

Morgan Sonderegger

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EMPLOYMENT

McGill University

Associate Professor, Department of Linguistics (primary)	6/2018–present
Full Member, Centre for Research on Brain, Language, and Music	9/2013–present
Associate Member, School of Computer Science	5/2013–present
Assistant Professor, Department of Linguistics	1/2013–6/2018
Assistant Professor (special category), Department of Linguistics	8/2012–12/2012

EDUCATION

University of Chicago

Ph.D, Computer Science and Linguistics	2012
• Dissertation: <i>Phonetic and phonological dynamics on reality television</i>	
• Advisor: John Goldsmith	
• Committee: Joseph Keshet, Jason Riggle, Anne Rogers, Alan Yu	
M.S. Computer Science	2009
• Thesis: <i>Dynamical systems models of language variation and change: An application to an English stress shift</i>	
• Advisor: Partha Niyogi	

Cambridge University

Certificate of Advanced Study in Mathematics	2007
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Massachusetts Institute of Technology

B.S. History	2005
B.S. Physics (Mathematics minor)	2004

OTHER ACADEMIC EXPERIENCE

LSA Summer Institute , Berkeley, CA	2009
International School on Complexity , Erice, Italy	7/2007

GRANTS AND AWARDS

External grants and awards, as Primary Applicant

- **Canada Research Chair in Speech Variability** (Tier II), 2023-2028: #CRC-2023-00009 — \$600,000.
- **NSERC Discovery Grant**, 2023–2028: “Explaining sound change through mapping the distribution of phonetic biases and automatic speech analysis” #RGPIN-2023-04873 — \$302,725.
- **SSHRC Insight Grant**, 2017–2023: “Uncovering the structure and sources of speech variability through large-scale studies” #435-2017-0925 — \$196,720. (Includes one-year funding deferral due to parental leave.)
- **Trans-Atlantic Platform Digging into Data**, 2017–2020: “SPeech Across Dialects of English (SPADE): large-scale digital analysis of a spoken language across space and time”. Total project value across Canada, UK, USA (Apr 2017): CAD 799,236. Directly responsible for:
 - **NSERC** #RGPDD 501771-16 — \$99,403
 - **SSHRC** #869-2016-0006 — \$99,833
- **Ministère des Relations internationales et de la Francophonie Coopération Québec-Israël**, 2017–2018: “Vers un outil pour l’étude de la parole humaine à grande échelle” — \$4,500

- **SSHRC Insight Development Grant**, 2014–2017: “Variability in the voicing contrast across languages and over time: corpus and simulation studies” #430-2014-00018 — \$74,160
- **FRQSC Établissement de Nouveaux professeurs-chercheurs**, 2014–2017: “Variabilité interlinguistique et temporelle dans les contrastes sonores voisés et non-voisés : une application à grande échelle” #183356 — \$39,558
- **Canada Foundation for Innovation John R. Evans Leaders Fund**, 2013–2018: “Language Modelling Laboratory” #32451 — \$229,659

External grants and awards, as non-Primary Applicant

As *Collaborator*:

- **SSHRC Insight Grant**, 2024–2029: “Towards a robust model of individual differences in context effects in speech perception” #435-2024-0996 (Primary Applicant – Meghan Clayards) — \$284,523
- **SSHRC Insight Grant**, 2020–2023: “What makes us flexible? The role of cognitive control and sensory representations in spoken word recognition” #435-2020-1140 (Primary Applicant – Meghan Clayards) — \$179,668
- **Healthy Brains Healthy Lives (HBHL) Innovative Ideas Competition**, 2018–2020: “Understanding resilience and disease by using language and the brain to predict individual outcomes” (Primary Applicant – Denise Klein) — \$170,000
- **SSHRC Insight Grant**, 2014–2019: “Breaking into the Acoustic Stream: The role of allophonic patterns in processing language” #435-2014-1504 (Primary Applicant – Michael Wagner) — \$240,750
- **SSHRC Partnership Development Grant**, 2013–2016: “Developing mobile learning applications for the Mi’kmaq language: New opportunities for language research and revitalization” #890-2012-0091 (Primary Applicant – Jessica Coon) — \$200,000
- **Leverhulme Trust (UK)**, 2011–2014: “Fine phonetic variation and sound change: A real-time study of Glaswegian” #RPG-142 (PI – Jane Stuart-Smith, U. Glasgow) — GBP 235,782.

Internal grants and awards

- **McGill Arts Research Internship Awards**, 2014, 2016, 2018, 2022 — \$2,000 each
- **Paper Presentation Grant**, 2014, 2017, 2023 — \$1,500 each
- **McGill Dean of Arts Development Fund**, 2014 — \$1,700
- *Co-applicant*: **McGill Collaborative Research and Development Fund**, 2013–2014: “Variability in Speech: New Tools for a New Era of Language Research” (Primary Applicant – Meghan Clayards) \$20,000
- **McGill University startup fund**, 2012 — \$65,500

PUBLICATIONS

Books

Sonderegger, M. (2023). *Regression Modeling for Linguistic Data*. Cambridge, MA: MIT Press. Online materials: <https://doi.org/10.17605/OSF.IO/PNUMG>.

Sonderegger, M., Michael Wagner, and Francisco Torreira. (2018). *Quantitative Methods for Linguistic Data*. Available at <http://people.linguistics.mcgill.ca/~morgan/qmld-book>. (Online textbook)

Papers in peer-reviewed journals

Ting, C., Sonderegger, M., Clayards, M., & McAuliffe, M. (in press). The cross-linguistic distribution of vowel and consonant intrinsic F0 effects. To appear in *Language*. Available at <https://psyarxiv.com/64nhs/>.

- Doucette, A., Goad, H., O'Donnell, T., & Sonderegger, M. (accepted) Investigating the universality of consonant and vowel co-occurrence restrictions. To appear in *Glossa*. Available at <https://ling.auf.net/lingbuzz/008234>.
- Hoover, J., Sonderegger, M., Piantidosi, S., & O'Donnell, T. (2023) The plausibility of sampling as an algorithmic theory of sentence processing. *Open Mind*, 7, 350–391. https://doi.org/10.1162/opmi_a_00086.
- Moghiseh, E., Sonderegger, M., & Wagner, M. (2023). The Iambic-Trochaic Law without Iambs or Trochees: Parsing speech for grouping and prominence. *Journal of the Acoustical Society of America*, 153(2), 1108–1129. <https://doi.org/10.1121/10.0017170>.
- Jiang, B., Clayards, M., & Sonderegger, M. (2020). Individual and dialect differences in perceiving secondary cues: A tonal register contrast in two Chinese Wu dialects. *Laboratory Phonology*. 11(1), 1–30. <http://doi.org/10.5334/labphon.266>
- Tanner, J., Sonderegger, M., & Stuart-Smith, J. (2020) Structured speaker variability in Japanese stops: relationships within and across cues to stop voicing. *Journal of the Acoustical Society of America*. 148(2), 793–804. <https://doi.org/10.1121/10.0001734>
- Tanner, J., Sonderegger, M., Stuart-Smith, J., & Josef Fruehwald. (2020) Towards ‘English’ phonetics: variability in the pre-consonantal voicing effect across English dialects and speakers. *Frontiers in Artificial Intelligence*. <https://doi.org/10.3389/frai.2020.00038>.
- Sonderegger, M., Stuart-Smith, J., Macdonald, R., Knowles, T., & Rathcke, T. (2020). Structured heterogeneity in Scottish stops over the twentieth century. *Language*. 96(1), 94–125. <https://doi.org/10.1353/lan.2020.0003>
- Tanner, J., Sonderegger, M., & Torreira, F. (2019). Durational evidence that Tokyo Japanese vowel devoicing is not gradient reduction. *Frontiers in Psychology*, 10, article 821. doi:10.3389/fpsyg.2019.00821. (5 pages)
- Schwarz, M., Sonderegger, M., & Goad, H. (2019). Realization and representation of Nepali laryngeal contrasts. *Journal of Phonetics*, 73, 113–127.
- Knowles, T., Clayards, M., & Sonderegger, M. (2018). Examining factors influencing the viability of automatic acoustic analysis of child speech. *Journal of Speech, Language, and Hearing Research*, 61, 2487–2501.
- Kirby, J., & Sonderegger, M. (2018). Mixed-effects design analysis for experimental phonetics. *Journal of Phonetics*, 70, 70–85.
- Bang, H., Sonderegger, M., Kang, Y., Clayards, M., & Yoon, T. (2018). The emergence, progress, and impact of sound change in Seoul Korean: implications for mechanisms of tonogenesis. *Journal of Phonetics*, 66, 120–144.
- Sonderegger, M., M. Bane, & P. Graff. (2017). The medium-term dynamics of accents on reality television. *Language*, 93(3), 598–640.
- Tanner, J., Sonderegger, M., & Wagner, M. (2017). Production planning and coronal stop deletion in spontaneous speech. *Laboratory Phonology*, 8(1), 15. <http://doi.org/10.5334/labphon.96>. (37 pages)
- Kilbourn-Ceron, O., & Sonderegger, M. (2017). Boundary phenomena and variability in Japanese high vowel devoicing. *Natural Language and Linguistic Theory*, 36(1), 175–217.
- Stuart-Smith, J., Sonderegger, M., Macdonald, R., & Rathcke, T. (2015). The private life of stops: VOT in a real-time corpus of spontaneous Glaswegian. *Laboratory Phonology*, 6(3-4), 505–549.
- Carlson, M., Sonderegger, M., & Bane, M. (2014). How children explore the phonological network in child-directed speech: A survival analysis of children’s first word productions. *Journal of Memory and Language*, 75, 159–180.
- Yu, A.C.L., Abrego-Collier, C., & Sonderegger, M. (2013). Phonetic imitation from an individual-

