

Rory Turnbull

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Academic Appointments

- 2017– **Assistant Professor**, *Department of Linguistics*, University of Hawai'i at Mānoa, Honolulu, HI.
- 2015–2017 **Post-doctoral researcher**, *Laboratoire de Sciences Cognitives et Psycholinguistique*, Département d'Études Cognitives, École Normale Supérieure, Paris, France.
- 11/2015 **Visiting academic**, *Department of Linguistics*, University of Canterbury, Christchurch, New Zealand.

Education

- PhD **Ohio State University**, *Linguistics*, 2015.
- MA **Ohio State University**, *Linguistics*, 2013.
- MA (Hons) **University of Edinburgh**, *English Language & Linguistics*, 2009.

Publications

Journal Articles

- in press Holliday, J.J., **Turnbull, R.**, & Eychenne, J., "K-SPAN: A lexical database of Korean surface phonetic forms and phonological neighborhood density statistics", *Behavior Research Methods*.
- in press **Turnbull, R.**, "The phonetics and phonology of lexical prosody in San Jerónimo Acazulco Otomi", *Journal of the International Phonetic Association*.
- 2017 **Turnbull, R.**, Royer, A.J., Ito, K., & Speer, S.R., "Prominence perception is dependent on phonology, semantics, and awareness of discourse", *Language, Cognition and Neuroscience*, 32(8): 1017–1033.
- 2017 Ito, K., **Turnbull, R.**, & Speer, S.R., "Allophonic tunes of contrast: Lab and spontaneous speech lead to equivalent fixation responses in museum visitors", *Laboratory Phonology*, 8(1): 6, 1–29.
- 2017 **Turnbull, R.**, "The role of predictability in intonational variability", *Language & Speech*, 60(1): 123–153.
- 2016 Wiener, S., & **Turnbull, R.**, "Constraints of tones, vowels and consonants on lexical selection in Mandarin Chinese", *Language & Speech*, 59(1): 59–82.
- 2015 **Turnbull, R.**, Burdin, R.S., Clopper, C.G., & Tonhauser, J., "Contextual predictability and the prosodic realisation of focus: A cross-linguistic comparison", *Language, Cognition and Neuroscience*, 30(9):1061–1076.

- 2015 Burdin, R.S., Phillips-Bourass, S., **Turnbull, R.**, Yasavul, M., Clopper, C.G., & Tonhauser, J., "Variation in the prosody of focus in head- and edge-marking languages", *Lingua*, 165(B): 254–276.
- 2013 Ladd, D.R., **Turnbull, R.**, Browne, C., Caldwell-Harris, C., Ganushchak, L., Swoboda, K., Woodfield, V., & Dediu, D., "Patterns of individual differences in the perception of missing-fundamental tones", *Journal of Experimental Psychology: Human Perception and Performance*, 39(5): 1386–1397.

Book Chapters & Conference Proceedings

- in press Clopper, CG & **Turnbull, R.**, "Exploring variation in phonetic reduction: Linguistic, social, and cognitive factors", in Cangemi, F., Clayards, M., Niebuhr, O., Schuppler, B., & Zellers, M. (eds.), *Rethinking Reduction: Interdisciplinary perspectives on conditions, mechanisms, and domains for phonetic variation*, Berlin: De Gruyter.
- 2017 **Turnbull, R.** & Peperkamp, S., "What governs a language's lexicon? Determining the organizing principles of phonological neighbourhood networks", in Cherifi, H., Gaito, G., Quattrociochi, W., & Sala, A. (eds.), *Complex Networks and their Applications V*, pp. 83–94. Berlin: Springer.
- 2016 Pharao Hansen, M., Hernández-Green, N., **Turnbull, R.**, & Boeg Thomsen, D., "Life histories, language attitudes and linguistic variation: Navigating the micro-politics of language revitalization in an Otomí community in Mexico", in Pérez Báez, G., Rogers, C., & Rosés Labrada, J.E. (eds.), *Language Documentation and Revitalization in Latin American Contexts*, pp. 217–246. Berlin: De Gruyter.
- 2015 Burdin, R.S., **Turnbull, R.**, & Clopper, C.G., "Interactions among lexical and discourse characteristics in vowel production", *Proceedings of Meetings on Acoustics*, 22, 060005.
- 2015 **Turnbull, R.**, "Patterns of individual differences in reduction: Implications for listener-oriented theories", *Proceedings of the 18th International Congress of Phonetic Sciences*.
- 2015 Holliday, J.J., & **Turnbull, R.**, "Effects of phonological neighborhood density on word production in Korean", *Proceedings of the 18th International Congress of Phonetic Sciences*.
- 2014 **Turnbull, R.**, Royer, A.J., Ito, K., & Speer, S.R., "Prominence perception in and out of context", *Proceedings of the 7th International Conference on Speech Prosody*, p1164–1168.
- 2013 **Turnbull, R.**, & Clopper, C.G., "Effects of semantic predictability and dialect variation on vowel production in clear and plain lab speech", *Proceedings of Meetings on Acoustics*, 19, 060116.
- 2012 Littauer, R., **Turnbull, R.**, & Palmer, A., "Visualising typological relationships: plotting WALS with heat maps", *Proceedings of the European Association of Computational Linguistics 2012 Workshop on the Visualization of Linguistic Patterns*, p30–34.

