and Quantitative Linguistics Laboratory Department of Linguistics, Mila McGill University 1085 Dr. Penfield Rm. 304 Montréal, Québec H3A 1A7	http://mcqll.org/ timothy.odonnell@mcgill.ca http://todonnell.github.io/ (514)-754-6216 Wednesday 31 st August, 2022
RESEARCH INTERESTS	Probabilistic and deep learning models of language acquisition and processing. Lexical semantics. Lexicon acquisition. Grammar induction. Probabilistic models of phonology and morphology. Computational semantics. Parsing. Mathematical linguistics. Formal language theory. Probabilistic programming languages. Universal inference algorithms.	
EMPLOYMENT	<p>McGill University, Montréal, QC, Canada Core Member: Mila, 2020–Present Associate Member: School of Computer Science, 2017–Present Assistant Professor: Department of Linguistics, 2017–Present Associate Member: Mila, 2018–2020</p> <p>Massachusetts Institute of Technology, Cambridge, MA Research Scientist: Brain and Cognitive Sciences, 2015–2016 Post-Doctoral Fellow: Brain and Cognitive Sciences, 2011–2015</p> <p>Harvard University, Cambridge, MA Research Assistant: Harvard University Cognitive Evolution Laboratory, 2004–2005</p> <p>BBN Technologies, Inc., Cambridge, MA Intern in Speech and Language Department, Summer 2005 Intern in Speech and Language Department, Summer 2003</p> <p>University of Edinburgh, Edinburgh, UK Research Fellow: Division of Informatics, 2001–2003</p> <p>Lernout and Hauspie, Inc., Boston, MA and Wemmel, Belgium Development Engineer (speech recognition technology), 1999–2001</p> <p>Eloquent Technology, Inc., Ithaca, NY Development Assistant (speech synthesis technology), 1997–1999</p>	
AWARDED APPOINTMENTS	<p>Canada CIFAR AI Chair, Mila (2020–Present). William Dawson Scholar, McGill University (2018–Present).</p>	
EDUCATION	<p>Harvard University, Cambridge, MA PhD, Psychology, 2011 Dissertation Title: Productivity and Reuse in Language Committee: Jesse Snedeker, Steven Pinker, Joshua Tenenbaum, Mark Johnson, Noah Goodman</p> <p>Cornell University, Ithaca, NY B.A., Linguistics, Cognitive Studies Concentration, 1999</p>	

GRANTS
(PI)

- 2021–2022: Canada Foundation for Innovation John R. Evans Leaders Fund.
Advanced computing infrastructure for integrating machine learning and linguistics.
PI: Timothy J. O’Donnell, Siva Reddy
\$475,941.
- 2020: Mitacs Accelerate Grant.
Compositionality and semantic parsing.
PI: Timothy J. O’Donnell, Siva Reddy, Dzimitry Bahdanau (ServiceNow Research).
\$30,000.
- 2020–2025: Canadian Institute for Advanced Research (CIFAR) AI Chair Award.
\$500,000.
- 2019–2020: Microsoft Research Montréal and Mila Research Collaboration Grant.
Compositionality and systematic generalization for natural language representations.
PI: Timothy J. O’Donnell, Alessandro Sordani (Microsoft Research Montréal).
\$54,000.
- 2018–2023: McGill University Dawson Scholar.
Towards Robust Generalization in Language Models via Linguistics.
PI: Timothy J. O’Donnell.
\$125,000.
- 2018–2024: Natural Sciences and Engineering Research Council (NSERC) Discovery Grant.
Towards Robust Unsupervised Language Learning.
PI: Timothy J. O’Donnell.
\$246,500.
- 2018–2021: Fonds de Recherche du Québec Société et Culture Nouveaux Chercheurs Grant.
Testing Theories of Linguistic Productivity.
PI: Timothy J. O’Donnell.
\$56,545.
- 2018–2019: Mitacs Accelerate Grant.
Natural Language Understanding and Generation.
PI: Timothy J. O’Donnell, Mihai Florea (Thales Canada Inc).
\$30,000.

FELLOWSHIPS

- 2015–2016: Technische Universität Dresden Junior Research Fellow.
Computational Models of Musical Syntax.
Sponsor: Martin Rohrmeier (Musicology).
- 2012–2014: MIT Intelligence Initiative Postdoctoral Fellowship.
Representation, Inference, and Natural Language.
Advisors: Joshua Tenenbaum (Brain and Cognitive Sciences).
- 2011–2012: MIT Intelligence Initiative Postdoctoral Fellowship.
Language research—Connecting computer science, psychology and linguistics.
Advisors: Edward Gibson (Brain and Cognitive Sciences); Regina Barzilay (Computer Science and Artificial Intelligence Laboratory); Irene Heim (Linguistics).

OTHER GRANTS
(NON-PI)

- 2021–2024: Fonds de Recherche du Québec Nature et Technologie Projet de Recherche en Équipe.
Étude des fondements biologiques de la musique par l'analyse des universaux musicaux dans la communication animale.
PI: Sarah Woolley.
Role: Contributor, Collaborator.
- 2017–2018: McGill Internal Social Sciences and Humanities Development Grant.
Games and probability—A new approach to antipresuppositions.
PI: Bernhard Schwarz.
Role: Contributor, Collaborator.
- 2016–2019: National Science Foundation.
CompCog—Large-scale, empirically based, publicly accessible database of argument structure to support experimental and computational research.
PI: Joshua Hartshorne.
Role: Contributor, Collaborator.
- 2017–2022: Social Sciences and Humanities Research Council Insight Grant.
Uncovering the structure and sources of speech variability through large-scale studies.
PI: Morgan Sonderegger.
Role: Contributor, Collaborator.
- 2015–2018: Air Force Office of Scientific Research.
Bayesian program learning and concept induction.
PI: Joshua Tenenbaum.
Role: Contributor, Collaborator.
- 2011–2015: EU Xperience Grant.
Robots bootstrapped through learning from experience.
PI: Mark Steedman.
Role: Contributor, Collaborator.

AWARDS

Cognitive Science Society annual computational modeling prize for language (2011).

BOOKS

[1] T. J. O’Donnell. (2015). *Productivity and Reuse in Language: A Theory of Linguistic Computation and Storage*. MIT Press. Cambridge, MA. [endorsements]

JOURNAL ARTICLES

- [2] L. Bergen, E. Gibson, and **T. J. O’Donnell***. (Accepted). Simplicity and learning to distinguish arguments from modifiers. *Journal of Language Modeling*.
- [3] K. Ellis, A. Albright, A. Solar-Lezama, J. B. Tenenbaum, and **T. J. O’Donnell***. (2022). Synthesizing theories of human language with Bayesian program induction. *Nature Communications*. 13(5024), 1–13.
- [4] R. Katzir, T. J. O’Donnell, and E. Rasin. (2021). Introduction to the special issue on simplicity in grammar learning. *Journal of Language Modeling*. 9(1), 1–4.
- [5] T. Morita and **T. J. O’Donnell***. (2020). Statistical evidence for learnable lexical subclasses in Japanese. *Linguistic Inquiry*. 53(1), 87–120.
- [6] S. A. Mehr, M. Singh, D. Knox, D. M. Ketter, D. Pickens-Jones, S. Atwood, C. Lucas, A. Egner, N. Jacoby, E. J. Hopkins, R. M. Howard, J. K. Hartshorne, M. V. Jennings, J. Simson, C. M.