difference perspective: subjective attitude, personality and “autistic” traits. *PLOS ONE*, 8(9), e74746. <https://doi.org/10.1371/journal.pone.0074746>. (13 pages)

Sonderegger, M., & Keshet, J. (2012). Automatic measurement of voice onset time using discriminative structured prediction. *Journal of the Acoustical Society of America*, 132(6), 3965–3979.

Sonderegger, M. (2011). Applications of graph theory to an English rhyming corpus. *Computer Speech and Language*, 25, 655–678.

Bane, M., Riggle, J., & Sonderegger, M. (2010). The VC dimension of constraint based grammars. *Lingua*, 120, 1194–1208.

Chi, X., & Sonderegger, M. (2007). Subglottal coupling and its influence on vowel formants. *Journal of the Acoustical Society of America*, 122(3), 1735–1745.

Papers in peer-reviewed edited volumes

Kirby, J., & Sonderegger, M. (accepted). Actuation without production bias. To appear in F. Kleber & T. Rathcke (Eds.), *Speech Dynamics: Synchronic Variation and Diachronic Change* (pp. 399–427). Berlin: de Gruyter.

Sonderegger, M., Stuart-Smith, J., McAuliffe, M., Macdonald, R., & Kendall, T. (2022). Managing data for integrated speech corpus analysis in SPeECH Across Dialects of English (SPADE). In A.L. Berez-Kroeker, B. McDonnell, E. Koller, & L.B. Collister (Eds.), *Open Handbook of Linguistic Data Management* (pp. 195–208). Cambridge, MA: MIT Press.

Kirby, J., & Sonderegger, M. (2018). Model selection and phonological argumentation. In D. Brentari & J.S. Lee (Eds.), *Shaping Phonology: A festschrift for John Goldsmith* (pp. 234–252). Chicago: University of Chicago Press.

Stuart-Smith, J., Rathcke, T., Sonderegger, M., & Macdonald, R. (2015). A real-time study of plosives in Glaswegian using an automatic measurement algorithm: change or age-grading? In E.N. Torgersen, S. Hårstad, B. Mæhlum, & U. Røyneland (Eds.), *Language Variation – European Perspectives V* (pp. 225–237). Amsterdam: John Benjamins.

Sonderegger, M. & Niyogi, P. (2013). Variation and change in English noun/verb pair stress: Data, dynamical systems models, and their interaction. In A.C.L. Yu (Ed.), *Origins of Sound Patterns: Approaches to Phonologization* (pp. 262–284). Oxford: Oxford University Press.

Papers in conference proceedings

Tanner, J., Sonderegger, M., Kendall, T., Stuart-Smith, J., Mielke, J., Thomas, E., Dodsworth, R., & The SPADE Consortium. (2024). Exploring the anatomy of articulation rate in spontaneous English speech: relationships between utterance length effects and social factors. *Proceedings of Interspeech 2024*.

Smith, I., Sonderegger, M., & The SPADE Consortium. (2024). Modelled Multivariate Overlap: A method for measuring vowel merger. *Proceedings of Interspeech 2024*.

Doucette, A., Cotterell, R., Sonderegger, M., & O’Donnell, T. (2024). Correlation Does Not Imply Compensation: Complexity and Irregularity in the Lexicon. *Proceedings of the Society for Computation in Linguistics*.

Sonderegger, M., Stuart-Smith, J., Mielke, J., & The SPADE Consortium. (2023). How variable are English sibilants? In R. Skarnitzl & J. Volín (Eds.), *Proceedings of the 20th International Congress of Phonetic Sciences* (pp. 3196–3200).

Tanner, J., Sonderegger, M., Stuart-Smith, J. (2022). Multidimensional acoustic variation in vowels across English dialects. In *Proceedings of the 19th SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology* (pp. 72–82). **(Best Paper Award)**

Jiang, B., Dunbar, E., Sonderegger, M., Clayards, M., & Dupoux, E. (2020). Modelling Perceptual Effects of Phonology with ASR Systems. In *Proceedings of the 42nd Annual Meeting of the Cognitive Science Society* (pp. 2735–2741).

- Tanner, J., Sonderegger, M., Stuart-Smith, J., & The Spade Consortium. (2019). Vowel duration and the voicing effect across English dialects. In *Toronto Working Papers in Linguistics*, Volume 41(1) (13 pages). <https://doi.org/10.33137/twpl.v41i1.32769>
- Tanner, J., Sonderegger, M., Stuart-Smith, J. (2019). Structured speaker variability in spontaneous Japanese stop contrast production. In *Proceedings of the 19th International Congress of Phonetic Sciences* (pp. 666–670).
- Mielke, J., Thomas, E., Fruehwald, J., Stuart-Smith, J., Sonderegger, M., Dodsworth, R., McAuliffe, M. (2019). Age vectors vs. axes of intraspeaker variation in vowel formants measured automatically from several English speech corpora. In *Proceedings of the 19th International Congress of Phonetic Sciences* (pp. 1258–1262).
- Stuart-Smith, J., Sonderegger, M., Macdonald, R., Mielke, J., McAuliffe, M., and Thomas, E. (2019). Large-scale acoustic analysis of dialectal and social factors in English /s/-retraction. In *Proceedings of the 19th International Congress of Phonetic Sciences* (pp. 1273–1277).
- McAuliffe, M., Coles, A., Goodale, M., Mihuc, S., Wagner, M., Stuart-Smith, J., & Sonderegger, M. (2019). ISCAN: a system for integrated phonetic analyses across speech corpora. In *Proceedings of the 19th International Congress of Phonetic Sciences* (5 pages).
- McAuliffe, M., Socolof, M., Mihuc, S., Wagner, M., & Sonderegger, M. (2017). Montreal Forced Aligner: trainable text-speech alignment using Kaldi. In *Proceedings of Interspeech 2017* (pp. 498–502). <http://dx.doi.org/10.21437/Interspeech.2017-1386>.
- McAuliffe, M., Stengel-Eskin, E., Socolof, M., & Sonderegger, M. (2017). Polyglot and Speech Corpus Tools: a system for representing, integrating, and querying speech corpora. In *Proceedings of Interspeech 2017* (pp. 3887–3891). <http://dx.doi.org/10.21437/Interspeech.2017-1390>.
- Sonderegger, M. (2016/2010). Testing for frequency and structural effects in an English stress shift. In N. Rolle, J. Steffman, J. Sylak-Glassman (Eds.), *Proceedings of the 36th Annual Meeting of the Berkeley Linguistics Society* (pp. 411–425).
- Knowles, T., Clayards, M., Sonderegger, M., Wagner, M., Nadig, A., & Onishi, K. (2015). Automatic Forced Alignment on Child Speech: Directions for Improvement. *Proceedings of Meetings on Acoustics*, 25, 060001. <http://dx.doi.org/10.1121/2.0000125>. (6 pages)
- Sonderegger, M. (2015). Trajectories of voice onset time in spontaneous speech on reality TV. In Scottish Consortium for ICPhS 2015 (eds.), *Proceedings of the 18th International Congress of Phonetic Sciences* (Paper 903). (5 pages)
- Tanner, J., Sonderegger, M., & Wagner, M. (2015). Production planning and coronal stop deletion in spontaneous speech. In Scottish Consortium for ICPhS 2015 (eds.), *Proceedings of the 18th International Congress of Phonetic Sciences* (Paper 933). (5 pages)
- Bang, H., Sonderegger, M., Kang, Y., Clayards, M., & Yoon, T. (2015). The effect of word frequency on the timecourse of tonogenesis in Seoul Korean. In Scottish Consortium for ICPhS 2015 (eds.), *Proceedings of the 18th International Congress of Phonetic Sciences* (Paper 843). (5 pages)
- Ciot, M., Sonderegger, M., & Ruths, D. (2013). Gender inference of Twitter users in non-English contexts. In *Proceedings of the 2013 Conference on Empirical Methods in Natural Language Processing* (pp. 1136–1145).
- Kirby, J. & Sonderegger, M. (2013). A model of population dynamics applied to phonetic change. In *Proceedings of the 35th Annual Conference of the Cognitive Science Society* (pp. 776–781). Austin, TX: Cognitive Science Society.
- Bane, M., Graff, P. & Sonderegger, M. (2013/2010). Longitudinal phonetic variation in a closed system. In A. Baker, et al. (Eds.), *Proceedings of the 46th Annual Meeting of the Chicago Linguistics Society* (pp. 43–58).
- Henry, K., Sonderegger, M., & Keshet, J. (2012). Automatic measurement of positive and negative voice onset time. In *Proceedings of Interspeech 2012*. (4 pages)

