

# Jane Chandlee

April 2018

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## EDUCATION

- 2014      Ph.D. Linguistics, University of Delaware  
Thesis: Strictly Local Phonological Processes  
Chair: Jeffrey Heinz
- 2009      M.A. Applied Linguistics, Boston University  
Thesis: Theoretical, Gestural, and Intonational Cues of Discourse Segmentation  
Co-chairs: Cathy O'Connor (BU) and Nanette Veilleux (Simmons College)
- 2006      M.F.A. Creative Writing, Pennsylvania State University, University Park  
Thesis: Cost of Living: stories  
Chair: Charlotte Holmes
- 2002      B.A. English and Computer Science, University of Delaware

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## APPOINTMENTS

- July 2017-                      Assistant Professor, Tri-Co Department of Linguistics, Haverford College, Haverford, PA
- July 2015-July 2017        Visiting Assistant Professor, Department of Computer Science, Haverford College, Haverford, PA
- Spring 2015                    Adjunct Professor, Department of Linguistics and Cognitive Science, University of Delaware, Newark, DE
- 2014-2015                      Postdoctoral Fellow, Center for Pediatric Auditory and Speech Sciences (CPASS), Nemours Biomedical Research, Wilmington, DE
- 2007-2009                      Lecturer, Arts and Sciences Writing Program, Boston University, Boston, MA
- 2006-2007                      Lecturer, Department of English, Pennsylvania State University, University Park, PA

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## PUBLICATIONS

- to appear      Jane Chandlee, Jeffrey Heinz, and Adam Jardine. Input strictly local opaque maps. *Phonology* 35(2).
- 2018            Jane Chandlee and Jeffrey Heinz. Strict locality and phonological maps. *Linguistic Inquiry* 49(1), 23-60.
- 2017            Jane Chandlee. Computational locality in morphological maps. *Morphology* 27(4), 599-641.
- 2016            Jane Chandlee and Jeffrey Heinz. Computational phonology. In Mark Aronoff (ed.), *Oxford Research Encyclopedia of Linguistics*. Oxford University Press. (Invited contribution)
- 2015            Herbert Tanner, Jie Fu, Jeffrey Heinz, Konstantinos Karydis, Jane Chandlee, and Cesar Koirala. Symbolic planning and control using game theory and grammatical inference, *Engineering Applications of Artificial Intelligence* 37, 378-391.
- 2014            Jane Chandlee, Rémi Eyraud, and Jeffrey Heinz. Learning strictly local subsequential functions, *Transactions of the Association for Computational Linguistics* 2, 491-503.
- 2014            Jie Fu, Herbert Tanner, Jeffrey Heinz, and Jane Chandlee. Adaptive symbolic control for finite-state transition systems with grammatical inference. *IEEE Transactions on Automatic Control* 59 (2), 505-511.

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## PAPERS UNDER REVIEW

- under review      Jane Chandlee and Adam Jardine. Phonology and computational modeling. In Elan Dresher and Harry van der Hulst (ed.), *Handbook of the History of Phonology*. Oxford University Press. (Invited contribution)
- under review      Jane Chandlee. Logical characterizations of local vs. long-distance phonology. In Jeffrey Heinz (ed.), *Doing Computational Phonology*. Oxford University Press. (Invited contribution)

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## PAPERS IN PREPARATION

- in prep. Jane Chandlee and Steven Lindell. A logical characterization of input strictly local functions. In Jeffrey Heinz (ed.), *Doing Computational Phonology*. Oxford University Press. (Invited contribution)
- in prep. Jane Chandlee, Rémi Eyraud, and Jeffrey Heinz. Input-output strictly local functions and their efficient learnability.