* Bold indicates senior author and supervisor or co-supervisor on project.

Bainbridge, S. Pinker, T. J. O’Donnell, M. M. Krasnow, and L. Glowacki. (2019). Universality and diversity in human song. *Science*, 366, eaax0868:1–17.

[7] W. Zuidema, R. M. French, R. G. Alhama, K. Ellis, T. J. O’Donnell, T. Sainburg, and T. Q. Gentner. (2019). Five ways in which computational models can help advancing artificial grammar learning research. *Topics in Cognitive Science*. 12(3), 925–941.

[8] Hartshorne, J. K, de Leeuw, J., Goodman, N., Jennings, M., and O’Donnell, T. J. (2019). A thousand studies for the price of one: Accelerating psychological science with Pushkin. *Behavior Research Methods*. 51(4), 1782–1803.

[9] R. Futrell, A. Albright, P. Graff, and **T. J. O’Donnell***. (2017). A generative model of phonotactics. *Transactions of the Association for Computational Linguistics*. 5:73–86.

[10] J. K. Hartshorne, T. J. O’Donnell, Y. Sudo, M. Uruwashii, M. Lee, and J. Snedeker. (2016). Psych verbs, the linking problem, and the acquisition of language. *Cognition*. 157:268–288.

[11] C. Lee, T. J. O’Donnell, and J. R. Glass. (2015). Unsupervised lexicon discovery from acoustic input. *Transactions of the Association for Computational Linguistics*. 3:389–403.

[12] J. K. Hartshorne, T. J. O’Donnell, and J. B. Tenenbaum. (2015). The causes and consequences explicit in verbs. *Language, Cognition, and Neuroscience*, 30(6):716–734.

[13] J. J. M. O’Connor, P. J. Fraccaro, K. Pisanski, C. C. Tigue, T. J. O’Donnell and D. R. Feinberg. (2014). Social dialect and men’s voice pitch influence women’s mate preferences. *Evolution and Human Behavior*, 35(5):368–375.

[14] A. Almoammer, J. Sullivan, C. Donlan, F. Marušić, R. Žaucer, T. J. O’Donnell, and D. Barner. (2013). Grammatical morphology as a source of early number word meanings. *Proceedings of the National Academy of Science*, 110:18448–18453.

[15] M. D. Hauser, D. Barner, and T. J. O’Donnell. (2007). Evolutionary linguistics: A new look at an old landscape. *Language Learning and Development*, 3(2):101–132.

[16] T. J. O’Donnell, M. D. Hauser, and W. T. Fitch. (2005). Using mathematical models of language experimentally. *Trends in Cognitive Sciences*, 9(6):284–289.

REFEREED
CONFERENCE
ARTICLES

[17] M. Socolof, J. Hoover, A. Sordoni, R. Futrell, and **T. J. O’Donnell***. (2022). Measuring morphological fusion using partial information decomposition. *The 29th International Conference on Computational Linguistics (COLING 2022)*.

[18] B. Lebrun, A. Sordoni, and **T. J. O’Donnell***. (2022). Evaluating distributional distortion in neural language modeling. *The Tenth International Conference on Learning Representations (ICLR 2022)*.

[19] M. Socolof, M. Wagner, J. C. K. Cheung and **T. J. O’Donnell***. (2022). Characterizing idioms: Conventionality and contingency. *The 60th Annual Meeting of the Association for Computational Linguistics (ACL 2022)*

[20] E. Goodwin, T. J. O’Donnell, S. Reddy and D. Bahdanau. (2022). Compositional generalization in dependency parsing. *The 60th Annual Meeting of the Association for Computational Linguistics (ACL 2022)*

[21] L. Bergen, T. J. O’Donnell, D. Bahdanau. (2021). Systematic generalization with Edge Trans-

- formers. *Thirty-fifth Conference on Neural Information Processing Systems (NeurIPS 2021)*.
- [22] J. L. Hoover, W. Du, A. Sordoni, and **T. J. O'Donnell***. (2021). Linguistic dependencies and statistical dependence. *Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing (EMNLP 2021)*. Punta Cana, Dominican Republic.
- [23] S. Tan, Y. Shen, T. J. O'Donnell, A. Sordoni, and A. Courville. (2020). Recursive top-down production for sentence generation with latent trees. *Findings of the Association for Computational Linguistics: EMNLP 2020*. Online.
- [24] D. Harasim, C. Finkensiep, P. Ericson, T. J. O'Donnell, and M. Rohrmeier. (2020). The Jazz Harmony Treebank. *Proceedings of the Annual Meeting of the International Society for Music Information Retrieval (ISMIR 2020)*. Montréal, Canada.
- [25] E. Goodwin, K. Sinha, and **T. J. O'Donnell***. (2020). Probing linguistic systematicity. *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL 2020)*. Online.
- [26] W. Du, Z. Lin, Y. Shen, T. J. O'Donnell, and Y. Bengio. (2020). Exploiting syntactic structure for better language modeling: A syntactic distance approach. *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics (ACL 2020)*. Seattle, Washington.
- [27] S. Wu, R. Cotterell, and **T. J. O'Donnell***. (2019). Morphological irregularity correlates with frequency. *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics (ACL 2019)*. Florence, Italy.
- [28] D. Harasim, T. J. O'Donnell, and M. Rohrmeier. (2019). Harmonic syntax in time: Rhythm improves grammatical models of harmony. *Proceedings of the Annual Meeting of the International Society for Music Information Retrieval (ISMIR 2019)*. Delft, Netherlands.
- [29] A. S. Nobandegani, K. da Silva Castanheira, T. J. O'Donnell and T. Shultz. (2019). On robustness: An undervalued dimension of human rationality. *17th International Conference on Cognitive Modeling*. Montréal, Québec, Canada.
- [30] D. Harasim, M. Rohrmeier, and **T. J. O'Donnell***. (2018). A generalized parsing framework for generative models of harmonic syntax. *Proceedings of the Annual Meeting of the International Society for Music Information Retrieval (ISMIR 2018)*. Paris, France.
- [31] C. C. Aitken, T. J. O'Donnell, and M. Rohrmeier. (2018). A maximum likelihood model for the harmonic analysis of symbolic music. *Proceedings of the Sound and Music Computing Conference*. Limassol, Cyprus.
- [32] J. Mu, J. K. Hartshorne, and **T. J. O'Donnell***. (2017). Evaluating hierarchies of verb argument structure with hierarchical clustering. *Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing (EMNLP 2017)*. Copenhagen, Denmark. 992–1003.
- [33] T. Linzen and T. J. O'Donnell. (2015). A model of rapid phonotactic generalization. *Proceedings of 2015 Empirical Methods in Natural Language Processing (EMNLP 2015)*. Lisbon, Portugal, 1126–1131.
- [34] M.-T. Luong[†], T. J. O'Donnell[†], and N. D. Goodman. (2015). Evaluating models of computation and storage in human sentence processing. *Proceedings of the Sixth Workshop on Cognitive Aspects*

of *Computational Language Learning*. Lisbon, Portugal, 14–21.