Abrego-Collier, C., Grove, J., Sonderegger, M., & Yu, A.C.L. (2011). Effects of speaker evaluation on phonetic convergence. In W. Lee & E. Zee (Eds.), *Proceedings of the 17th International Congress of Phonetic Sciences* (pp. 192–195).

Yu, A.C.L., Martinović, M., Grove, J., & Sonderegger, M. (2011). Effects of working memory capacity and “autistic traits” on phonotactic effects in speech perception. In W. Lee & E. Zee (Eds.), *Proceedings of the 17th International Congress of Phonetic Sciences* (pp. 2236–2239).

Carlson, M., Bane, M., & Sonderegger, M. (2011). Global properties of the phonological network in child-directed speech. In N. Danis, K. Mesh, & H. Sung (Eds.), *BUCLD 35: Proceedings of the 35th Annual Boston University Conference on Language Development* (pp. 97–109).

Sonderegger, M. & Niyogi, P. (2010). Combining data and mathematical models of language change. In *Proceedings of the 48th Annual Meeting of the Association for Computational Linguistics* (pp. 1019–1029).

Sonderegger, M. & Keshet, J. (2010). Automatic discriminative measurement of voice onset time. In *Proceedings of Interspeech 2010* (pp. 2242–2245).

Sonderegger, M. & Yu, A.C.L. (2010). A rational account of perceptual compensation for coarticulation. In S. Ohlsson & R. Catrambone (Eds.), *Proceedings of the 32nd Annual Conference of the Cognitive Science Society* (pp. 375–380). Austin, TX: Cognitive Science Society.

Other writings

Sonderegger, M. & Sóskuthy, M. (2024). Advancements of Phonetics in the 21st century: Quantitative data analysis. Submitted.

Tavakoli, S., Matteo, B., Pigoli, D., Chodroff, E., Coleman, J., Gubian, M., Renwick, M., & Sonderegger, M. (2024). Statistics in phonetics research. Revision requested.

Lipari, M. & Sonderegger, M. (2023). A new perspective on the development of Quebec French rhotic vowels. Revision requested.

Kirby, J. & Sonderegger, M. (2015). Bias and population dynamics in the actuation of sound change. arXiv 1507.04420 [cs.CL]. Available at <https://arxiv.org/abs/1507.04420>. (30 pages)

Sonderegger, M. (2002) Transitions between nonequilibrium steady states. In Technical Report 02-5599, Los Alamos National Laboratory. (6 pages)

PRESENTATIONS & WORKSHOPS

Invited presentations

‘Vowel variation across English dialects: variation in formant dynamics and duration’. Newcastle Linguistics Group, 5/2024. (with J. Tanner, J. Stuart-Smith, et. al.)

‘New perspectives on speech variability from large-scale studies’. Colloquium talk, UCLA, 12/2023.

‘Quantitative analysis for corpus phonetics and phonology’.

- Workshop in *UnLaboratory Phonology: Corpus Approaches* series, Association for Laboratory Phonology. Online, 7/2023.
- Workshop at UCLA Department of Linguistics, 12/2023.

‘New perspectives on speech variability from large-scale studies’. Colloquium talk, UC Berkeley, 1/2023.

‘Corpus studies of variation in obstruent ‘voicing’ across languages and speakers: phonetic variation and implications for phonology’. *Annual Meeting on Phonology 2021*. Toronto, 10/2021. (Keynote)

‘The SPADE project: large-scale analysis of a spoken language across space and time’.

- Colloquium talk, Cornell University, 12/2020
- Social Statistics and Population Dynamics Seminar, McGill University, 2/2020.
- SPADE-PAC-PFC Workshop, University of Glasgow, 2/2020.

- Round Four Digging into Data Challenge Conference, National Science Foundation, 1/2020.
- Language Science Centre, University of Maryland, 9/2019.
- Language Variation and Change Group, University of Edinburgh, 7/2019.
- Glasgow University Laboratory of Phonetics, Glasgow University, 5/2019.
- Laboratoire de Sciences Cognitives et Psycholinguistique, École Normale Supérieure, 3/2019.

‘ISCAN and Polyglot: software for integrated storage and phonetic analyses of speech datasets’. Cognitive Machine Learning Group, École Normale Supérieure, 4/2019.

‘Accent dynamics on reality television’. Colloquium talk, Département d’études cognitives, École Normale Supérieure, 4/2019.

‘Topics in fitting and using mixed-effects regression models’. Workshop at University of Oregon, 10/2018.

‘Towards larger-scale cross-linguistic and cross-variety studies of speech’. Colloquium talk, University of Oregon, 10/2018.

‘Integrated Speech Corpus ANalysis – ISCAN: A new tool for large-scale, cross-corpus, sociolinguistic analysis’. Workshop at *New Ways of Analysing Variation 47*. New York University, 10/2018. (with J. Stuart-Smith, J. Tanner, V. Willerton, M. McAuliffe)

‘Towards large(r)-scale cross-linguistic study of speech: prosodic case studies’. Colloquium talk, Northwestern University, 6/2018.

‘Exploiting individual differences in speech research: methods and examples’. *Workshop on Approaches and Issues in the Study of Variability in Language Processing*. Northwestern University, 5/2018. (Keynote)

‘Towards large(r) scale cross-linguistic study of speech: case studies of segmental influences on pitch and duration compression effects’. Colloquium talk, Boston University, 3/2018.

‘Large(r) scale cross-linguistic study of speech sounds: case studies of laryngeal stop contrasts and segmental influences on pitch’. *Séminaires de Recherches en Phonétique et Phonologie*. Laboratoire de Phonologie et Phonétique, Paris III, 9/2017.

‘Speech Corpus Tools: an application for easier analysis of large speech corpora’. *Workshop on Tools for Big Data in Laboratory Phonology*. Cornell University, 7/2016. (with M. McAuliffe)

‘The medium-term dynamics of accents on reality television’. Glasgow University Laboratory of Phonetics, Glasgow University, 5/2016.

‘Population dynamics in the actuation of sound change’. Centre for Language Evolution, University of Edinburgh, 5/2016. (with J. Kirby)

‘Easier speech corpus analysis: A practical introduction to Montreal Corpus Tools’. One-day workshop, sponsored by the Scottish Graduate School of Social Science. University of Glasgow, 4/2016. (with M. McAuliffe)

‘The medium-term dynamics of accents on reality television’. *The 13th Annual Martin Luther King Day Linguistics Symposium*. The Ohio State University, 1/2016. (Keynote)

‘The role of prosodic variability in explaining segmental variability: Two corpus studies’. *Third Conference on Experimental and Theoretical Advances in Prosody (ETAP III)*. University of Illinois at Urbana-Champaign, 5/2015. (Keynote)

‘Population dynamics in the actuation of sound change’. Cornell Phonetics Laboratory, Cornell University, 5/2015.