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## PROCEEDINGS PAPERS

- 2015 Jane Chandlee, Adam Jardine, and Jeffrey Heinz. Learning repairs for marked structures. In *Proceedings of the 2014 Meeting on Phonology*. Linguistics Association of America.
- 2015 Jane Chandlee, Rémi Eyraud, and Jeffrey Heinz. Output strictly local functions. *Proceedings of the 14th Meeting on the Mathematics of Language*.
- 2014 Jane Chandlee and Cesar Koirala. Learning local phonological rules. *Proceedings of the 37th Penn Linguistics Conference*.
- 2014 Jane Chandlee and Adam Jardine. Learning phonological mappings by learning strictly local functions. In John Kingston, Claire Moore-Cantwell, Joe Pater, and Robert Staubs (eds.), *Proceedings of the 2013 Meeting on Phonology*. Linguistics Association of America.
- 2014 Adam Jardine, Jane Chandlee, Rémi Eyraud, and Jeffrey Heinz. Very efficient learning of structured classes of subsequential functions from positive data. In Alexander Clark, Makoto Kanazawa, and Ryo Yoshinaka (eds.) *Proceedings of the 12th International Conference on Grammatical Inference*.
- 2012 Jane Chandlee, Jie Fu, Konstantinos Karydis, Cesar Koirala, Jeffrey Heinz, and Herbert Tanner. Integrating grammatical inference into robotic planning. In Jeffrey Heinz, Colin de la Higuera, and Tim Oates (eds.) *Proceedings of the 11th International Conference on Grammatical Inference 21*, 69-83.
- 2012 Jane Chandlee, Angeliki Athanasopoulou, and Jeffrey Heinz. Evidence for classifying metathesis patterns as subsequential. In Jaehoon Choi, E. Alan Hogue, Jeffrey Punske, Deniz Tat, Jessamyn Schertz, and Alex Trueman (eds.), *Proceedings of the 29th West Coast Conference on Formal Linguistics*. Somerville, MA: Cascadilla Press.

- 2012 Jane Chandlee and Jeffrey Heinz. Bounded copying is subsequential: Implications for metathesis and reduplication. *Proceedings of the 12th Meeting of the ACL Special Interest Group in Computational Morphology and Phonology*, 41-51.
- 2010 Jane Chandlee and Nanette Veilleux. Gestural cues of discourse segmentation. *Proceedings of Speech Prosody 2010*.
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### EDITING

- 2009 Jane Chandlee, Michelle Franchini, Sandy Lord, and Gudrun-Marion Rheiner (eds.), *Proceedings of the 33rd Annual Boston University Conference on Language Development*. Somerville, MA: Cascadilla Press.
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### INVITED TALKS

- 2018 Jane Chandlee. Computational Complexity and the Morpho-Phonological Interface. Penn State University - Brandywine, Media, PA. April 20.
- 2018 Jane Chandlee. Computational Complexity and the Morpho-Phonological Interface. West Chester University, West Chester, PA. April 6.
- 2018 Jane Chandlee. Computational Complexity and the Morpho-Phonological Interface. University of Ottawa, Ottawa, Ontario, Canada. March 14.
- 2017 Jane Chandlee. Locality in Phonological Interactions. Rutgers/Delaware/Haverford Workshop on Computational Phonology, Rutgers University, New Brunswick, NJ. April 28.
- 2017 Jane Chandlee. The Role of Computation in Phonological Typology and Learning. Dartmouth College, Hanover, NH, January 31.
- 2017 Jane Chandlee. The Role of Computation in Phonological Typology and Learning. Haverford College, Haverford, PA, January 25.
- 2017 Jane Chandlee. Locality in Phonological Interactions: A Computational Account. University of California, San Diego, January 18.
- 2017 Jane Chandlee. A Computational Account of Opaque Phonological Interactions. Colloquium Series, University of Chicago Department of Linguistics, Chicago, IL, January 12.

- 2016 Jane Chandlee. Investigating Phonological Typology: A Computational Perspective. Common Ground Seminar, University of Pennsylvania, Philadelphia, PA, February 17.
- 2015 Jane Chandlee. A Subregular Analysis of Phonological Transformations. Stony Brook University, Stony Brook, NY, November 20.
- 2015 Jane Chandlee. The Role of Strict Locality in Computing Phonology: Implications for Typology and Learning. Haverford College, Haverford, PA, April 15.
- 2015 Jane Chandlee. Explaining Phonological Typology: Phonetic and Computational Factors. Reed College, Portland, OR, April 17.