[35] L. Bergen, E. Gibson, **T. J. O’Donnell***. (2013) Arguments and modifiers from the learner’s perspective. In *Proceedings of the 51st Annual Meeting of the Association for Computational Linguistics (ACL 2013)*. Sofia, Bulgaria, 115–119.

[36] M. Fullwood and **T. J. O’Donnell***. (2013) Learning non-concatenative morphology. In *Proceedings of the 4th Annual Workshop on Cognitive Modeling and Computational Linguistics (CMCL 2013)*. Sofia, Bulgaria, 21–27.

[37] T. J. O’Donnell, J. Snedeker, J. B. Tenenbaum, and N. D. Goodman. (2011). Productivity and reuse in language. In *Proceedings of the Thirty-Third Annual Conference of the Cognitive Science Society*. Boston, MA, 1613–1618.

[38] M. Troyer, T. J. O’Donnell, E. Fedorenko, and E. Gibson. (2011). Storage and computation in syntax: Evidence from relative clause priming. In *Proceedings of the Thirty-Third Annual Conference of the Cognitive Science Society*. Boston, MA, 336–341.

[39] J.K. Hartshorne, T. J. O’Donnell, Y. Sudo, M. Uruwashii, and J. Snedeker (2010). Linking meaning to language: Linguistic universals and variation. In *Proceedings of the Thirty-Second Annual Conference of the Cognitive Science Society*. Portland, OR, 1186–1191.

[40] J. Carletta, J. Kilgour, T. J. O’Donnell, S. Evert, and H. Voormann. (2003). The NITE object model library for handling structured linguistic annotation on multimodal data sets. In *Proceedings of the EACL Workshop on Language Technology and the Semantic Web (NLPXML-2003)*. Budapest, Hungary.

TEXTBOOKS
(ONLINE)

[41] T. J. O’Donnell and L. Bergen. *Foundations of Computational Linguistics*. (Last Updated: 2021). [[url](#)].

[42] N. D. Goodman, J. B. Tenenbaum, D. Buchsbaum, J. K. Hartshorne, R. Hawkins, T. J. O’Donnell, and M. H. Tessler. *Probabilistic Models of Cognition*. (2016). [[url](#)].

REFEREED
CONFERENCE
ABSTRACTS

[43] A. Doucette, T. J. O’Donnell, H. Goad, and M. Sonderegger. (2022) Identity, similarity, and the OCP: A model of co-occurrence in 107 Languages. *LabPhon 18*.

[44] J. Hoover, M. Sonderegger, S. Piantadosi, and **T. J. O’Donnell***. (2022). With better language models, processing time is superlinear in surprisal. *Proceedings of the 28th Architectures and Mechanisms for Language Processing Conference (AMLAP 2022)*. University of York, York, United Kingdom.

[45] T. Chen, T. J. O’Donnell, and J. K. Hartshorne. (2021). Verb argument structure and semantics in contextual word embeddings. *The 12th Dubrovnik Conference on Cognitive Science*. Dubrovnik, Croatia.

[46] B. Jiang, M. Clayards, M. Ravanelli and **T. J. O’Donnell***. (2019) A neural network approach to investigating tone space in Mandarin Chinese. *The 177th Meeting of the Acoustical Society of America*, Louisville, Kentucky.

[47] S. A. Mehr, M. Singh, D. Knox, D. M. Ketter, D. Pickens-Jones, S. Atwood, C. Lucas, A. Egner, N. Jacoby, E. J. Hopkins, R. M. Howard, T. J. O’Donnell, S. Pinker, M. M. Krasnow, L. Glowacki.

* Bold indicates senior author and supervisor or co-supervisor on project.

† Indicates co-first-authorship.

- (2019). A natural history of song. *European Human Behavior and Evolution Association Annual Conference*. Toulouse, France.
- [48] G. Theos, **T. J. O’Donnell***. (2019). Studying morphological computation and storage via lexical decision data. *32nd Annual CUNY Conference on Human Sentence Processing (CUNY 2019)*. Boulder, Colorado.
- [49] V. Willerton, G. Adachi-Kriege, S. Wu, R. Cotterell, **T. J. O’Donnell***. (2019). A systematic study of the rate of child over-irregularization errors. *32nd Annual CUNY Conference on Human Sentence Processing (CUNY 2019)*. Boulder, Colorado.
- [50] J. Mu, J. K. Hartshorne, **T. J. O’Donnell***. (2018). Learning and evaluating hierarchies of argument structure. *Learning Language in Humans and in Machines*. Paris, France.
- [51] A. Bruno, E. Portelance, D. Harasim, L. Bergen, and **T. J. O’Donnell***. (2018). A framework for lexicalized grammar induction using variational Bayesian inference. *Learning Language in Humans and in Machines*. Paris, France. 5-6 July.
- [52] A. Bruno, E. Portelance, **T. J. O’Donnell***. (2017) Unsupervised induction of natural-language dependency structures. *Montreal AI Symposium*, Montreal, Québec, Canada.
- [53] E. Stengel-Eskin, E. Kellison-Linn, **T. J. O’Donnell***. (2017) Variational inference for unsupervised lexicon learning. *Montreal AI Symposium*, Montreal, Québec, Canada.
- [54] J. K. Hartshorne, J. Mu, T. J. O’Donnell, and M. Palmer. (2016). The relationship between semantics and verb argument structure is highly regular: A large scale, crowd-sourced investigation. *Architectures and Mechanisms in Language Processing*, Bilbao, Spain.
- [55] J. Mu, J. K. Hartshorne, **T. J. O’Donnell***. (2016) Unsupervised learning of VerbNet argument structures. *Proceedings of the 39th Annual Meeting of Cognitive Science Society*, London, United Kingdom.
- [56] R. Futrell, A. Albright, P. Graff, and **T. J. O’Donnell***. (2016). A generative model of phonotactics. *Proceedings of the 90th Annual Meeting of the Linguistic Society of America (LSA 2016)*, Washington, DC.
- [57] T. Linzen, and T. J. O’Donnell. (2016). A model of rapid phonotactic generalization. *Proceedings of the 90th Annual Meeting of the Linguistic Society of America (LSA 2016)*, Washington, DC.
- [58] T. J. O’Donnell and K. Smith. (2015). Evidence for an irregularization bias in morphological learning. *Proceedings of the 40th Annual Boston University Conference on Language Development*, Boston, Massachusetts.
- [59] T. Linzen, and T. J. O’Donnell. (2015). A model of rapid phonotactic generalization. *Workshop on Computational Phonology and Morphology (COMPMORPHON)*, Chicago, Illinois.
- [60] R. Futrell, A. Albright, P. Graff, and **T. J. O’Donnell***. (2015). A generative model of phonotactics. *Workshop on Computational Phonology and Morphology (COMPMORPHON)*, Chicago, Illinois.
- [61] J. K. Hartshorne, T. Gerstenberg, T. J. O’Donnell, and J. B. Tenenbaum. (2014). Language understanding and common sense reasoning. *Architectures and Mechanisms in Language Processing (AMLaP)*, Edinburgh, United Kingdom.