‘The dynamics of sounds and contrasts on reality television’. Colloquium talk, Cornell University, 5/2015.

‘The structure of variability in spontaneous speech: evidence from voice onset time’. Colloquium talk, Carleton University, 4/2015.

- ‘Actuation without production bias’. *3rd Biennial Workshop on Sound Change*, Berkeley, CA, 5/2014. (with J. Kirby)
- ‘Automatic discriminative measurement of voice onset time’. Séminaires R-D, Centre de recherche informatique de Montréal, 12/2013.
- ‘Phonetic and phonological variation on reality television: dynamics and interspeaker variation’. Phonology Circle, Massachusetts Institute of Technology, 12/2013.
- ‘The dynamics of sounds on reality television’. Colloquium talk, University of Toronto, 11/2013.
- ‘Voice onset time: automatic measurement and corpus studies’. Phonetics/Phonology Group and Psycholinguistics Group, University of Toronto, 11/2013.
- ‘Commentary: Computational models of sound change actuation’. *Workshop on Sound Change Actuation*, Chicago, 4/2013. (with J. Kirby)
- ‘Longitudinal phonetic and phonological dynamics on reality television’
- *McGill Canadian Conference of Linguistics Undergraduates* (McCCLU), McGill University, 3/2013
 - Colloquium talk, University of British Columbia, 12/2012
 - Cognitive Psychology Brown Bag Seminar, McGill University, 12/2012
 - Colloquium talk, University of Ottawa, 10/2012
 - Language Evolution Workshop, University of Edinburgh, 5/2012
 - Colloquium talk, McGill University, 2/2012
 - Colloquium talk, University of Michigan, 2/2012
 - Speech Research Group, Indiana University, 1/2012
- ‘The impact of phonological network structure in child-directed speech on children’s word learning: A survival analysis’. *Language and Network Science 2012*, Evanston (Illinois), 6/2012. (with M. Carlson & M. Bane)
- ‘Combining longitudinal data and mathematical models of sound change’. *Second Workshop on Sound Change*, Kloster Seeon, Germany, 5/2012.
- ‘Rhyme graphs’. Phonology Seminar, University of California at Los Angeles, 5/2011.
- ‘Longitudinal phonetic variation in a closed system’. University of Minnesota, 3/2011.
- ‘The diachronic dynamics of English noun/verb pair stress’
- Language Universals Workshop, Harvard University, 11/2012
 - Colloquium talk, Indiana University, 2/2012
 - University of Pennsylvania, 1/2011
- ‘Automatic discriminative measurement of voice onset time’
- *Illinois Speech Day 2010*, TTI-Chicago, 5/2010. (with J. Keshet)
 - Center for Speech and Language Research, University of Edinburgh, 5/2012
- ‘Orwellian Linguistics: Longitudinal phonetic variation in a closed system’. Phonatics Group, Northwestern University, 3/2010. (with M. Bane)
- ‘Mathematical models of variation and change: An application to an English stress shift’. Language Dynamics Group, Northwestern University, 12/2008. (with P. Niyogi)
- ‘Subglottal coupling as a quantal basis for the feature [back]’. *156th meeting of the Acoustical Society of America*, Miami, 11/2008. (with X. Chi)
- ‘Subglottal coupling and vowel space’. Speech Communication Group, MIT, 3/2004. (with X. Chi)

Conference and Workshop Presentations

- Zhang, W., Clayards, M., & Sonderegger, M. Exploring the link between perception and imitation of Mandarin flat-falling tonal contrast at individual level. *Phonetic Imitation Workshop*, Seoul, 6/2024.
- Brown, J. & Sonderegger, M. La voix craquée en français laurentien: *Les français d'ici. 9*. Shippagan, Canada, 6/2024.
- Lipari, M., Sonderegger, M., & Clayards, M. Cross-linguistic differences in the phonetic implementation of /s/. *CorpusPhon 2024*, Seoul, 6/2024.
- Lipari, M., Milne, P., & Sonderegger, M. Les “données trouvées” et la variation phonétique en français québécois. *Les français d'ici. 9*. Shippagan, Canada, 6/2024.
- Brown, J. & Sonderegger, M. Creaky voice across language and gender: A study of Canadian English-French bilingual speech. (Poster) *Laboratory Phonology 19*, Seoul, 6/2024.
- Lipari, M. & Sonderegger, M. The development of rhoticity in the Quebec French vowel system. *Laboratory Phonology 19*, Seoul, 6/2024.
- Smith, I., Sonderegger, M., & The SPADE Consortium. Variation in prenasal allophony across dialects of English. *Laboratory Phonology 19*, Seoul, 6/2024.
- Tanner, J., Sonderegger, M., Kendall, T., Stuart-Smith, J., Mielke, J., Thomas, E., Dodsworth, R., & The SPADE Consortium. Exposing the anatomy of articulation rate across English dialects and speakers. *Laboratory Phonology 19*, Seoul, 6/2024.
- Zhang, W., Clayards, M., & Sonderegger, M. Qualitative differences in Mandarin tone imitation between Mandarin and English speakers. (Poster) *Laboratory Phonology 19*, Seoul, 6/2024.
- Brown, J. & Sonderegger, M. Creaky voice across language and gender: A study of Canadian English-French bilingual speech. (Poster) *186th Meeting of the Acoustical Society of America/Acoustics Week in Canada*, Ottawa, 5/2024.
- Lipari, M. & Sonderegger, M. Spectral properties of Quebec French sibilants. (Poster) *186th Meeting of the Acoustical Society of America/Acoustics Week in Canada*, Ottawa, 5/2024.
- Smith, I. & Sonderegger, M. Quantifying vowel category distinctness using Bayesian modelling. (Poster) *186th Meeting of the Acoustical Society of America/Acoustics Week in Canada*, Ottawa, 5/2024.
- Tanner, J., Sonderegger, M., Kendall, T., Stuart-Smith, J., Mielke, J., Thomas, E., Dodsworth, R. English dialect and speaker variation and the role of anticipatory shortening in articulation rate. *British Association of Academic Phoneticians Colloquium*, Cardiff, 3/2024.
- Smith, I. Sonderegger, M., & Dodsworth, R. PIN/PEN in Raleigh: Socially conditioned unmerger. *2024 Annual Meeting of the American Dialect Society*, New York City, 1/2024.
- Smith, I. & Sonderegger, M. Prenasal coarticulation and allophonic merger of /ɪ/ and /ɛ/ across dialects of English. *Acoustics Week in Canada 2023*, Montreal, 10/2023.
- Smith, I. & Sonderegger, M. Cross-dialectal distribution of PIN-PEN merger in English. *Montreal-Ottawa-Toronto-Hamilton Phonetics & Phonology Workshop 2023*, Hamilton, Ontario, 3/2023.
- He, Y., Sonderegger, M., & Wagner, M. Effect of musicality on the two-dimensional parsing of the Iambic-Trochaic Law. (Poster) *97th Annual Meeting of the Linguistic Society of America*, Denver, Colorado, 1/2023.
- Stuart-Smith, M., Smith, I., Sonderegger, M., & The SPADE Consortium. Sound change is drawn from pools of synchronic variation. *Laboratory Phonology 18*, online, 6/2022.
- Stuart-Smith, M., Smith, I., Sonderegger, M., & The SPADE Consortium. Sound change is drawn from pools of synchronic variation. *British Association of Academic Phoneticians Colloquium*, York, 4/2022.
- Doucette, A., O'Donnell, T., & Sonderegger, M. Identity, similarity, and the OCP: A model of co-occurrence in 107 languages. *Laboratory Phonology 18*, online, 6/2022.