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### CONFERENCE PRESENTATIONS

- 2018 Jonathan Rawski, Jeffrey Heinz, Adam Jardine, and Jane Chandlee. How the Structure of the Constraint Space Facilitates Learning. 10th North American Phonology Conference (NAPhC). Concordia University, Montréal, Québec, May 4-5.
- 2018 Jane Chandlee and Adam Jardine. Computational Locality and Autosegmental Processes. 54th Meeting of the Chicago Linguistic Society (CLS), University of Chicago, Chicago, IL, April 26-28.
- 2017 Jane Chandlee, Jeffrey Heinz, Adam Jardine, and Kevin McMullin. Modeling Long-distance Alternations with Tier-based Strictly Local Functions. 91st Annual Meeting of the Linguistic Society of America (LSA). Austin, TX, January 5-8.
- 2016 Jane Chandlee and Steven Lindell. A Logical Characterization of Strictly Local Functions. Fourth Workshop on Natural Language and Computer Science. New York, New York, July 10.
- 2016 Jane Chandlee. Logical Characterizations of Local vs. Long-distance Phonology (poster). 24th Manchester Phonology Meeting (MFM). Manchester, England, May 26-28.
- 2016 Jane Chandlee and Adam Jardine. Logical Characterizations of Phonological Patterns. Tutorial session on Computation and Learnability in Phonology. 24th Manchester Phonology Meeting. Manchester, England, May 25.
- 2016 Jane Chandlee. Logical Characterizations of Local and Long-distance Phonological Agreement. 9th North American Phonology Conference (NAPhC). Concordia University, Montréal, Québec, May 7-8.

- 2015 Jane Chandlee, Rémi Eyraud, and Jeffrey Heinz. Output Strictly Local Functions. 14th Meeting on the Mathematics of Language, Chicago, IL, July 25-26.
- 2015 Jane Chandlee, Jeffrey Heinz, and Adam Jardine. Representing and Learning Opaque Maps with Strictly Local Functions. Workshop on The Implications of Computation and Learnability for Phonological Theory. GLOW 38. Paris, France, April 18.
- 2015 Jane Chandlee, Jeffrey Heinz, and Adam Jardine. Learning Opaque Mappings (poster). 6th Biannual Generative Approaches to Language Acquisition - North America (GALANA). University of Maryland, College Park, MD, February 19-21.
- 2015 Jane Chandlee and Jeffrey Heinz. Using Locality to Learn Long-distance Processes. 89th Annual Meeting of the Linguistic Society of America (LSA). Portland, OR, January 8-11.
- 2014 Jane Chandlee. Using Output Strict Locality to Model and Learn Long-distance Processes. Northeast Computational Phonology Workshop (NECPhon). NYU, New York, NY, November 15.
- 2014 Jane Chandlee, Adam Jardine, and Jeffrey Heinz. Learning Repairs for Marked Structures (poster). Phonology 2014. MIT, September 19-21.
- 2014 Adam Jardine, Jane Chandlee, Rémi Eyraud, and Jeffrey Heinz. Very Efficient Learning of Structured Classes of Subsequential Functions from Positive Data. 12th International Conference on Grammatical Inference (ICGI). Kyoto, Japan, September 17-19.
- 2014 Jeffrey Heinz, Jane Chandlee, William Idsardi, and James Rogers. The Computational and Logical Nature of Phonological Generalizations. 8th North American Phonology Conference (NAPhC). Concordia University, Montréal, Québec, May 9-10.
- 2014 Jane Chandlee. The Strict Locality of Phonological Processes. 88th Annual Meeting of the Linguistic Society of America (LSA). Minneapolis, MN, January 2-5.
- 2013 Jane Chandlee and Adam Jardine. Learning Phonological Mappings by Learning Strictly Local Functions. Phonology 2013. University of Massachusetts, Amherst, MA, November 8-10.
- 2013 Jane Chandlee. Strictly Local Phonological Processes. Northeast Computational Phonology Workshop (NECPhon). MIT, Cambridge, MA, October 26.