- [62] V. Plesničar, T. Razboršek, J. Sullivan, A. Almoammer, C. Donlan, D. Barner, T. J. O'Donnell, R. Žaucer, and F. Marušič. (2013). Number morphology as a source of early mathematical content. *Syntax, Phonology, and Language Analysis (SinFonIJA) 6*, Novi Sad, Serbia.
- [63] D. Barner, F. Marušič, T. J. O'Donnell, V. Plesničar, T. Razboršek, J. Sullivan and R. Žaucer. (2013). Language as a source of numerical concepts. *Formal Approaches to Slavic Linguistics 22*, Hamilton, Ontario, Canada.
- [64] D. Barner, T. Razboršek, V. Plesničar, J. Sullivan, T. J. O'Donnell, R. Žaucer, and L. Marušič. (2013). Language as a source of numerical concepts. *Biennial Meeting of the Society for Research in Child Development*, Seattle, Washington.
- [65] K. Mahowald, T. J. O'Donnell, and J.B. Tenenbaum. (2013) Filling in the blanks in morphological productivity: A word completion task. *The 26th annual CUNY Sentence Processing Conference*, Columbia, South Carolina.
- [66] Barner, D., Marušič, F., O'Donnell, T., Plesničar, V., Razboršek, T. Sullivan, J., Žaucer, R. (2013). Language as a source of numerical concepts. *39th Incontro di Grammatica Generativa*, Modena and Reggio Emilia, Emilia-Romagna, Italy.
- [67] T. J. O'Donnell, J. Snedeker, J. B. Tenenbaum, and N. D. Goodman. (2011). Productivity and reuse in language: A developmental study. *Proceedings of the Thirty-Third Annual Conference of the Cognitive Science Society*, Boston, Massachusetts.
- [68] E. Conwell, T. J. O'Donnell, and J. Snedeker. (2010). Frozen chunks and generalized representations: The case of the English dative alternation. In *Proceedings of 35th Annual Boston University Conference on Language Development (Full Paper Published)*, Boston, Massachusetts, 132–144.
- [69] T. J. O'Donnell, M. Thothathiri, and J. Snedeker. (2010). Priming of natural language structures by artificial language stimuli. *The 23rd Annual CUNY Conference on Human Sentence Processing*, New York, New York.
- [70] T. J. O'Donnell, N. D. Goodman, J. Snedeker, and J. B. Tenenbaum. (2009). Computation and reuse in language learning. *The 34th Annual Boston University Conference on Language Development*, Boston, Massachusetts.
- [71] W. Zuidema and T. J. O'Donnell. (2006). Beyond the argument from design. *Proceedings of the 6th International Conference on the Evolution of Language*, Rome, Italy.
- [72] T. J. O'Donnell and W. Zuidema. (2004). Mathematical linguistics and language evolution. *Proceedings of the 5th International Conference on the Evolution of Language*, Leipzig, Germany.

OTHER
CONFERENCE
PRESENTATIONS
AND POSTERS

- [73] M. Watt, M. Braginsky and **T. J. O'Donnell***. (2021). Processing differences among irregular inflection classes. Poster presented at the *43rd Annual Meeting of the Cognitive Science Society (CogSci 2021)*. Vienna, Austria.
- [74] D. Harasim, T. J. O'Donnell, and M. Rohrmeier. (2021). The learnability of goal-directedness in jazz music. Poster presented at the *43rd Annual Meeting of the Cognitive Science Society (CogSci 2021)*. Vienna, Austria.
- [75] D. Harasim, T. J. O'Donnell, and M. Rohrmeier. (2021). The learnability of hierarchical grammars for chord sequences: A corpus study of jazz harmony. Poster presented at the *International Conference on Music Perception and Cognition*. Sheffield, United Kingdom.

- [76] R. Ergin, E. Morgan, T. J. O’Donnell. (2020). Storage and computation of multimorphemic words in Turkish. Poster presented at the *40th Annual Meeting of the Cognitive Science Society (CogSci 2020)*.
- [77] E. Goodwin, K. Sinha, and **T. J. O’Donnell***. (2019). Systematic generalization in natural language inference: A linguistic perspective. Poster presented at the *41st Annual Meeting of Cognitive Science Society (CogSci 2019)*. Montréal, Québec, Canada.
- [78] A. S. Nobandegani, K. da Silva Castanheira, T. J. O’Donnell and T. R. Shultz. (2019). On robustness: An undervalued dimension of human rationality. Poster presented at the *41st Annual Meeting of Cognitive Science Society (CogSci 2019)*. Montréal, Québec, Canada.
- [79] M. Braginsky, R. Levy, and **T. J. O’Donnell***. (2018). Evaluating models of productivity in language acquisition. Poster presented at the *40th Annual Meeting of the Cognitive Science Society (CogSci 2018)*. Madison, Wisconsin.
- [80] R. Futrell and **T. J. O’Donnell***. (2017). A generative model of phonotactics. Presentation at the *MIT Workshop on Simplicity in Grammar Learning*. Cambridge, Massachusetts.
- [81] K. Ellis and **T. J. O’Donnell***. (2017). Inducing phonological rules: Perspectives from Bayesian program learning. Presentation at the *MIT Workshop on Simplicity in Grammar Learning*. Cambridge, Massachusetts.
- [82] R. Futrell, A. Albright, P. Graff, and **T. J. O’Donnell***. (2015). A generative interpretation of feature hierarchies. *North East Computational Phonology Workshop (NECPHON 2015)*. Newark, Delaware.
- [83] J. K. Hartshorne, T. Gerstenberg, T. J. O’Donnell, and J. B. Tenenbaum. (2014). Language understanding and common sense reasoning. *Annual Meeting of the Psychonomics Society*. Long Beach, California.
- [84] J. K. Hartshorne, T. J. O’Donnell, Y. Sudo, M. Uruwashii, and J. Snedeker. (2012). Linking event structure to language: Linguistic universals and variation. *Maryland’s First Annual Interdisciplinary Research Symposium on Events (PHLING)*. College Park, Maryland.
- [85] T. J. O’Donnell. (2011). Productivity and reuse in language. *Workshop: Empirically Examining Parsimony and Redundancy in Usage-based Models at the 2011 Linguistic Society of America*. Pittsburgh, Pennsylvania.
- [86] L. Bergen, D. Bahdanau, T. J. O’Donnell. (2021). Jointly learning truth-conditional denotations and groundings using parallel attention. arXiv, (arXiv:2104.06645 [cs.CL]).
- [87] D. Bahdanau, H. de Vries, T. J. O’Donnell, S. Murty, P. Beaudoin, Y. Bengio, A. Courville. (2020). CLOSURE: Assessing systematic generalization of CLEVR models. arXiv, (arXiv:1912.05783 [cs.AI]).
- [88] E. Portelance, A. Bruno, L. Bergen, and **T. J. O’Donnell*** (2017). Grammar induction for mildly context sensitive languages using variational Bayesian inference. arXiv, (arXiv:1710.11350v2 [cs.CL]).
- [89] D. Harasim, A. Bruno, E. Portelance, M. Rohrmeier, and **T. J. O’Donnell*** (2017). A generalized parsing framework for abstract grammars. arXiv, (arXiv:1710.11301v3 [cs.CL]).
- [90] D. Wingate, C. Diuk, T. J. O’Donnell, and J. Tenenbaum, S. Gershman. (2013). Compositional