- Ting, C., Clayards, M., & Sonderegger, M. Investigating universality of consonant intrinsic F0 effects. *Laboratory Phonology 18*, online, 6/2022.
- Stuart-Smith, J., Mielke, J., Macdonald, R., Tanner, J., Sonderegger, M., & The SPADE Consortium. Persuading birds of a feather to flock together—reflections on managing and measuring diverse speech corpora in SPADE. *Australian Linguistic Society 2021*, online, 12/2020.
- Stuart-Smith, J., Sonderegger, M., Mielke, J., Tanner, J., Willerton, V., & The SPADE Consortium. Desperately seeking English sibilants: Discovering dialect norms and speaker variability for /s S/ from large-scale multi-dialect analysis. *Laboratory Phonology 17*, Vancouver, 7/2020.
- Tanner, J., Sonderegger, M., Stuart-Smith, J., & The SPADE Consortium. How consistent is the voicing effect across dialects of English?. (Poster) *UK Language Variation and Change 12*, London, 9/2019.
- Mielke, J., Thomas, E., Fruehwald, J., Stuart-Smith, J., Sonderegger, M., Dodsworth, R., & McAuliffe, M. Applying refined automatic formant measurement to determination of the orientations of vowel distributions. (Poster) *177th Meeting of the Acoustical Society of America*, Louisville, KY, 5/2019.
- Tanner, J., Sonderegger, M., Stuart-Smith, J., & The SPADE Consortium. Vowel duration and the ‘voicing effect’ across English dialects and speakers. *Montreal-Ontario-Toronto Phonology/Phonetics Workshop 2019*, Toronto, 3/2019.
- Stuart-Smith, J., M. Sonderegger, M. McAuliffe, R. Macdonald, J. Mielke, E. Thomas and R. Dodsworth. Dialectal and social factors affect the phonetic bases of English /s/-retraction.
 - (Poster) *Laboratory Phonology 16*, Lisbon, 6/2018.
 - *New Ways of Analyzing Variation 47*, New York, 10/2018.
- Thomas, E., Mielke, J., Fruehwald, J., Holley, J., McAuliffe, M., Sonderegger, M., Stuart-Smith, J., Dodsworth, R., & Kendall, T. Age vectors vs. axes of intraspeaker variation for vowel formants in North American and Scottish English.
 - (Poster) *Laboratory Phonology 16*, Lisbon, 6/2018.
 - *New Ways of Analyzing Variation 47*, New York, 10/2018.
- Kellison-Linn, E., & Sonderegger, M. A large-scale study of consonant voicing effects on F0 in spontaneous English speech. (Poster) *Laboratory Phonology 16*, Lisbon, 6/2018.
- Jiang, B., Clayards, M., & Sonderegger, M. Perception and Individual Variability of Tonal Register Contrast in Chinese Wu Dialects. (Poster) *Laboratory Phonology 16*, Lisbon, 6/2018.
- Stuart-Smith, J., M. Sonderegger, R. Macdonald, & M. McAuliffe. Cross-dialectal variation in /s/-retraction in English. *British Association of Academic Phoneticians*, Canterbury, 4/2018.
- Schwarz, M., Sonderegger, M., & Goad, H. Representing a four-way contrast: Nepali, voiced aspirates and laryngeal realism. *Annual Meeting on Phonology 2017*, New York, 9/2017.
- Lamontagne, J., Goad, H. & Sonderegger, M. Variability in French prominence: Evidence for weight sensitivity. (Poster) *Annual Meeting on Phonology 2017*, New York, 9/2017.
- Sonderegger, M., McAuliffe, M., & Bang, H. Segmental influences on F0: a large-scale study of cross-linguistic and interspeaker variability. *Phonetics and Phonology in Europe 2017*, Cologne, Germany, 6/2017.
- Kirby, J. & Sonderegger, M. Model selection and statistical argumentation. *Statistical Methods in Phonetic Sciences*, Cologne, Germany, 6/2017.
- Schwarz, M., Goad, H., & Sonderegger, M. Laryngeal realism and voiced aspirates: the case of Nepali. *Manchester Phonology Meeting 25*, Manchester, England, 5/2017.
- Lamontagne, J., Goad, H., & Sonderegger, M. Evidence of weight sensitivity in Laurentian French prominence assignment. *Annual meeting of the Canadian Linguistics Association*, Toronto, 5/2017.

Sonderegger, M., McAuliffe, M., & Bang, H. Segmental influences on F0: cross-linguistic and interspeaker variability of phonetic precursors. *Fourth Workshop on Sound Change*, Edinburgh, Scotland, 4/2017.

Bang, H., Sonderegger, M., & Clayards, M. Speaker variability in cue weighting of laryngeal contrasts: the relationship to sound change. (Poster) *Fourth Workshop on Sound Change*, Edinburgh, Scotland, 4/2017.

Sonderegger, M., McAuliffe, M., Bozic, J., Bruno, C., Cowley, S., Lamontagne, J., Jiang, B., Schwarz, M., & Su, J. Laryngeal timing across seven languages: phonetic data and their relationship to phonological features.

- *91st Annual Meeting of the Linguistic Society of America*, Austin, Texas, 1/2017.
- *Montreal-Ottawa-Toronto Phonology Workshop 2017*, Université du Québec à Montréal, 3/2017.

Lamontagne, J., Goad, H., & Sonderegger, M. (Poster) The continuation contour in French: Realisation and representation. *2nd Intonation Workshop*, Toronto, 2/2017.

McAuliffe, M., Socolof, M., Mihuc, S., Wagner, M., & Sonderegger, M. Montreal Forced Aligner: an accurate and trainable forced aligner using Kaldi. (Poster) *91st Annual Meeting of the Linguistic Society of America*, Austin, TX, 1/2017.

Lamontagne, J., Goad, H., & Sonderegger, M. Penultimate prominence in Québec French: Internal motivations or English influence? *2017 Annual Meeting of the American Dialect Society*, Austin, Texas, 1/2017.

Bang, H., Sonderegger, M., & Clayards, M.. The relationship of VOT and F0 contrasts across speakers and words in the German voicing contrast. (Poster) *5th Joint Meeting of the Acoustical Society of America and the Acoustical Society of Japan*, Honolulu, 12/2016.

McAuliffe, M., Sonderegger, M., & Wagner, M. A system for unified corpus analysis, applied to polysyllabic shortening across 12 languages.

- (Poster) *15th Conference on Laboratory Phonology*, Ithaca (New York), 7/2016.
- *Montreal-Ottawa-Laval-Toronto Phonology Workshop 2016*, Ottawa, 3/2016.

Bassford, L., Milne, P., & Sonderegger, M.. Attentive speech and clear speech in Quebec French diphthongization. *New Ways of Analyzing Variation 44*, Toronto, 10/2015.

Sonderegger, M., Stuart-Smith, J., Macdonald, R., Knowles, T., & Rathke, T. Stability and change in Scottish stops: a real-time study of three acoustic cues in Glaswegian vernacular. *New Ways of Analyzing Variation 44*, Toronto, 10/2015.

Bang, H., Sonderegger, M., Kang, Y., Clayards, M., & Yoon, T. The Time Course of Tonogenesis; Evidence from Seoul Korean. *Joint meeting of the International Circle of Korean Linguistics and the International Symposium on Korean Linguistics*, Chicago, 7/2015. USA.

Sonderegger, M.. Trajectories of phonetic variability in spontaneous speech on reality TV. (Poster/Oral presentation alternate) *14th Conference on Laboratory Phonology*, Tokyo, Japan, 7/2014.

Stuart-Smith, J., Sonderegger, M., Macdonald, R., Knowles, T., & Rathke, T. The private life of stops: VOT in a real-time corpus of spontaneous Glaswegian. *14th Conference on Laboratory Phonology*, Tokyo, Japan, 7/2014.

Kirby, J. & Sonderegger, M. Actuation without production bias. *Montreal-Ottawa-Laval-Toronto Phonology Workshop 2014*, Montreal, 3/2014.

Buccola, B., & Sonderegger, M. On the expressivity of Optimality Theory versus rules: An application to opaque patterns.

- (Poster) *Phonology 2013*, Amherst, MA, 11/2013.
- *88th Annual Meeting of the Linguistic Society of America*, Minneapolis, 1/2014.

Stuart-Smith, J., Rathke, T., Sonderegger, M., & Knowles, T. A real-time study of plosives in Glaswegian using an automatic measurement algorithm. *New Ways of Analyzing Variation 42*, Pittsburgh, 10/2013.

Rathke, T., Stuart-Smith, J., & Sonderegger, M. A real-time study of plosives in Glaswegian: change or age-grading? *7th International Conference on Language Variation in Europe (ICLaVE)*, Trondheim, 6/2013.

Kirby, J. & Sonderegger, M. A model of population dynamics applied to phonetic change.

- (Poster) *Variation in the Acquisition of Sound Systems*, Ann Arbor, MI, 6/2013.
- (Poster) *Workshop on Sound Change Actuation*, Chicago, 4/2013.
- *Montreal-Ottawa-Toronto Phonology Workshop 2013*, 3/2013.