- 2013 Jane Chandlee and Cesar Koirala. Learning Local Phonological Rules. 37th Penn Linguistics Conference (PLC). University of Pennsylvania, Philadelphia, PA, March 22-24.
- 2012 Jane Chandlee, Jie Fu, Konstantinos Karydis, Cesar Koirala, Jeffrey Heinz, and Herbert Tanner. Integrating Grammatical Inference into Robotic Planning. 11th International Conference on Grammatical Inference (ICGI). Washington, D.C., September 5-8.
- 2012 Jane Chandlee and Jeffrey Heinz. Bounded Copying is Subsequential: Implications for Metathesis and Reduplication. 12th Meeting of the ACL Special Interest Group in Computational Morphology and Phonology (SIGMORPHON). Montréal, Québec, June 7.
- 2012 Jane Chandlee. The Role of Bigram and Unigram Frequencies in Phonotactic Acceptability Judgments. 34th Meeting of the Deutsche Gesellschaft für Sprachwissenschaft. Frankfurt, Germany, March 6-9.
- 2012 Jane Chandlee. The Role of Bigram and Unigram Frequencies in Phonotactic Acceptability Judgments. Cognitive Science Graduate Student Conference. University of Delaware, Newark, DE, February 17.
- 2011 Jane Chandlee and Arild Hestvik. ERP Measures Response to Violations of Voicing Agreement Constraint (poster). Neurobiology of Language Conference 2011. Annapolis, MD, November 10-11.
- 2011 Jane Chandlee. Decomposing Metathesis: the Non-regular Status of Unbounded Copying (poster). Mid-Atlantic Student Colloquium on Speech, Language, and Learning. Johns Hopkins University, Baltimore, MD, September 23.
- 2011 Jane Chandlee, Angeliki Athanasopoulou, and Jeffrey Heinz. Evidence for Classifying Metathesis Patterns as Subsequential. West Coast Conference for Formal Linguistics (WCCFL), University of Arizona, Tucson, AZ, April 22-24.
- 2011 Angeliki Athanasopoulou, Jane Chandlee, Cesar Koirala, and Regine Lai. Restricting the Hypothesis Space: Evidence that Phonology is Subsequential (poster). Cognitive Science Graduate Student Conference, University of Delaware, Newark, DE, February 18.
- 2010 Jane Chandlee and Nanette Veilleux. Gestural Cues of Discourse Segmentation (poster). Speech Prosody, Chicago, IL, May 11-14.

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## TEACHING

- 2017- Assistant Professor, Haverford College
- Speech Recognition and Synthesis (CMSC/LING 208)
  - Senior Thesis Seminar (LING 399)
  - Language and Computation: an introduction to programming (LING 104)
  - Phonetics and Phonology (LING 115)
- 2015-2017 Visiting Assistant Professor, Haverford College
- Introduction to Computer Science (CMSC 105)
  - Discrete Mathematics (CMSC/MATH 231)
  - Speech Recognition and Synthesis (CMSC 208)
  - Computational Linguistics (CMSC/LING 325)
- 2015 Adjunct Professor, University of Delaware
- First Language Development (LING 444/644)
- 2012-2013 Instructor, University of Delaware
- Introduction to Linguistics (LING 101)
  - Psycholinguistics (CGSC 496)
  - Laboratory Phonetics (LING 253)
- 2010 Teaching Assistant, University of Delaware
- Introduction to Linguistics (LING 101), Professor Irene Vogel
- 2010 Instructor, English Language Institute, University of Delaware
- English for Academic Purposes: Listening and Speaking Level V
  - English for Academic Purposes: Reading and Writing Level V
- 2007-2009 Instructor, Boston University
- Introduction to College Reading and Writing in English (WR 98-ESL)
  - Comedy and the Comedic Impulse (Writing Seminar) (WR 100)
  - Adaptation (Writing Seminar) (WR 100)
- 2008-2009 Teaching Assistant, Boston University
- Phonetics (LX 510), Professor Jonathan Barnes
  - Syntax I (LX 522), Professor Paul Hagstrom
- 2003-2007 Instructor, Pennsylvania State University, University Park
- Rhetoric and Composition (ENGL 15)