policy priors. Technical Report MIT-CSAIL-TR-2013-007, Massachusetts Institute of Technology—Computer Science and Artificial Intelligence Laboratory, 2013.

[91] T. J. O’Donnell, N. D. Goodman, and J. B. Tenenbaum. (2009). Fragment Grammars: Exploring computation and reuse in language. Technical Report MIT-CSAIL-TR-2009-013, Massachusetts Institute of Technology—Computer Science and Artificial Intelligence Laboratory, 2009.

ARTICLES UNDER
REVIEW

[92] A. Chakraborty, T. J. O’Donnell, and J. C. K. Cheung. (Under Review: *The 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP 2022)*) Systematic generalization by finetuning? Analyzing pretrained language models using constituency tests.

[93] A. Doucette, T. J. O’Donnell, H. Goad, and M. Sonderegger. (Under Review: *Glossa*) Universal tendencies towards vowel harmony and consonant disharmony.

MANUSCRIPTS

[94] J. Hoover, M. Sonderegger, and **T. J. O’Donnell***. (2022). The plausibility of sampling as a algorithmic model of human sentence processing.

[95] B. Jiang, M. Clayards, M. Sonderegger, M. Ravanelli, and **T. J. O’Donnell***. (2022). Modelling perceptual tonal space in Mandarin Chinese continuous speech.

[96] K. McCurdy, T. J. O’Donnell, A. Lopez and S. Goldwater. (2022). Does generalization imply regularization? A reconsideration of default models for German plural inflection.

[97] T. Morita and **T. J. O’Donnell***. (2022). Unsupervised classification of English words based on phonological information: Discovery of Germanic and Latinate clusters.

[98] E. Morgan, T. J. O’Donnell, and R. Ergin. (2022). Formalizing theories of storage versus computation with Tree-based Grammars.

[99] L. Bergen, T. J. O’Donnell, and D. Bahdanau. (2021). Learning linguistically-influenced groundings using parallel attention.

TUTORIALS

[100] N. D. Goodman, J. B. Tenenbaum, T. J. O’Donnell and the Church Working Group. (2011). Probabilistic models of cognition (tutorial).

[101] N. D. Goodman, J. B. Tenenbaum, T. J. O’Donnell and the Church Working Group. (2010). Probabilistic models of cognition (tutorial) for *the European Summer School of Logic, Language and Information*.

INVITED TALKS

Representation in linguistics. Trinity College Working Group: Representation, Past, Present, and Future. May, 2022.

Productivity and compositionality: Linguistic and mathematical perspectives. *ServiceNow Research Group.* April, 2022.

Jointly learning meaning and groundings. *Mila Techaide AI Conference.* April, 2021.

Productivity and reuse in language. *NYU Morphological Processing Project.* October, 2020.

Compositionality in language. *Montréal Institute for Learning Algorithms (Mila).* May, 2020.

Towards robust and compositional NLU models. (w/ Alessandro Sordoni). *Microsoft Research Montréal Mila Research Day.* September, 2019.

Computation, storage, and generalization in language. *Montréal Institute for Learning Algorithms (Mila)*. January, 2018.

Productivity and reuse in language. *Montréal WORDs research group*. December, 2017.

Storage, computation, and generalization in language. *McGill School of Computer Science Colloquium*. May, 2017.

Algorithmic program synthesis of morpho-phonological rules. *Lorentz Center Workshop on the Comparative Biology of Language Learning*. April, 2017.

Computation and storage in language. *University of Edinburgh Division of Informatics*. October, 2016.

Productivity and reuse in language. *École Normale Supérieure, Laboratoire de Sciences Cognitives et Psycholinguistique*. July, 2016.

Computation, storage, and generalization in language. *University of Amsterdam, Institute for Logic, Language, and Computation, Cognitive Science Summer School*. June, 2016.

Productivity, reuse, and competition between generalizations. *Competition Workshop, Linguistics Society of America Summer Institute*. July, 2015.

Productivity, reuse, and competition between generalizations. *University of Rochester, Department of Psychology, Computation and Language Laboratory*. July, 2015.

Productivity, reuse, and lexicon learning. *Tufts University, Department of Psychology*. June, 2015.

Productivity, reuse, and lexicon learning. *University of California Berkeley, Department of Psychology*. June, 2015.

Productivity, reuse, and lexicon learning. *Stanford University, Department of Computer Science, NLP Group*. June, 2015.

Productivity and reuse in language. *New York University, Department of Linguistics, Morphology Group Seminar*. February, 2015.

Productivity and reuse in language. *Syntaxzirkel, Zentrum für Allgemeine Sprachwissenschaft, Berlin*. January, 2015.

Productivity and reuse in language. *Technische Universität Dresden, Musik, Mathematik, Kognition Seminar Series*. January, 2015.

A theory of linguistic computation and storage. *University of Amsterdam, Speech, Language, Music, Art, Reasoning and Thought (SMART) Cognitive Science Seminar Series*. July, 2014.

Productivity and reuse in lexical learning. *Northeastern University Sentence Processing Laboratory*. February, 2014.