Carlson, M., Sonderegger, M., & Bane, M. The impact of phonological network structure in child-directed speech on children's word learning: A survival analysis. *87th Annual Meeting of the Linguistic Society of America*, Boston, 1/2013.

Yu, A.C.L., Abrego-Collier, C., & Sonderegger, M. Individual differences in phonetic convergence. (Poster) *International Symposium on Imitation and Convergence in Speech*, Aix-en-Provence, 9/2012.

Yu, A.C.L. & Sonderegger, M. Frequency and longitudinal effects on perceptual compensation for coarticulation. *13th Conference on Laboratory Phonology*, Stuttgart, 7/2012. (**Best paper award**)

Yu, A.C.L. & Sonderegger, M.. Frequency effects on perceptual compensation for coarticulation. *86th Annual Meeting of the Linguistic Society of America*, Portland, 1/2012.

Yu, A.C.L., Abrego-Collier, C., & Sonderegger, M. Effects of speaker evaluation on phonetic convergence.

- *86th Annual Meeting of the Linguistic Society of America*, Portland, 1/2012.
- *New Ways of Analyzing Variation 40*, Washington, D.C., 10/2011.

Sonderegger, M. et al. (13 others). Coronal stop deletion on reality TV.

- *86th Annual Meeting of the Linguistic Society of America*, Portland, 1/2012.
- *New Ways of Analyzing Variation 40*, Washington, D.C., 10/2011.

Yu, A.C.L., Martinović, M., & Sonderegger, M. (2011) Effects of working memory capacity and “autistic traits” on phonotactic effects in speech perception. *Architectures and Mechanisms for Language Processing 2011*. Paris, 10/2011.

Bane, M., Graff, P., & Sonderegger, M.. A corpus study of socially-mediated language change in voice onset time. *24th Annual CUNY Conference on Human Sentence Processing*. Stanford, 3/2011.

Sonderegger, M., Paterson, N., Goldrick, M., & Keshet, J. (2011) A new tool for automatic VOT measurement. *Workshop on New Tools and Methods for Very-Large-Scale Phonetics Research*, Philadelphia, 1/2011.

Keshet, J. & Sonderegger, M. (2011) Automatic keyword spotting for continuous speech. *Workshop on New Tools and Methods for Very-Large-Scale Phonetics Research*, Philadelphia, 1/2011.

Bane, M., Graff, P., & Sonderegger, M. Phonetic convergence among reality television contestants. *85th Annual Meeting of the Linguistic Society of America*, Pittsburgh, 1/2011.

Carlson, M., Bane, M., & Sonderegger, M. Global properties of the phonological network in child-directed speech. *McWOP 16: The 16th Mid-Continental Workshop on Phonology*, Evanston, IL, 10/2010.

Bane, M., Graff, P., & Sonderegger, M. Longitudinal phonetic variation in a closed system. *46th Annual Meeting of the Chicago Linguistics Society*, 4/2010.

Sonderegger, M. Testing for frequency and structural effects in an English stress shift. *36th Annual Meeting of the Berkeley Linguistics Society*, 2/2010.

Sonderegger, M. & Niyogi, P. Combining data and mathematical models to study change: An application to an English stress shift. *84th Annual Meeting of the Linguistic Society of America*, Baltimore, 1/2010.

Sonderegger, M. Rhyme graphs, sound change, and perceptual similarity. *83rd Annual Meeting of the Linguistic Society of America*, San Francisco, 1/2009.

Sonderegger, M. & Yu, A.C.L. A rational account of perceptual compensation for coarticulation. *83rd Annual Meeting of the Linguistic Society of America*, San Francisco, 1/2009.

Niyogi, P. & Sonderegger, M. When does variation lead to change? A dynamical systems model of a stress shift in English.

- (Poster) *11th Conference on Laboratory Phonology*, Wellington, New Zealand, 7/2008.
- *Symposium on Phonologization*, Chicago, 4/2008.

Chi, X. & Sonderegger, M. Subglottal coupling and vowel space. (Poster) *147th meeting of the Acoustical Society of America*, New York, 5/2004.

DATA

Sonderegger, M., Stuart-Smith, J., Tanner, J., Willerton, V., Macdonald, R., Mielke, J. (2020) *SPADE – Speech Across Dialects of English*. Online resource, available at <https://doi.org/10.17605/OSF.IO/4JFRM>.

- 115+ publicly available datasets resulting from the SPADE project, with documentation.
- 12/2020 version: contains data for sibilants and vowel formants/durations, across 39 corpora.

SOFTWARE

McAuliffe, M., Coles, A., Goodale, M., and Sonderegger, M. (2018–2019). *Integrated Speech Corpus Analysis (ISCAN)* [Computer program]. Version 0.2. Available at <https://github.com/MontrealCorpusTools/iscan/>.

McAuliffe, M., Stengel-Eskin, E., Socolof, M., Coles, A., Mihuc, S., & Sonderegger, M. (2017–2019). *PolyglotDB: Language data store and linguistic query API* [Computer program]. Version 1.0 Available at <https://github.com/MontrealCorpusTools/PolyglotDB/>.

McAuliffe, M., Stengel-Eskin, E., Socolof, M., & Sonderegger, M. (2016). *Speech Corpus Tools: an application for easier analysis of large speech corpora* [Computer program]. Version 0.5. Available at <https://github.com/MontrealCorpusTools/speechcorpustools>.

McAuliffe, M., Socolof, M., Mihuc, S., Wagner, M., & Sonderegger, M. (2016–2019). *Montreal Forced Aligner* [Computer program]. Version 1.0.1. Available at <https://github.com/MontrealCorpusTools/Montreal-Forced-Aligner>.

Keshet, J., Sonderegger, M., and Knowles, T. (2014). *AutoVOT: A tool for automatic measurement of voice onset time using discriminative structured prediction* [Computer program]. Version 0.9. Available at <https://github.com/mlml/autovot/>.

TEACHING (AS INSTRUCTOR)

McGill University

Undergraduate

Introduction to Linguistics (LING 201) Winter 2017 (with M. Noonan), Fall 2021 (with J. Coon),
Fall 2022
Phonetics (LING 330) Winter 2013, 2014, 2018

Undergraduate/Graduate

Computational Linguistics (LING 550) Winter 2015, Fall 2016
Field Methods (LING 415/610) Winter 2016, 2017 (with J. Coon)
From Natural Language to Data Science (COMP/LING 345, 682) Winter 2024 (with S. Reddy)

Graduate

Selected Topics: Advanced Quantitative Methods (LING 683) Fall 2021

Experimental Linguistics: Methods (LING 620) Fall 2013 (with M. Wagner), 2014, 2015,
2016 (with F. Torreira), 2017 (with M. Wagner), 2023
Winter 2020, 2021, 2022
Phonetics & Phonology 4/Seminar in P&P (LING 635/735) Winter 2013, 2014, 2015, 2016, 2023
Phonology 3 (LING 631) Fall 2015 (with M. Wagner)

LSA Summer Institute

Computational Models of Sounds Change (with James Kirby) Summer 2013, Summer 2015

University of Chicago

Formal Methods and Statistics in Linguistics (with James Kirby) Spring 2009

ADVISING AND SUPERVISION

Academic advising

(All students are McGill Linguistics unless otherwise indicated)

PhD: Dissertations

Amanda Doucette, PhD thesis co-supervisor. *Compensation and causation in the lexicon*. In progress.

Irene Smith, PhD thesis supervisor. *The relationship between allophonic nasality and vowel quality in English*. In progress.

Wei Zhang, PhD thesis co-supervisor. *Phonetics and phonology in the imitation of the Mandarin flat-falling tonal contrast*. Defended 8/2024. progress.

Bing'er Jiang, PhD thesis co-supervisor. *Computational and behavioural approaches to understanding perception of speech variability*. Defended 8/2021.

James Tanner, PhD thesis co-supervisor. *Structured variability across dialects and speakers of English and Japanese*. Defended 7/2020.

Hye-Young Bang, PhD thesis co-supervisor. *The structure of multiple cues to phonetic categorization and its implications for sound change*. Defended 12/2017.

Oriana Kilbourn-Ceron, PhD thesis co-supervisor. *Speech production planning affects variation in external sandhi*. Defended 7/2017.

