

ROBERT D. STAUBS

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Research Interests

phonological learning, typological tendencies and language change, computational phonology, stress

Education

2009–2014	Doctor of Philosophy Linguistics University of Massachusetts Amherst, Amherst, Massachusetts <i>Computational modeling of learning biases in stress typology</i>
2011	Linguistic Society of America Summer Institute University of Colorado Boulder, Boulder, Colorado
2005–2009	Bachelor of Science <i>summa cum laude</i> Computer Science and Linguistics The College of William and Mary, Williamsburg, Virginia
2007	Linguistic Society of America Summer Institute Stanford University, Stanford, California

Academic Positions Held

2014–2015	Lecturer , Linguistics University of Massachusetts Amherst
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2014–2015	Lecturer , Linguistics University of Massachusetts Amherst
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Publications

In prep.	Staubs, Robert. Formal learning biases in the frequencies of stress systems. Under revision for resubmission to <i>Phonology</i> .
To appear	Staubs, Robert. Computational modeling of nonfinality effects on stress typology. In <i>Proceedings of the 33rd West Coast Conference on Formal Linguistics (WCCFL 33)</i> .

- To appear/2016 Staubs, Robert. Serial restrictions on feature/stress interactions. To appear in John J. McCarthy & Joe Pater (eds.), *Harmonic Grammar and Harmonic Serialism*. London: Equinox Press.
- To appear/2016 Staubs, Robert and Joe Pater. Learning serial constraint-based grammars. To appear in John J. McCarthy & Joe Pater (eds.), *Harmonic Grammar and Harmonic Serialism*. London: Equinox Press.
- 2015 Staubs, Robert. Learning bias in stress windows: frequency and attestation. In *Proceedings of the 2014 Meeting on Phonology*, Linguistic Society of America, Washington DC.
- 2014 Moore-Cantwell, Claire and Robert Staubs. Modeling morphological sub-generalizations. In John Kingston, Claire Moore-Cantwell, Joe Pater, and Robert Staubs (eds.), *Proceedings of the 2013 Meeting on Phonology*, Linguistic Society of America, Washington DC.
- 2014 Staubs, Robert. Learning and the position of primary stress. In R. E. Santana-LaBarge (ed.), *Proceedings of the 31st West Coast Conference on Formal Linguistics (WCCFL 31)*.
- 2013 Staubs, Robert. Pathologies of feature-driven stress. In Yelena Fainleib, Nicholas LaCara, and Yangsook Park (eds.), *NELS 41: Proceedings of the 41st Meeting of the North East Linguistic Society*. 219–232.
- 2012 Pater, Joe, Robert Staubs, Karen Jesney and Brian Smith. Learning probabilities over underlying representations. In *The Proceedings of the Twelfth Meeting of the ACL-SIGMORPHON: Computational Research in Phonetics, Phonology, and Morphology*. 62–71.
- 2006 Staubs, Robert, A. Fedorov, L. Linardakis, D. Benjamin, and N. Chrisochoides. Parallel N -dimensional exact signed Euclidean distance transform. *The Insight Journal*, Vol. July–December, 2006.

Refereed Conferences and Workshops

- 2016 Staubs, Robert. Learning morpheme segmentation with distributions over underlying representations. Poster to be presented at the 2016 Meeting of the Linguistic Society of America. Washington, DC. January 9, 2016.
- 2016 Moore-Cantwell, Claire, Joe Pater, Lisa Sanders, Robert Staubs, and Benjamin Zobel. Phonological learning in the laboratory: ERP evidence. Poster to be presented at the 2016 Meeting of the Linguistic Society of America. Washington, DC. January 9, 2016.
- 2016 Staubs, Robert, Jennifer Culbertson, Coral Hughto, and Joe Pater. Grammar and learning in syntactic and phonological typology. Poster to be presented at the 2016 Meeting of the Linguistic Society of America. Washington, DC. January 8, 2016.
- 2016 Staubs, Robert, Jennifer Culbertson, Coral Hughto, and Joe Pater. Grammar and learning in syntactic and phonological typology. Poster to be presented at the 2016 Meeting of the Linguistic Society of America. Washington, DC. January 8, 2016.