Productivity and reuse in language: Non-parametric Bayesian models of lexical acquisition. *Brown Department of Applied Mathematics, Pattern Theory Lunch*. February, 2014.

Fragment Grammars: Productivity and reuse in language. *Institute for Pure and Applied Mathematics Graduate Summer School in Probabilistic Models of Computation*. July, 2011.

Commentary on: Learning and linguistic competence by Roni Katzir. *Cornell Workshop on Grammar Induction*. May, 2010.

Computation and reuse in language. *Institute for Logic Language and Computation*. August, 2009.

Bayesian models for cognition and language. *École Normale Supérieure*. July, 2009

Computation and reuse in language. *University of Edinburgh Language Evolution and Computation Research Unit*. June, 2009

Computation and reuse in language learning. *Harvard University Artificial Intelligence Research Group*. October, 2008.

Modeling computation and reuse in language learning. *Brown Laboratory for Linguistic Information Processing*. September, 2008.

Structure and reuse in language learning. *Tufts University*. August, 2008.

Computation and reuse in language. *Cornell University Department of Linguistics*. April, 2008.

Computational homologies in language. *Birdsong, Speech and Language: Converging Mechanisms*. April, 2007.

TEACHING

Instructor

Undergraduate and graduate

Fall 2022, McGill, COMP 598/LING 483/683 *Probabilistic Programming*

Winter 2022, McGill, COMP 596/LING 483/683 *Probabilistic Programming*

Fall 2021, McGill, COMP 596/LING 483/682 *From Language to Data Science* (w/ Siva Reddy)

Fall 2021, McGill, COMP/LING 445/645 *Computational Linguistics*

Winter 2021, McGill, COMP 596/LING 484/683/ *Probabilistic Programming*

Fall 2020, McGill, COMP 596/LING 483/682 *From Language to Data Science* (w/ Siva Reddy)

Fall 2020, McGill, COMP/LING 445/645 *Computational Linguistics*

Winter 2020, McGill, LING 483/682 *Computational Linguistics 2*

Winter 2019, McGill, LING 483/683 *Mathematical Models of Syntactic Structure*

Fall 2018, McGill, LING 445/645 *Computational Linguistics*

Winter 2018, McGill, LING 445/645 *Computational Linguistics*

Fall 2017, McGill, LING 751 *Neural Networks and Natural Language*

Spring 2016, MIT, *Computational Morphology and Phonology* (w/ Adam Albright)

Undergraduate

Spring 2011, MIT, *Computational Cognitive Science* (w/ Joshua B. Tenenbaum)

Fall 2005, Harvard College, *How to Design a Communication System: Human, Animal and Artificial Languages* (w/ Andrew Nevins)

Invited Guest Lectures

Winter 2019, McGill, *Cognitive Science* (Ross Otto)

Winter 2018, McGill, *Cognitive Science* (Ross Otto)

Fall 2017, McGill, *Natural Language Processing* (Jackie Cheung)

Spring 2015, MIT, *Cognitive Core Graduate Class* (Edward Gibson)

Spring 2014, MIT, *Cognitive Core Graduate Class* (Edward Gibson)

Fall 2013, MIT, *Computational and Mathematical Linguistics* (Martin Rohrmeier)

Spring 2012, MIT, *Topics in Computational Phonology and Morphology* (Adam Albright)

Fall 2012, MIT, *Morphology* (David Pesetsky and Adam Albright)

Independent Studies

Winter 2018, McGill, LING 488 (Elias Stengel-Eskin)
Winter 2018, McGill, LING 488 (Kirsten Neprily)
Fall 2018, McGill, LING 488 (Emily Goodwin)
Fall 2018, McGill, LING 488 (Benji Taubenblatt)
Fall 2018, McGill, LING 488 (Gregory Theos)
Fall 2018, McGill, COMP 400 (Seara Chen)
Winter 2019, McGill, COMP 396 (Jade Yu)
Fall 2019, McGill, LING 488 (Maya Watt)
Winter 2020, McGill, LING 488 (Emily Baylor)
Winter 2020, McGill, LING 488 (Nathan Drezner)
Winter 2021, McGill, LING 489 (Benjamin Lebrun)
Fall 2021, McGill, COMP 400 (Benjamin Lebrun)

Tutorials

Spring 2015, Technische Universität Dresden, *Probabilistic Models of Cognition* (2 Days)
Fall 2010, Cornell University, *Computation Cognitive Science and Probabilistic Programming* (4 Days; w/ Noah Goodman). [link].

Teaching Assistant

Spring 2008, *Harvard College*, The Human Mind (Steven Pinker)
Fall 2007, *Harvard College*, Introduction to statistics
Summer 2006, *Harvard Extension School*, Introduction to linguistics (Andrew Nevins)
Spring 2003, *University of Edinburgh*, Introduction to theoretical computer science

ADVISING

PhD Thesis

Socolof, Michaela. PhD Candidate. 2022–Present.

Institution: McGill, Linguistics.

Role: Supervisor

Title: Formalizing compositionality using partial information decomposition.

Hoover, Jacob. PhD Candidate. 2022–Present.

Institution: McGill, Linguistics.

Role: Supervisor

Title: Sampling-based sentence processing.

PhD Thesis Supervisory Committee

Sinha, Koustuv. PhD Candidate. 2021–Present.

Institution: McGill University, Computer Science.

Role: Committee member.

Title: Systematic evaluation of natural language understanding models.

Hofer, Matthias. PhD Candidate. 2020–Present.

Institution: Massachusetts Institute of Technology, Brain and Cognitive Sciences.

Role: Committee member.

Title: Learning and evolving combinatorial structure in cultural symbol systems.

Braginsky, Mika. PhD Candidate. 2020–2022.

Institution: Massachusetts Institute of Technology, Brain and Cognitive Sciences.

Role: Committee member.

Title: Language learning at scale: Data-driven and model-motivated analyses of lexical and morphological development.

Arora, Kushal. PhD Candidate. 2019–Present.
Institution: McGill University, Computer Science.
Role: Committee member.
Title: Beyond MLE: Training and inference algorithms for training robust language generation models.

Jiang, Bing'er. PhD (Current: Postdoc, KTH Stockholm). 2019–2021.
Institution: McGill, Linguistics.
Role: Committee member.
Title: Computational and behavioural approaches to understanding perception of speech variability.

Harasim, Daniel. PhD (Current: Postdoc, EPFL Switzerland). 2018–2020.
Institution: École Polytechnique Fédérale Lausanne, Musicology.
Role: Committee member.
Title: The learnability of the grammar of jazz: Bayesian inference of hierarchical structures in harmony.

PhD Evaluation Paper, Chapter, or Project Publication

Doucette, Amanda. 2020–2022.
Institution: McGill, Linguistics.
Role: Co-supervisor (w/ Morgan Sonderegger).
Title: A universal tendency towards vowel harmony and consonant disharmony.
Scope: Evaluation paper.