Presentations

Invited Presentations

- 2017 **Turnbull, R.**, *Complex network modelling of the phonological lexicon*, presented at L'Atelier de Phonologie, Structures Formelles du Langage, University of Paris VIII, Paris, France.
- 2016 **Turnbull, R.**, *The phonological lexicon as a complex network*, presented at Cognitive Linguistics Working Group, University of Oregon, Eugene, OR.
- Turnbull, R.**, *The phonological structure of the lexicon: Insights from phonological priming and simulations*, presented at Psychology of Language research group, Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands.
- Turnbull, R.**, *A cross-linguistic perspective on the relationship between context and the prosodic realization of focus*, presented at LINGUAE research group, Institut Jean Nicod, Paris, France.
- 2015 **Turnbull, R.**, *Explaining probabilistic phonetic reduction: Speech production, theory of mind, and conceptual unity*, presented at the New Zealand Institute for Language, Brain & Behaviour Seminar Series, Christchurch, New Zealand.
- 2014 **Turnbull, R.**, *Probabilistic phonetic reduction: a psychophonetic approach*, presented at the Indiana University Phonetics Literature Enjoyment Group Meeting, Bloomington, IN.
- Turnbull, R.**, *Individual differences in phonetic reduction and audience design*, presented at the University of Edinburgh P-Workshop, Edinburgh, UK.
- 2012 **Turnbull, R.**, *The role of redundancy in phonetic variation: English nasal place assimilation*, presented at the MIT Phonology Circle, Cambridge, MA.

Conference Presentations

- 2017 **Turnbull, R.** & Holliday, J. J., *Korean vowel articulation is not sensitive to phonological neighborhood density*, poster to be presented at the 25th Japanese/Korean Linguistics Conference, Honolulu, HI.
- Howcroft, D. M., Johnson, C. A., & **Turnbull, R.**, *German morphosyntactic change is consistent with an optimal encoding hypothesis*, paper presented at the 39th Annual Conference of the German Linguistic Society, Saarbücken, Germany.
- Turnbull, R.** & Peperkamp, S., *Instability in phonological representation leads to instability in neighborhood density*, paper presented at the 91st LSA Annual Meeting, Austin, TX.
- 2015 **Turnbull, R.**, *Phonetic reduction in production and perception: Insights from variation in theory of mind*, poster presented at the Workshop on Individual differences in language processing across the adult life span, Nijmegen, the Netherlands.
- Holliday, J.J., & **Turnbull, R.**, *Do effects of phonological neighborhood density on word production obtain in Korean?*, paper presented at the 2015 International Conference on Speech Sciences, Seoul, Korea.
- Ito, K., **Turnbull, R.**, & Speer, S.R., *Allophonic tunes of contrast: lab and spontaneous speech lead to equivalent fixation responses*, paper presented at Experimental and Theoretical Advances in Prosody 3, Urbana-Champaign, IL.

Burdin, R.S., Howcroft, D.M., Johnson, C.A., & **Turnbull, R.**, *“All models are wrong, but some are useful”: A history of mathematical modeling in historical linguistics*, paper presented at the Annual Meeting of the North American Association for the History of the Language Sciences, Portland, OR.

Turnbull, R., *Unreduced speech facilitates retrieval at multiple levels of processing*, poster presented at the 89th LSA Annual Meeting, Portland, OR.

- 2014 **Turnbull, R.**, *Individual differences in the lexical processing of phonetically reduced speech*, poster presented at the 168th Meeting of the Acoustical Society of America, Indianapolis, IN.

Wiener, S., & **Turnbull, R.**, *Dialectal differences and the Mandarin lexicon: a psycholinguistic approach*, poster presented at the Buckeye East Asian Linguistics Forum, Columbus, OH.