- 2015 Coral Hughto, Joe Pater, and Robert Staubs. Grammatical agent-based modeling of typology. Paper presented at the Implications of Computation and Learnability for Phonological Theory workshop at Generative Linguistics in the Old World (GLOW). Paris: University of Paris Diderot. April 18th, 2015.
- 2015 Staubs, Robert. Computational modeling of nonfinality effects on stress typology. Paper presented at the 33rd West Coast Conference on Formal Linguistics (WCCFL 33). Vancouver: Simon Fraser University. March 28, 2015.
- 2015 Staubs, Robert. Modeling nonfinality effects on the typological frequency of stress systems. Paper presented at the 2015 Meeting of the Linguistic Society of America. Portland, OR. January 11, 2015.
- 2014 Staubs, Robert. Learning bias in stress windows: frequency and attestation. Paper presented at Phonology 2014. Cambridge, MA: Massachusetts Institute of Technology. September 19, 2014.
- 2014 Staubs, Robert. Learning bias in stress windows: frequency and attestation. Paper presented at the 21st Manchester Phonology Meeting. Manchester, UK. May 31, 2014.
- 2013 Moore-Cantwell, Claire and Robert Staubs. Modeling morphological sub-generalizations. Paper presented at Phonology 2013. Amherst, MA: University of Massachusetts Amherst. November 10, 2013.
- 2013 Pater, Joe and Robert Staubs. Feature economy and iterated grammar learning. Paper presented at the 21st Manchester Phonology Meeting. Manchester, UK. May 24, 2013.
- 2013 Staubs, Robert. Learning and the position of primary stress. Paper presented at the 31st West Coast Conference on Formal Linguistics (WCCFL 31). Tempe, AZ: Arizona State University. February, 2013.
- 2012 Pater, Joe, Robert Staubs, Karen Jesney and Brian Smith. Learning probabilities over underlying representations. Paper presented at The Twelfth Meeting of the ACL-SIGMORPHON: Computational Research in Phonetics, Phonology, and Morphology. Montreal, Quebec, Canada. June 7, 2012.
- 2011 Staubs, Robert. Operational exponence: Process morphology in Harmonic Serialism. Paper presented at The Challenges of Complex Morphology to Morphological Theory at the Linguistic Society of America Summer Institute. Boulder, CO: University of Colorado. July 27, 2011
- 2010 Staubs, Robert. Pathologies of feature-driven stress. Paper presented at the 41st Meeting of the North East Linguistic Society (NELS 41). Philadelphia, PA: University of Pennsylvania. October 2010.
- 2010 Naradowsky, Jason, Joe Pater, David Smith, and Robert Staubs. Learning hidden metrical structure with a log-linear model of grammar. Poster presented at the Workshop on Computational Modelling of Sound Pattern Acquisition. Edmonton, Alberta, Canada: University of Alberta. February, 2010.
- 2010 Jesney, Karen, Joe Pater, and Robert Staubs. Restrictive learning with distributions over underlying representations. Presented at the Workshop

on Computational Modelling of Sound Pattern Acquisition. Edmonton, Alberta, Canada: University of Alberta. February, 2010.

- 2010 Pater, Joe, David Smith, Robert Staubs, Karen Jesney, and Ramgopal Mettu. Learning hidden structure with a log-linear model of grammar. Presented at the 2010 Linguistic Society of America Annual Meeting. Baltimore, MD. January, 2010.

Other Presentations

- 2015 Pater, Joe, Coral Hughto, and Robert Staubs. Grammatical agent-based modeling of typology. Presented at the University of Edinburgh Linguistic Circle. Edinburgh. April 2, 2015.
- 2014 Hughto, Coral, Robert Staubs, and Joe Pater. Typological consequences of agent interaction. Presented at the Northeast Computational Phonology Circle (NECPhon 8). NYU. November 15, 2014.
- 2014 Staubs, Robert. Learning bias in stress windows: frequency and attestation. Presented at the 4th Rutgers, UMass, MIT Phonology Meeting (RUMMIT IV). Cambridge, MA: Massachusetts Institute of Technology. April 26, 2014.
- 2013 Pater, Joe and Robert Staubs. Modeling learning trajectories with batch gradient descent. Presented at the Northeast Computational Phonology Circle (NECPhon 7). Cambridge, MA: MIT. October 26, 2013.
- 2013 Staubs, Robert. Probabilistic learning and complexity in phonology. Poster presented at Variation in the Acquisition of Sound Systems Workshop at the Linguistic Society of America Summer Institute. Ann Arbor, MI: University of Michigan. June 28, 2013.
- 2013 Moore-Cantwell, Claire, Joe Pater, Robert Staubs, Benjamin Zobel and Lisa Sanders. ERP indices of lab-learned phonotactics. Presented at the 3rd Rutgers, UMass, MIT Phonology Meeting (RUMMIT III). Amherst, MA: University of Massachusetts Amherst. April 6, 2013.
- 2013 Staubs, Robert. Probabilistic learning and complexity in phonology. Presented at the 3rd Rutgers, UMass, MIT Phonology Meeting (RUMMIT III). Amherst, MA: University of Massachusetts Amherst. April 6, 2013.
- 2011 Staubs, Robert. Learning biases and primary stress orientation. Poster presented at the 2nd UConn Workshop on Stress and Accent. Storrs, Connecticut: University of Connecticut. December 3, 2011.
- 2011 Staubs, Robert. Learning-based biases in quantity-insensitive stress. Presented at the Northeast Computational Phonology Circle (NECPhon 5). New Haven, Connecticut: Yale University. October 15, 2011.
- 2010 Pater, Joe and Robert Staubs. Learning probabilistic Serial Harmonic Grammar. Presented at the Northeast Computational Phonology Circle (NECPhon 4). Amherst, Massachusetts: University of Massachusetts Amherst. October, 2010.
- 2009 Jesney, Karen, Joe Pater and Robert Staubs. Learning distributions over underlying representations. Presented at the Northeast Computational Phonology Circle (NECPhon 3). Cambridge, MA: MIT. October 24, 2009.