Socolof, Michaela. 2020–2022.
Institution: McGill, Linguistics.
Role: Supervisor
Project: Characterizing idioms: Conventionality and contingency.
Scope: Evaluation paper.

Hoover, Jacob. 2020–2022.
Institution: McGill, Linguistics.
Role: Co-supervisor (w/ Morgan Sonderegger).
Title: With better language models, processing time is superlinear in surprisal.
Scope: Evaluation paper.

Chakraborty, Aishik. 2019–Present.
Institution: McGill University, Computer Science.
Role: Co-supervisor (w/ Jackie Cheung).
Title: Systematic generalization by finetuning? Analyzing pretrained language models using constituency tests.
Scope: Conference paper.

Wu, Shijie. 2019.
Institution: Johns Hopkins, Computer Science.
Role: Project co-supervisor (w/ Ryan Cotterell).
Title: Morphological irregularity correlates with frequency.
Scope: Conference paper.

Jiang, Bing'er. 2018-2020.
Institution: McGill, Linguistics.
Role: Co-supervisor (w/ Meghan Clayards).
Project: Modelling perceptual tonal space in Mandarin Chinese continuous speech.

Scope: Evaluation Paper.

Hoover, Jacob. 2018–2020.

Institution: McGill, Linguistics.

Role: Supervisor

Title: Linguistic dependencies and statistical dependence.

Scope: Evaluation paper.

Sinha, Koustuv. Candidate. 2018–2020.

Institution: McGill University, Computer Science.

Role: Project supervisor.

Title: Probing linguistic systematicity.

Scope: Conference paper.

Braginsky, Mika. 2017–2022.

Institution: Massachusetts Institute of Technology, Brain and Cognitive Sciences.

Role: Project co-supervisor.

Title: Similarities and differences among models of productivity.

Scope: PhD thesis chapter.

Portelance, Eva. 2017–2019.

Institution: Stanford, Linguistics.

Role: Project supervisor.

Project: Grammar induction for mildly context sensitive languages using variational Bayesian inference.

Scope: Technical report.

Harasim, Daniel. 2016–2018.

Institution: École Polytechnique Fédérale Lausanne, Musicology.

Role: Co-supervisor (w/ Martin Rohrmeier).

Title: A generalized parsing framework for generative models of harmonic syntax.

Scope: PhD thesis chapter.

Ellis, Kevin. 2015–2022.

Institution: Massachusetts Institute of Technology, Brain and Cognitive Sciences.

Role: Project supervisor.

Title: Synthesizing theories of human language with Bayesian program induction.

Scope: Journal paper.

Morita, Takashi. 2015–2020.

Institution: Massachusetts Institute of Technology, Linguistics.

Role: Project supervisor.

Title: Statistical evidence for learnable lexical subclasses in Japanese.

Scope: Journal paper.

Futrell, Richard. 2014–2016.

Institution: Massachusetts Institute of Technology, Brain and Cognitive Sciences.

Role: Project supervisor.

Project: A generative model of phonotactics.

Scope: Journal paper.

Lee, Jackie. 2013–2015.

Institution: Massachusetts Institute of Technology, Electrical Engineering and Computer Science.

Role: Project co-supervisor (w/ Jim Glass).

Title: Unsupervised lexicon discovery from speech.
Scope: PhD thesis chapter.

Luong, Thang. 2012–2015.
Institution: Stanford, Computer Science.
Role: Project co-supervisor (w/ Noah Goodman).
Project: Evaluating models of computation and storage in human sentence processing.
Scope: Conference paper.

Fullwood, Michelle. 2012–2015.
Institution: Massachusetts Institute of Technology, Linguistics.
Role: Project supervisor.
Title: Learning non-concatenative morphology.
Scope: Conference paper.

Bergen, Leon. 2012–2015.
Institution: Massachusetts Institute of Technology, Brain and Cognitive Sciences.
Role: Project supervisor.
Title: Arguments and modifiers from the learner's perspective.
Scope: Journal paper.

Masters

Goodwin, Emily. 2020–2021.
Institution: McGill, Linguistics.
Role: Co-supervisor.
Project: Compositional generalization in dependency parsing.

Willerton, Vanna. 2019–2020.
Institution: McGill, Linguistics.
Role: Supervisor.
Project: Generalizability of semiregular patterns in English verbal morphology.

Emily, Kellison-Linn. 2018–2019.
Institution: McGill, Linguistics.
Role: Supervisor.
Project: Unsupervised lexicon discovery from speech.

Honors Theses

Huang, Gemma. 2019–2020.
Institution: McGill, Linguistics.
Project: Testing models of English phonotactics.

Xu, Scarlett. 2020–2021.
Institution: McGill, Cognitive Science.
Project: Testing models of phonotactics.

Baylor, Emily. 2018–2019.
Institution: McGill, Linguistics.
Project: Productivity and the German plural.

Adachi-Kriege, Graham. 2018–2019.
Institution: McGill, Cognitive Science.
Project: Overirregularization in language acquisition.

- Blain-Montesano, Yves. 2018–2019.
Institution: McGill, Cognitive Science.
Role: Supervisor.
Project: Approximating fragment grammars.
- Mulhall, Emily. 2017–2018.
Institution: McGill, Cognitive Science.
Role: Co-supervisor (w/ Prakash Panangaden).
Project: Formalizing the rational speech acts model.
- Goodwin, Emily. 2017–2018.
Institution: McGill, Linguistics.
Role: Supervisor.
Title: Probing linguistic systematicity.
- Stengel-Eskin, Elias. 2017–2018.
Institution: McGill, Cognitive Science.
Role: Supervisor.
Title: Unsupervised lexicon discovery from speech.
- Mu, Jesse. 2016–2017.
Institution: Boston College, Computer Science.
Role: Co-supervisor (w/ Joshua Hartshorne).
Project: Evaluating hierarchies of verb argument structure with hierarchical clustering.
- Orfitelli, Robyn. 2005–2006.
Institution: Harvard, Psychology.
Role: Project supervisor.
Title: Word segmentation in cotton-top tamarins (*Saguinus Oedipus*): Applying the comparative approach to language acquisition research.

Other Undergraduate Advising

- LeBrun, Benjamin. 2019–2021.
Institution: McGill, Linguistics.
Role: Co-supervisor (w/ Alessandro Sordoni).
Project: Evaluating distributional distortion in neural language modeling.
- Watt, Maya. 2019–2021.
Institution: McGill, Linguistics.
Project: Processing differences among irregular inflection classes.
- Yu, Jade. 2019.
Institution: McGill, Computer Science.
Role: Supervisor.
Title: One-shot learning of phonetic concepts.
- Drezner, Nathan. 2019.
Institution: McGill, Computer Science.
Role: Supervisor.
Title: Generalization in the German plural.
- Taubenblatt, Benji. 2018.
Institution: McGill, Linguistics.
Role: Supervisor.