Turnbull, R., *Individual differences in the effects of acoustics and sentence context on acceptability judgements*, poster presented at the Center for Cognitive and Brain Sciences Fall Member Retreat, Mohican State Park, OH.

Turnbull, R., *Effects of autistic traits, general intelligence, speech style, and semantic predictability on phonetic reduction*, paper presented at Mid-Phon 19, Madison, WI.

Holliday, J.J., & **Turnbull, R.**, *An implementation of Korean grapheme-to-phoneme conversion in R*, poster presented at Mid-Phon 19, Madison, WI.

Turnbull, R., *Against reductionist accounts of reduction: Converging evidence*, poster presented at the 22nd Manchester Phonology Meeting, Manchester, UK.

Burdin, R.S., **Turnbull, R.**, & Clopper, C.G., *Variability in vowel production: Exploring interactions among frequency, neighborhood density, predictability, and mention*, poster presented at the 167th Meeting of the Acoustical Society of America, Providence, RI.

Turnbull, R., *Unpredictable and unintelligible: Individual differences in predictability-based reduction affect speech intelligibility*, poster presented at the 167th Meeting of the Acoustical Society of America, Providence, RI.

Wiener, S., & **Turnbull, R.**, *The representation and processing of Mandarin tonotactic gaps*, paper presented at the 26th North American Conference on Chinese Linguistics and the 22nd Conference of the International Association of Chinese Linguistics, College Park, MD.

Turnbull, R., *Effects of individual variation in theory of mind skills on probabilistic phonetic reduction and second mention reduction*, poster presented at 88th LSA Annual Meeting, Minneapolis, MN.

Wiener, S., & **Turnbull, R.**, *Constraints of tones, vowels and consonants on lexical selection in Mandarin Chinese*, paper presented at 88th LSA Annual Meeting, Minneapolis, MN.

Turnbull, R., Burdin, R.S., Howcroft, D.M., & Johnson, CA, *Information theoretic historical morphology: a case study of High German adjectives*, poster presented at 88th LSA Annual Meeting, Minneapolis, MN.

- 2013 **Turnbull, R.**, *Phonetic reduction and theory of mind*, poster presented at the Center for Cognitive and Brain Sciences Member Fall Retreat, Deer Creek State Park, OH.

Johnson, C.A., **Turnbull, R.**, Burdin, R.S., & Howcroft, D.M., *A methodology for quantifying intuitionistic claims about morphological change*, paper presented at the 21st International Conference on Historical Linguistics, Oslo, Norway.

Howcroft, D.M., Johnson, C.A., **Turnbull, R.**, Burdin, R.S., & Tsui, T.-H., *The development of adjective morphosyntax in High German: Using information theory to quantify intuitive claims about language change*, paper presented at the Nineteenth Germanic Linguistics Annual Conference, Buffalo, NY.

Turnbull, R., *Effects of autistic traits on differences in temporal reduction and perceptual compensation*, paper presented at Mid-Phon 18, Ann Arbor, MI.

Burdin, R.S., Howcroft, D.M., Johnson, C.A., Tsui, T.-H., & **Turnbull, R.**, *What information theory can contribute to our understanding of paradigmatic change: The emergence of the mixed adjective declension in New High German*, paper presented at the 10th Annual Martin Luther King Day Linguistics Symposium: Indo-European Linguistics, Columbus, OH.

Turnbull, R., Marty, P., & Graff, P., *Complementary covariation in acoustic cues to place of articulation: More evidence for efficient language production*, paper presented at 87th LSA Annual Meeting, Boston, MA.

Wiener, S., & **Turnbull, R.**, *Mandarin word recognition: tone sandhi, accidental gaps and the lexicon*, poster presented at 87th LSA Annual Meeting, Boston, MA.

2012 Wiener, S., & **Turnbull, R.**, *Geographic and phonological effects on Mandarin word judgments*, poster presented at Buckeye Language Network Symposium, Columbus, OH.

Wiener, S., & **Turnbull, R.**, *Detailed syllable frequency information in Mandarin: Evidence from lexical decision*, poster presented at East Asian Psycholinguistics Colloquium, Columbus, OH.

Boeg Thomsen, D., Pharao Hansen, M., & **Turnbull, R.**, *Where the knife and the butter both walk together with each other: A Meso-American challenge for the figure-ground-asymmetry universal?*, paper presented at Symposium on the Language of Space in Latin American Indigenous Languages at the 54th International Conference of Americanists, Vienna, Austria.

Turnbull, R., *The relationship between phonetic prominence and linguistic predictability*, poster presented at The Ohio State University Center for Cognitive Science annual COGFEST, Columbus, OH.