PhD: Evaluation papers

Massimo Lipari, PhD evaluation paper supervisor. TBA. In progress.

Gaurav Kamath, PhD evaluation paper co-supervisor. *Lexical semantic change across time and generations*. Defended 5/2024.

Jeanne Brown, PhD evaluation paper supervisor. *A sociophonetic study of creaky voice in Canadian English-French bilinguals*. Defended 5/2024.

Amanda Doucette, PhD evaluation paper committee member. *Cross-linguistic study of the relationship between phonotactic regularity and frequency*. Defended 5/2023.

Massimo Lipari, PhD evaluation paper supervisor. *The development of “rhoticized” vowels in Quebec French*. Defended 6/2023.

Irene Smith, PhD evaluation paper supervisor. *Cross-dialect distribution of PIN-PEN merger in English*. Defended 4/2023.

Amanda Doucette, PhD evaluation paper co-supervisor. *Universal tendencies towards vowel harmony and consonant disharmony*. Defended 4/2022.

Connie Ting, PhD evaluation paper co-supervisor. *Investigating universality of vowel and consonant intrinsic effects*. Defended 4/2022.

Jacob Hoover, PhD evaluation paper co-supervisor. *With better language models, processing time is superlinear in surprisal*. Defended 1/2022.

Esmail Moghiseh, PhD evaluation paper committee member. *The iambic-trochaic law in actual words*. Defended 5/2021.

Wei Zhang, PhD evaluation paper committee member. *The interaction between focus and phrasing in Mandarin*. Defended 4/2021.

James Tanner, PhD evaluation paper co-supervisor. *Phonological and phonetic mechanisms of Tokyo Japanese vowel devoicing*. Defended 4/2017.

Jeffrey Lamontagne, PhD evaluation paper co-supervisor. *The realisation of prominence in Laurentian French*. Defended 6/2016.

Hye-Young Bang, PhD evaluation paper supervisor. *The lexical and contextual path of tonogenesis: evidence from Seoul Korean*. Defended 1/2015.

Oriana Kilbourn-Ceron, PhD evaluation paper supervisor. *Categorical and variable allophony? The case of Japanese high vowel devoicing in spontaneous speech*. Defended 6/2014.

Guilherme Garcia, PhD evaluation paper co-supervisor. *Stress and gradient weight in Portuguese*. Defended 6/2014.

Brian Buccola, PhD evaluation paper supervisor. *Two proofs that classic Optimality Theory is expressively weaker than ordered rewrite rules*. Defended 1/2013.

MA

Michael Haaf (Computer Science). MSc paper supervisor. *Syllabify and Conquer: A report on preparing and analyzing speech-text corpora*. Submitted 6/2022.

Martha Schwarz, MA paper co-supervisor. *Realization and Representation of Nepali Laryngeal Contrasts: Voiced aspirates and laryngeal realism*. Defended 5/2017.

Betty Leung, MA paper co-supervisor. *Tone 4 and Tone 6 merger in heritage Cantonese speakers*. Completed 5/2016.

BA

Yingrui He, BA Honours thesis co-supervisor. *The Iambic-Trochaic Law without iambs or trochees: follow-up analyses*. Completed 4/2023.

Michael Goodale (CogSci), BA Honours project supervisor. *Probabilistically Reconstructing the Allophonic Rules of English Stop Allophones*. Completed 4/2019.

Arlie Coles (CogSci), BA Honours project supervisor. *Forced phonetic alignment using deep neural networks*. Completed 4/2018.

Hannah Cohen, BA Honors thesis co-supervisor. *Looking for /l/: A light in the dark*. Completed 9/2016.

Liam Bassford, BA Honour's thesis co-supervisor. *Multidimensional stylistic variability of diphthongization in Québec French: a corpus study*. Completed 4/2015.

Thesis committees

Laurestine Bradford, PhD thesis committee member. TBA. In progress.

Kuilin Li, PhD evaluation paper committee member. TBA. In progress.

Jackson Mundie, MA thesis committee member. TBA. In progress.

Alex Zhai, PhD thesis committee member. *The use of lexical context in perception for L1 and L2 speakers*. In progress.

Michaela Socolof, PhD oral defense committee member. *Information and predictability in sentence structure and processing*. Defended 7/2024.

Jacob Hoover, PhD thesis committee member. *Sampling-based processing*. Defended 7/2024.

Connie Ting, PhD thesis committee member. TBA. In progress.

Claire Henderson, MA thesis committee member. *Maintenance of Canadian English near the American border*. Defended 6/2023.

Loren Lugosch (Electrical and Computer Engineering, McGill), PhD oral defense committee member. *Deep Neural Networks for Voice Control*. Defended 5/2023.

Alex Zhai, PhD evaluation paper committee member. *Individual differences in perceptual compensation for coarticulation and reliance on lexical information when presented simultaneously and in different tasks*. Defended 3/2023.

Roger Lo (Linguistics, U. British Columbia), PhD oral defense committee member. *Post-Stop Fundamental Frequency Perturbation in Production and Perception of Mandarin Stop Voicing*. Defended 5/2022.

Bing'er Jiang, oral defense committee member. See above. Defended 8/2021.

Donghyun Kim, PhD thesis committee member and oral defense committee member. *Individual differences in plasticity in speech perception*. Defended 8/2018.

Amélie Bernard (Psychology, McGill), PhD thesis committee member and oral defense committee member. *Learning statistical regularities in speech sounds: syllable position vs. co-occurrence information*. Defended 7/2018.

Guilherme Garcia, PhD thesis committee member and oral defense committee member. *Weight effects on stress: lexicon and grammar*. Defended 8/2017.

Bing'er Jiang, MA paper committee member. *The perception of tonal register contrast and individual variability in Chinese Wu dialects*. Defended 5/2017.

Donghyun Kim, PhD evaluation paper committee member. *Individual differences in the relation between perception and production and mechanisms of phonetic imitation*. Defended 5/2016.

Guilherme Garcia, PhD evaluation paper committee member. *Weight effects on stress in second language acquisition*. Defended 5/2015.

Thesis examination

Michaela Socolof, PhD defense internal examiner. *Partial compositionality*. Defended 7/2024.

Loren Lugosch (Electrical and Computer Engineering, McGill), PhD defense internal examiner. *Deep neural networks for voice control*. Defended 5/2023.

Roger Lo (UBC), PhD defense external examiner. See above. Defended 5/2022.

Donghyun Kim, PhD defense internal examiner. *Individual differences in plasticity in speech perception*. Defended 8/2018.

Amélie Bernard (Psychology, McGill), PhD defense internal examiner. *Learning statistical regularities in speech sounds: syllable position vs. co-occurrence information*. Defended 7/2018.

Peter Milne (Linguistics, U. Ottawa), PhD defense external examiner. *The Variable Pronunciations of Word-final Consonant Clusters in a Force Aligned Corpus of Spoken French*. Defended 4/2014.

Chen Qu, PhD defense internal examiner. *Representation and acquisition of the tonal system of Mandarin Chinese*. Defended 5/2013.

Postdoctoral fellows

Michael McAuliffe (co-supervised with Michael Wagner). 2015–2019.

Research supervision

Xiaoyi Li (BSc, Computer Science) – RA on speech technology and software maintenance. Summer 2024–.

Laurie Dumont (BA) – RA on corpus development. Winter 2024–.

Luca Mitran (BA, CogSci) – RA on speech technology and corpus phonetics. Summer 2023.

Talia Gottfred (BA) – RA on corpus development. Summer 2023.

Yingrui He (BHon) – Independent study on Bayesian statistical modeling. Fall 2022.

Yingrui He (BHon) – RA on speech technology and corpus phonetics. Summer 2022.

Michael Haaf (MSc, Computer Science) – RA on speech technology and corpus phonetics. Winter–Summer 2022.

Michelle Yang (BA) – independent study on computational historical semantics. Fall 2021.

Michaela Socolof (PhD) – RA on quantitative methods for language research. Summer 2021–Fall 2022.

Claire Honda (PhD, SCSD) – RA on quantitative methods for language research. Summer 2022.

Vanna Willerton (MA) – RA on Speech Across Dialects of English project. Summer 2018–Summer 2020.

Michael Goodale (BHon, CogSci) – RA on software development, corpus phonology/phonetics. Summer 2018, Summer 2019.

Arlie Coles (BHon, CogSci) – RA on software development, corpus phonology/phonetics. Summer 2017–Summer 2018.