Sponsored Research

- 2014–2015 **Senior Personnel**
 Computing Constraint-based Derivations: Phonological Opacity and Hidden Structure Learning
 National Science Foundation Grant BCS-424077
Principal Investigators: John J. McCarthy, Joe Pater
- 2011 **Consultant; Research Assistant**
 2010 Investigations in Optimality Theory: Typology, Learning, and Modeling
 2009 National Science Foundation Grant BCS-0813829
Principal Investigators: John J. McCarthy, Joe Pater
Responsibilities: Developed software tools in Java and R for the investigation of phonological theories.
- 2006 **Research Assistant**
 Work in computational geometry and parallel computation.
Supervisor: Nikos Chrisochoides
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Software

- 2011 Staubs, Robert. 2011. Harmonic Grammar in R (hgR). Software package. Amherst, MA: University of Massachusetts Amherst.
<http://blogs.umass.edu/hgr/>
- 2010 Staubs, Robert, Michael Becker, Christopher Potts, Patrick Pratt, John J. McCarthy & Joe Pater. 2010. OT-Help 2.0. Software package. Amherst, MA: University of Massachusetts Amherst.
<http://web.linguist.umass.edu/~OTHelp/>
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Edited Volumes

- 2014 Kingston, John, Claire Moore-Cantwell, Joe Pater, and Robert Staubs, *Proceedings of the 2013 Meeting on Phonology*, Linguistic Society of America, Washington DC.
- 2013 Kan, Seda, Claire Moore-Cantwell, and Robert Staubs. NELS 40: Proceedings of the 40th Annual Meeting of the North East Linguistic Society. Amherst, MA: GLSA Publications.
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Fellowships, Honors, and Awards

- 2010–2014 National Science Foundation Graduate Research Fellowship, Grant No. S12100000211.
- 2009 High Honors in Computer Science, College of William and Mary
 thesis completed as part of Bachelor of Science
- 2008 Phi Beta Kappa, Alpha of Virginia.

Student Supervision

Generals papers Coral Hughto (Linguistics), member of committee (2014–2015)
 Amanda Rysling (Linguistics), member of committee (2014–2015)

Teaching

Spring 2015 **Lecturer**, *Speech Sounds and Structure*
 Required phonology course for linguistics majors. Approximately 50 students.

Fall 2014 **Lecturer**, *Phonology Proseminar*, “Frequency in phonological typology”
 Seminar required for graduate students specializing in phonology.

Spring 2012 **Teaching Associate**, *Introduction to Theoretical Linguistics*
 Introductory linguistics course for majors. Also fulfills analytic reasoning general education requirement. Approximately 25 students.
Responsibilities: Designed and taught class. Designed syllabus, prepared lectures, wrote and graded homework and exams.

Fall 2011 **Teaching Assistant**, *Introduction to Theoretical Linguistics*
 Introductory linguistics course for majors. Also fulfills analytic reasoning general education requirement.
Responsibilities: Led 2 discussion sections of approximately 20 students each. Prepared exercises and discussion, graded homework and exams.

Service

2015– *Ad hoc* reviewer. *Language*.

2014– *Ad hoc* reviewer. *Phonology*.

2013 Student organizer. Phonology 2013, University of Massachusetts Amherst.

2010–2011 Faculty representative. Graduate Linguistics Student Association, University of Massachusetts Amherst.

Languages English (native)
 Japanese (advanced)

August 8, 2017