2011 **Turnbull, R.**, Morley, R., & Hume, E., *Empirical assessment of an information-theoretic approach to nasal place assimilation*, paper presented at Mid-Phon 17, Champaign-Urbana, IL.

Hume, E., & **Turnbull, R.**, *Redundancy in sound systems*, paper presented at Workshop on Information-Theoretic Linguistics at 2011 Linguistic Institute, Boulder, CO.

Turnbull, R., *Towards an understanding of Acazolco Otomi phonology: phonetic evidence*, paper presented at The Ohio State University Congress on Hispanic and Lusophone Linguistics (OSU CHiLL), Columbus, OH.

Pharao Hansen, M., **Turnbull, R.**, & Boeg Thomsen, D., *From academic salvage linguistics to community-based documentation in only three weeks: Report from a collective and interdisciplinary fieldwork on Acazulco Otomí*, paper presented at 2nd International Conference on Language Documentation and Conservation, Honolulu, HI.

Turnbull, R., Pharao Hansen, M., & Boeg Thomsen, D., *How a moribund dialect can contribute to the bigger picture: Insights from Acazulco Otomí*, paper presented at CUNY Conference on the Phonology of Endangered Languages, New York, NY.

- 2010 **Turnbull, R.**, & Aloschycheva, Y., *Word frequency and second mention effects on phonetic reduction in Russian*, paper presented at 5th Annual Slavic Linguistic Society Conference, Chicago, IL.

Teaching Experience

Ohio State University

- Ling 2051 **Analyzing the Sounds of Language**, Winter 2012, Autumn 2013.
(286) Instructor of Record
- Ling 4300 **Phonology**, Spring 2013, Autumn 2013.
Guest lecturer
- Ling 4100 **Phonetics**, Autumn 2012, Autumn 2013, Autumn 2014.
Guest lecturer
- Ling 201 **Introduction to Language in the Humanities**, Autumn 2010, Winter 2011.
Instructor of Record

Professional Activities

Conference and Workshop Organizing

- 2015 **Ohio State Linguistics PhD Program 50th Anniversary Celebration**, *Organizing committee member*, Columbus, OH.
- 2014 **27th Annual CUNY Conference on Human Sentence Processing**, *Head of operations and organizing committee member*, Columbus, OH.
- 2012 **Workshop on Prosodic Annotation**, *Co-organizer*, Columbus, OH.
- 2011 **Information-Theoretic Approaches to Linguistics**, *Co-organizer*, Workshop at LSA Summer Institute, Boulder, CO.

Reviewing

- Journals
- JASA Express Letters
 - Laboratory Phonology
 - Speech Communication
- Conferences
- Annual Meeting of the Linguistics Association of Great Britain (2017)
 - CUNY Conference on Human Sentence Processing (2013, 2014, 2015, 2016)
 - International Conference on the Evolution of Language (2013, 2015)
 - Linguistic Society of America Annual Meeting (2016)

Grants ○ National Science Foundation (USA)

Departmental Service

- 2016–2017 **DEC Lunch Seminar Series**, *Co-Organiser*, Département d'Études Cognitives.
- 2014–2015 **Phonology Faculty Search Committee**, *Student Representative*, OSU Linguistics Department.
- 2012–2015 **Travel Committee**, *Member*, OSU Linguistics Department.
- 2012–2013 **Phonology Faculty Search Committee**, *Student Representative*, OSU Linguistics Department.
- 2012–2013 **Social Chair**, *Student Linguistic Association*, OSU.
- 2011–2012 **President**, *Student Linguistic Association*, OSU.
- 2009–2011 **Laboratory and Computing Committee (LCC)**, *Member*, OSU Linguistics Department.
- 2009–2011 **Summer Linguistic Institute for Youth Scholars (SLIYS)**, *Committee Member*, OSU Linguistics Department.

Awards and Honors

- 2015 **International Phonetic Association**, *IPA Student Award*.
- 2015 **Ohio State University**, *Linguistics Undergraduate Teaching Award*.
- 2014 **Acoustical Society of America**, *Raymond H. Stetson Scholarship in Phonetics and Speech Production*, Honorable mention.
- 2014 **Acoustical Society of America**, *Best Student Paper Award in Speech Communication*, 2nd place.
- 2014 **Ohio State University**, *Presidential Fellowship*.
- 2014 **Acoustical Society of America**, *Student Transportation Subsidy*.
- 2014 **Ohio State University**, *Micheal G. Riley International Travel Award*.
- 2009 **Ohio State University**, *University Fellowship*.