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## RESEARCH EXPERIENCE

- 2014-2015 Postdoctoral fellow, Speech Research Lab, Center for Pediatric Auditory and Speech Sciences, Alfred I. duPont Hospital for Children, Wilmington, Delaware
- 2011-2013 Research Assistant for Jeffrey Heinz, University of Delaware, on NSF grant ‘Efficient Control Synthesis and Learning in Distributed Cyber-Physical Systems’
- 2009-2010 Research Assistant for Arild Hestvik, Experimental Psycholinguistics Laboratory, University of Delaware
- 2008 Research Assistant for Cathy O’Connor, Boston University, on NSF Workshop ‘Animacy and Information Status Annotation’, held in Evanston, IL, September 25-28
- 2008-2009 Research Assistant for Nanette Veilleux, Simmons College, on NSF grant ‘Discourse Structure in Spontaneous American English Dialogues’

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## ADVISING

### SENIOR THESES (HAVERFORD COLLEGE)

- Anita Brown (2018), *Quantitative Metathesis in Ancient Greek*
- Abigail Crum (2018), *The Intonational Phonology of Spoken Word Poetry*
- Sarah Malia Daguio (2018), *Collaborative Human-Machine Translation and its Approach to Code-switching*
- Briana Grenert (2018), *The Shape of Eta: Evolutionary Phonology and the Development of Attic Greek [ɛ:]*
- Audrey Lin (2018), *Sign Language Recognition: Defining subunits by quantified hand-shapes with Hidden Markov Models*
- Connor Cassidy (2017), *Learning Models for Opinion Mining Over a Fundamental Analysis Corpus*
- Kalina Kostyszyn (2017), *A Minimal Rule Generalization Algorithm for Multi-Part Phonological Rule Learning*

- Sophie Rehrig (2017), *Guide to Diphone Synthesis of West Greenlandic*
- Nora Tien (2017), *Machine Translation and Vernacular: Interpreting the Informal*
- Alex Wang (2017), *Music Transposition as a Method of Generating Data for Chord Recognition*
- Daniel Hopkins (2016), *Using Phrase-Structure Rules in Extractive Text Summarization*
- Anh Nguyen (2016), *Phonological Planning in a Computational Model of Bilingual Aphasia*
- Jesse Pazdera (2016), *Computational Modeling of Musical Enculturation: An Investigation of Multicultural Music Learning Using Self-Organizing Maps*

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## REVIEWING

JOURNALS	<i>Phonology</i> <i>Journal of Logic, Language, and Information</i> <i>Glossa</i> <i>Morphology</i>
CONFERENCES	Linguistic Society of America (LSA) Association for Computational Linguistics (ACL) North East Linguistics Society (NELS) Conference on Computational Linguistics (COLING) International Conference on Grammatical Inference (ICGI) Formal Grammar (FG)
GRANTS	National Science Foundation (NSF) Social Sciences and Humanities Research Council of Canada (SSHRC)

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## CONFERENCE COMMITTEES

2012	Conference on Stress and Accent, University of Delaware
2011	Co-organizer, Cognitive Science Graduate Student Conference, University of Delaware
2008-2010	Co-organizer, Boston University Conference on Language Development (BUCLD 33 and 34)
2007	Registration Chair, Boston University Conference on Language Development (BUCLD 32)

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### **HONORS & AWARDS**

- 2013      Dissertation Fellows Award, University of Delaware
- 2012      Professional Development (Travel) Award, University of Delaware
- 2011      Professional Development (Travel) Award, University of Delaware
- 2010      Woman of Promise, University of Delaware

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### **SERVICE**

- 2013      Teaching Assistant Fellow, 2013 TA Conference, University of Delaware
- 2011-2014      President, Linguistics Association of Delaware Graduate Student Organization
- 2010-2011      University of Delaware Department of Linguistics and Cognitive Science  
Colloquium Series Committee

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### **PROFESSIONAL ASSOCIATIONS**

- 2009-present      Member, Linguistics Society of America (LSA)
- 2018-present      Member, Association for Computational Linguistics (ACL)