Title: Minimalist parsing.

Chen, Seara. 2018.

Institution: McGill, Computer Science.

Role: Supervisor.

Title: Large-scale testing of phonotactics judgments.

Theos, Gregory. 2017–2019.

Institution: McGill, Linguistics.

Role: Supervisor.

Title: Analysis of lexical decision data.

SERVICE TO
UNIVERSITY AND
LOCAL COMMUNITY

Administrative Appointments

Director, Cognitive Science Program. 2022–Present.

Committees

Cognitive Science Committee, *Linguistics Representative*. 2017–2022.

Internal/External Examiner or Non-Advising Defense Committee Member

Noseworthy, Michael Scott. McGill, CS. 2017. MSc. thesis defense.

Long, Teng. McGill, CS. 2017. MSc. thesis external examiner.

Nobandegani, Ardavan Salehi. McGill, EECS. 2017. PhD defense.

Sinha, Koustuv. McGill, CS. 2018. MSc. thesis external examiner.

Pérez Gay Juárez, Fernanda. 2018. McGill, Psychology. PhD thesis defense.

Goodhue, Daniel. McGill, Linguistics. 2018. PhD thesis defense.

Codere Corbeil, Maxime. UQAM, Linguistics. 2018. Qualifying paper defense.

Parthasarathi, Prasanna. McGill, CS. 2019. PhD proposal defense.

Sinha, Koustuv. McGill, CS. 2020. PhD proposal defense.

Lowe, Ryan. McGill, CS. 2020. PhD thesis defense.

Hsieh, Henrison. McGill, Linguistics. 2020. PhD thesis defense.

Harada, Masashi. McGill, Linguistics. 2022. PhD thesis defense.

Other Service to University and Local Community

Reasoning and Learning Laboratory, *Associate Member*. 2017–Present.

Mila, the Québec AI Institute, *Associate Member*. 2018–2020.

Centre for Research on Brain, Language and Music, *Full Member*. 2018–Present.

Centre for Social and Cultural Data Science, *Full Member*. 2019–Present.

McGill NLP Group, *Core Faculty Member*. 2020–Present.

Mila, the Québec AI Institute, *Core Member*. 2020–Present.

SERVICE TO
DEPARTMENT

Administrative Appointments

Graduate Program Director. 2018–2019.

Search Committees

Provostial AI Position, Tenure Track Assistant Professor, *Chair*. 2018–2019.

Experimental Linguistics Position, Tenure Track Assistant Professor. 2017–2018.

Syntax Position, Tenure Track Assistant Professor. 2018–2019.

Standing Committees

Graduate Admissions Committee. 2017–2022.

Graduate Assessment Committee. 2017–2022.

Other Committees

Graduate Program Revision Committee, *Co-Chair*. 2019–2021.
Departmental Space Committee. 2022.
Merit Evaluation Committee. 2019.
Website Committee. 2018.
Student Awards Committee. 2019.
Cyclical Review. 2018.
Department-Level Search Committees. 2017, 2018, 2019.

Other

McLing Blog Faculty Editor. 2017–2022.

SERVICE TO THE PROFESSION

Organizing and Editing

2019-2021, Special Issue of *Journal of Language Modeling*

Position: Co-Editor (with Roni Katzir and Ezer Rasin).

Topic: Simplicity in Grammar Learning.

2020, Conference on Computational Natural Language Learning (CoNLL2020)

Position: Area Co-Chair.

Area: Language Evolution and Linguistic Theories.

2020, Empirical Methods in Natural Language Processing (EMNLP2020)

Position: Area Co-Chair.

Area: Linguistic Theories, Cognitive Modeling, and Psycholinguistics.

2020, Annual Meeting of the Cognitive Science Society (CogSci2020)

Position: Meta-Reviewer.

2018, Association for Computational Linguistics (ACL2018)

Position: Area Co-Chair.

Area: Linguistic Theories, Cognitive Modeling, and Psycholinguistics.

2015, 6th Annual Workshop on Cognitive Modeling and Computational Linguistics (CMCL2015)

Position: Co-Organizer (with Marten van Schijndel).

2014, 5th Annual Workshop on Cognitive Modeling and Computational Linguistics (CMCL2014)

Position: Co-Organizer (with Vera Demberg).

Reviewing

Journals

Behavior Research Methods, 2012 [1]¹

Cognition, 2012 [2]

Cognitive Science, 2017 [1], 2014 [1]

IEEE Transactions on Audio, Speech and Language Processing, 2015 [1]

Journal of Language Modeling, 2020 [1]

Journal of Psycholinguistics Research, 2021 [1]

Language and Speech, 2012 [1]

Linguistic Inquiry, 2017 [1]

TopiCS in Cognitive Science, 2018 [1], 2012 [2]

Transactions of the Association for Computational Linguistics, 2020 [1], 2019 [1], 2018 [1]

Conference Papers

ACL Special Interest Group on Natural Language Learning (CONLL), 2020 [2]

¹Number in brackets after year indicate number of papers reviewed.

Association for Computational Linguistics (ACL), 2017 [2], 2016 [3], 2014 [5], 2013 [2]
Association for the Advancement of Artificial Intelligence (AAAI), 2016 [6]
Cognitive Aspects of Computational Language Learning (CogACLL), 2016 [2], 2015 [2]
Cognitive Modeling and Computational Linguistics (CMCL), 2017 [3], 2013 [2]
Cognitive Science Society (CogSci), 2021 [2], 2020 [4], 2013 [3]
Empirical Methods in Natural Language Processing (EMNLP), 2020 [3], 2015 [5]
European Chapter of the Association for Computational Linguistics (EACL), 2020 [3], 2017 [1], 2016 [2]
International Conference on Computational Linguistics (COLING), 2020 [4]
Neural Information Processing Systems (NeurIPS), 2013 [3], 2011 [1]
North American Chapter of the Association for Computational Linguistics (NAACL), 2018 [3]
Society for Computation in Linguistics (SciL), 2019 [1], 2018 [1], 2017 [1]

Conference Abstracts

Boston University Conference on Child Language Development (BUCLD), 2020 [11]
Conference on the Evolution of Language (EvoLang), 2017 [1]
Generative Linguistics in the Old World (GLOW), 2019 [4]
Human Sentence Processing (HSP formerly CUNY), 2018 [1], 2017 [2]

Book Chapters

Wiener Linguistische Gazette, 2017 [1]

Book Proposals

Cambridge University Press, 2018 [1]

Funding Agencies

National Science Foundation, 2017 [1], 2016 [2]

Other Service to the Profession

American Slovenian Education Fund, *Member*. 2020–Present.
TandemLaunch, *Academic Advisor*. 2019–Present.