David Fleischer (MA, Statistics) – RA on quantitative methods for language research. Summer 2017.

Sarah Mihuc (post-bac) – RA on software development, machine learning, phonetics. May–October 2017.

Elias Stengel-Eskin (BHon, CogSci) – Independent research project and RA software development, corpus phonetics/phonology. Summer 2016–Fall 2017.

Michaela Socolof (BHon) – RA on software development, corpus phonetics/phonology. Summer 2016.

James Tanner (as MA alumnus) – Collaborative research on speech variability, leading to article submission. Spring 2015–Summer 2016.

Jeffrey Lamontagne (PhD) – RA on Voicing contrast grants, corpus acquisition. 2015–2017.

Henrison Hsieh (PhD) – RA on software development for corpus research. Summer 2015.

Hye-Young Bang (PhD) – RA on Voicing contrast grants, corpus acquisition. Winter 2015.

Hannah Cohen (BHon) – RA on corpus phonetics/phonology, software development. Summer 2014–Spring 2015.

Liam Bassford (BHon) – RA on corpus phonetics/phonology. Winter 2014–Winter 2015.

Marion Coumel (BA) – RA on corpus phonetics/phonology. Winter 2014.

Louisa Bielig (BA) – Directed reading on speech production (Co-supervised with M. Clayards), RA on phonological dynamics. Summer–Fall 2013.

Thea Knowles (post-bac) – RA on automatic phonetic measurement, corpus phonetics and phonology; lab manager. Summer 2013–Fall 2014.

Misha Schwartz (BA) – RA on corpus phonetics/phonology, software development; independent study on speech technology. Summer 2013–Fall 2014.

Marjorie Labelle (BA) – RA on corpus phonetics/phonology. Winter 2013–Spring 2015.

Victoria Ly (BA) – independent study on corpus phonetics. Winter 2013. (Co-supervised with Meghan Clayards)

Reviewing

- Positions held:
 - Associate Editor, *Language*, 2024–present
 - Advisory board, *Phonological Data and Analysis*, 2017–present
- Grant proposals:
 - *Canada Foundation for Innovation*: 2024 (1)
 - *National Science and Engineering Research Council* (Canada): 2018 (1), 2021 (1)
 - *National Science Foundation* (US): 2016 (1), 2020 (1)
 - *Mitacs* (Canada): 2014 (1)
- Book proposals:
 - *MIT Press*: 2021 (1)
- Journal articles:
 - *Language Development Research*: 2023 (2)
 - *Open Mind*: 2022 (1)
 - *Frontiers in AI*: 2021 (1)
 - *Laboratory Phonology*: 2019 (1), 2021 (2), 2023 (1)
 - *Language*: 2016 (1), 2022 (1)
 - *Journal of Phonetics*: 2016 (1)
 - *Behavioral Research Methods*: 2015 (1), 2022 (1)
 - *Cognition*: 2015 (1)
 - *PLOS ONE*: 2015 (1)
 - *Phonology*: 2014 (1)
 - *Cognitive Science*: 2010 (1), 2013 (1)
 - *Developmental Science*: 2012 (1)
 - *Journal of the Acoustical Society of America*: 2012 (1), 2013 (1), 2014 (1), 2017 (2), 2018 (1), 2020 (1), 2022 (1)
 - *Stochastic Models*: 2012 (1)
 - *Lingua*: 2010 (1), 2014 (2)
 - *Speech Communication*: 2010 (1)
- Book chapters:
 - *MIT Press*: 2019 (1)
 - *University of Chicago Press*: 2016 (1)
 - *Cambridge University Press*: 2012 (1)
 - *Oxford University Press*: 2010 (1)
- Conference papers (= Program Committee member):
 - *Association of Computational Linguistics*: 2024
 - *International Congress of Phonetic Sciences*: 2023
 - *SIGMORPHON*: 2022, 2023, 2024
 - *The 27th International Conference on Computational Linguistics*: 2018
 - *North American Association of Computational Linguistics-Human Language Technologies*: 2012
 - *Cognitive Science Society*: 2011, 2012
- Conference abstracts:
 - *Annual Meeting on Phonology*: 2023
 - *Canadian Linguistics Association*: 2020, 2022, 2023, 2024
 - *Society for Computation in Linguistics*: 2017
 - *LSA Annual Meeting*: 2016, 2017
 - *Laboratory Phonology*: 2016, 2020, 2022, 2024

- *New Ways of Analyzing Variation*: 2016
- *Sociolinguistic Variation and Language Processing*: 2015
- *North Eastern Linguistics Society*: 2015
- *Generative Linguistics in the Old World*: 2015
- *Tonal Aspect of Language*: 2014
- *West Coast Conference on Formal Linguistics*: 2013, 2015, 2017
- *Formal Approaches to Mayan Linguistics*: 2012
- *Chicago Linguistic Society*: 2011

Conference and workshop organization

- Co-organizer of CorpusPhon, Satellite workshop of LabPhon 19, Seoul, June 2024.
- Co-organizer of Scaling up phonetic analysis for the 21st century - Tools, opportunities, and challenges, Special session of ICPhS 2019, Melbourne, August 2019.
- Co-organizer of BigPhon (Tools for Big Data in Laboratory Phonology), Satellite workshop of LabPhon 15, Ithaca (New York), July 2016.
- Lead organizer of MOLT 2014 (Montreal-Ottawa-Laval-Toronto Phonology Workshop), McGill University, March 2014.

Committee Membership

- Member of evaluation committee:
 - Institut de valorisation des données (IVADO), Doctoral excellence scholarships, 2019.
 - Fonds de recherche du Québec - Société et culture (FRQSC), Programme Soutien à la recherche pour la relève professorale, 2017–18, 2022-23.
- Jury member for PhD comprehensive exam for Anderson Avila (Institut National de la Recherche Scientifique), 8/2016.
- Secondary field supervisor for Examen général de synthèse for Hugues Lacroix (Université de Montréal), 2/2018.

Service to McGill Linguistics Department

- Graduate Admissions and Funding Director: 2017–2018, 2020–present
- Member of search committee for Assistant Professor in phonology (cancelled): 2023
- Chair of search committee for Faculty Lecturer in phonetics: 2023
- Subcommittee on courseload: 2023
- Department Space Committee: 2022
- Department Tenure/Promotion Committee: 2021 (1 case), 2022 (4 cases)
- Member of search committee for Assistant Professor in computational linguistics: 2018–2019
- Subcommittee on introductory linguistics courses: 2017
- Subcommittee on departmental retreat: 2016–17
- Ad-hoc member of search committee for Assistant Professor in syntax/semantics: 2015–2016
- Chair of search committee for Assistant Professor in phonetics or related experimental areas: 2014–2015
- Member of search committee for phonetics/phonology faculty lecturer: 2014
- Colloquium series co-organizer: 2013–2017
- Subcommittee on merit evaluation: 2014
- Subcommittees on departmental promotion: 2013, 2014
- Co-editor of departmental blog *McLing*: 2012–2019
- Subcommittee on student awards: 2013
- Admissions committee: 2012–2017

Service to McGill University

- Reader at Convocation: 6/2023, 6/2024
 - Member of Cognitive Science program steering committee, 2022–present
 - Pro-Dean for Benoit Corsini (Mathematics and Statistics) PhD defence, 6/2022
 - Pro-Dean for Eric Crawford (Computer Science) PhD defence, 6/2021
 - Member of Vanier SSHRC/VCGS Fellowship Evaluation Committee: 2017
 - Pro-Dean for Francesco Tordini (Electrical and Computer Engineering) PhD defence, 6/2017.
 - Pro-Dean for Alejandro Sepulveda (Integrated Studies in Education) PhD defence, 8/2016.
 - Pro-Dean for Andrew Abela (Psychology) PhD defence, 6/2015.
 - Pro-Dean for Nathalie Magnus (Experimental Medicine) PhD defence, 5/2014.
 - Member of Research Ethics Board II, 2013–2014
 - Speaker at SLUM’s “Future Week” career panel, 2013
 - Member of SSHRC doctoral scholarship pre-selection committee: 2012, 2013
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LANGUAGES

- Native: English
- Fluent: French
- Intermediate: German, Spanish
- Elementary: Latin, Russian
- Coursework: Japanese, Old English
- Field Methods: Kabyle (Berber), Bobangi/Lingala (Bantu)