

# Morgan Sonderegger

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## EMPLOYMENT

### McGill University

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

## 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

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

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## GRANTS AND AWARDS

### External grants and awards, as Primary Applicant

- **SSHRC Insight Grant**, 2017–2022: “Uncovering the structure and sources of speech variability through large-scale studies” #435-2017-0925 — \$196,720
- **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

- **GAAAN Fellowship**, U.S. Department of Education, 2009–2010
- **International Speech Communication Association Travel Grant**, 2010
- **Association for Computational Linguistics Travel Grant**, 2010
- **James McCawley Fellowship**, Linguistic Society of America, Summer 2009
- **Phi Beta Kappa** (USA National Academic Honor Society), inducted 2005

#### External grants and awards, as non-Primary Applicant

- *Collaborator*: **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
- *Collaborator*: **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
- *Collaborator* (UK): **Leverhulme Trust**, 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 — \$2,000 each
- **Paper Presentation Grant**, 2014, 2017 — \$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
- **U. Chicago Bryan and Catherine Daniels Endowed Fellowship**, 2012 — \$30,000
- **U. Chicago Doolittle-Harrison Travel Grant**, 2010 — \$400

## PUBLICATIONS

### Papers in peer-reviewed journals

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*. <http://doi:10.1007/s11049-017-9368-x>. (43 pages)

Stuart-Smith, J., Sonderegger, M., Macdonald, R., & Rathke, 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. (in press). Model selection and phonological argumentation. To appear in D. Brentari & J.S. Lee (Eds.), *Shaping Phonology: A festschrift for John Goldsmith*. Chicago: University of Chicago Press. (19 pages)

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**

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. & Kirby, J. (submitted). Mixed-effects design analysis for experimental phonetics. Submitted manuscript.

Knowles, T., Clayards, M., & Sonderegger, M. (submitted). Examining the viability of automatic acoustic analysis of child speech. Submitted manuscript, 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

Keynote talk (title TBA). *Accents 2018*. University of Łódź, 2018.

Colloquium talk (title TBA). Northwestern University, 6/2018.

Colloquium talk (title TBA). 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 Phontique et Phonologie*. Laboratoire de Phonologie et Phonetique, 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

Schwarz, M., Sonderegger, M., & Goad, H. Representing a four-way contrast: Nepali, voiced aspirates and laryngeal realism. To be presented at *Annual Meeting on Phonology 2017*, New York, 9/2017.

Lamontagne, J., Goad, H. & Sonderegger, M. Variability in French prominence: Evidence for weight sensitivity. (Poster) To be presented at *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., & Rathcke, 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.

## SOFTWARE

McAuliffe, M., Stengel-Eskin, E., Socolof, M., Coles, A., Mihuc, S., & Sonderegger, M. (2017). *PolyglotDB: Language data store and linguistic query API* [Computer program]. 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). *Montreal Forced Aligner* [Computer program]. Version 0.8.1. 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/>.

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TEACHING (AS  
INSTRUCTOR)

### McGill University

#### *Undergraduate*

Introduction to Linguistics (LING 201)

Winter 2017 (with M. Noonan)

Phonetics (LING 330)

Winter 2013, 2014

#### *Undergraduate/Graduate*

Computational Linguistics (LING 550)

Winter 2015, Fall 2016

Field Methods (LING 415/610)

Winter 2016, 2017 (with J. Coon)

#### *Graduate*

Experimental Linguistics: Methods (LING 620)

Fall 2013 (with M. Wagner), 2014, 2015,  
2016 (with F. Torreira), 2017 (with M. Wagner)

Phonology 4/Seminar in Phonology (LING 635/735)

Winter 2013, 2014, 2015, 2016

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

TEACHING (AS  
TA)

### University of Chicago

*Linguistics*: Phonology II

*Computer Science*: Honors Intro. to Comp. Sci. II (2x), Foundations of Computing (2x), Introduction to Formal Languages, Computational Models of Speech, Artificial Intelligence

ADVISING AND  
SUPERVISION

### Academic advising

(All students are McGill Linguistics unless otherwise indicated)

#### PhD: Dissertations

Hye-Young Bang, PhD thesis co-supervisor. *The structure of multiple cues to phonetic categorization and its implications for sound change*. In progress. (anticipated defence: 12/2017)

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

#### PhD: Evaluation papers

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

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

Arlie Coles (CogSci), BA Honours project supervisor. In progress.

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

Donghyun Kim, PhD thesis committee member. In progress.

Amélie Bernard (Psychology, McGill), PhD thesis committee member. In progress.

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

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–present.

### Research supervision

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

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

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–present.

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. Winter 2015–present.

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)

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ACADEMIC  
SERVICE

## Reviewing

- Grant proposals:
  - *National Science Foundation*: 2016 (1)
  - *Mitacs*: 2014 (1)
- Journal articles:
  - *Language*: 2016 (1)
  - *Journal of Phonetics*: 2016 (1)
  - *Behavioral Research Methods*: 2015 (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)
  - *Stochastic Models*: 2012 (1)
  - *Lingua*: 2010 (1), 2014 (2)
  - *Speech Communication*: 2010 (1)
- Book chapters:
  - *University of Chicago Press*: 2016 (1)
  - *Cambridge University Press*: 2012 (1)
  - *Oxford University Press*: 2010 (1)
- Conference papers:
  - *North American Association of Computational Linguistics-Human Language Technologies*: 2012
  - *Cognitive Science Society*: 2011, 2012
- Conference abstracts:
  - *Society for Computation in Linguistics*: 2017
  - *LSA Annual Meeting*: 2016, 2017
  - *Laboratory Phonology*: 2016

- *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 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 for Fonds de recherche du Québec - Société et culture (FRQSC), 2017–18.
- External examiner for PhD Defense for Peter Milne (Linguistics, U. Ottawa). *The Variable Pronunciations of Word-final Consonant Clusters in a Force Aligned Corpus of Spoken French*, 4/2014.
- Jury member for PhD comprehensive exam for Anderson Avila (Institut National de la Recherche Scientifique), 8/2016.

### Service to McGill Linguistics Department

- Graduate Admissions and Funding Director: 2017–present
- 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–present
- Subcommittee on student awards: 2013
- Admissions committee: 2012–2017

### Service to McGill University

- 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

LANGUAGES

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

TECHNICAL SKILLS Python, R, C, Perl, Scheme, Latex, Matlab, Praat.