

# Jeffrey N. Heinz

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## APPOINTMENTS

2017-	Professor, Department of Linguistics & Institute for Advanced Computational Science Stony Brook University
2016-2017	Professor, Department of Linguistics and Cognitive Science. University of Delaware.
2012-2016	Associate Professor, Department of Linguistics and Cognitive Science. University of Delaware.
2009-2017	Joint appointment. Department of Computer and Information Sciences. University of Delaware.
2007-2012	Assistant Professor, Department of Linguistics and Cognitive Science. University of Delaware.

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## VISITING POSITIONS

Fall 2023	Visiting Researcher, Hubert Curien Laboratory. Jean Monnet University, St. Etienne, France.
Summer 2010	Visiting Researcher, Department of Language and Information Sciences. The University of Tokyo, Japan.

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## EDUCATION

2007	Ph.D. Linguistics, UCLA Dissertation Title: Inductive Learning of Phonotactic Patterns (co-chairs: Edward Stabler and Kie Zuraw)
2005	M.A. Linguistics, UCLA M.A. Thesis Title: CV Metathesis in Kwara'ae (chair: Kie Zuraw)
1996	B.S. Mathematics, University of Maryland, College Park
1996	B.A. Linguistics, University of Maryland, College Park

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## AWARDS

- 2022                    SUNY Chancellor’s Award for Excellence in Scholarship  
and Creative Activities for the academic year 2021-2022
- 2017                    Linguistic Society of America Early Career Award  
for “contributions leading to a new computational science of inference and learning  
as applied to language.”
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## FUNDED PROJECTS

12. 2024-2027. Collaborative Research: Subregular Inference of Morpho-phonology. National Science Foundation #2416183. PI. With Jane Chandlee (PI, Haverford College) and Adam Jardine (PI, Rutgers University). ~\$200k.
  11. 2021-2026. NRT-HDR: Detecting and Addressing Bias in Data, Humans, and People. National Science Foundation #2125295. Co-PI. With Susan Brennan (PI), Bonita London (Co-PI), CR Ramakrishnan (Co-PI), and Wei Zhu (Co-PI). ~\$3M.
  10. 2020-2021. Protein Linguistics: Leveraging computational linguistics for faster protein folding. With Ken Dill and Thomas Graf. IACS Seed Funding Grant. ~\$28k.
  9. 2015-2019. SCH: GEAR - Grounded Early Adaptive Rehabilitation. National Institute of Health R01-HD087133. Co-PI. With Herbert G. Tanner (PI, University of Delaware), Cole Galloway, (co-PI, University of Delaware) and Rene Vidal (co-PI, Johns Hopkins University). ~\$1.2M.
  8. 2011-2015. Collaborative Research: StressTyp2: A Database for Word Accentual Patterns in the World’s Languages. National Science Foundation #1123692. PI. With Harry van der Hulst (PI, University of Connecticut). ~\$415k.
  7. 2010-2015. Collaborative Research: Efficient Control Synthesis and Learning in Distributed Cyber-Physical Systems. National Science Foundation #1035577. Co-PI. With Herbert G. Tanner (PI, University of Delaware) and Calin Belta (co-PI, Boston University). ~\$1M.
  6. 2012-2014. Doctoral Dissertation Research: Features and Syllables in Phonotactic Models. National Science Foundation #1226793. PI. With Cesar Koirala (co-PI, University of Delaware). \$10,341.
  5. 2011-2014. Doctoral Dissertation Research: Phonology of Betsimisaraka. National Science Foundation #1123609. PI. With Timothy O’Neill (co-PI, University of Delaware). \$11,803.
  4. 2011-2013. Doctoral Dissertation Research: Domain Specificity in Learning Phonology. National Science Foundation #1123610. PI. With Regine Lai (co-PI, University of Delaware). \$6,575.
  3. Summer 2009. Research Experience for Undergraduates. University of Delaware Research Fund (UDRF) \$3,500.
  2. Summer 2009. The Contribution of Phonological Features to Language Learning. General University Research (GUR) Grant, \$6,000.
  1. 2008-2009. Computational Models of Phonological Acquisition. University of Delaware Research Fund (UDRF) Grant, \$25,000.
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## BOOKS AUTHORED

1. Jeffrey Heinz, Colin de la Higuera, and Menno van Zaanen. *Grammatical Inference for Computational Linguistics*. Synthesis Lectures on Human Language Technologies. Morgan and Claypool, 2015.
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## BOOKS EDITED

3. Rob Goedemans, Jeffrey Heinz, and Harry van der Hulst, editors. *The Study of Word Stress and Accent*. Cambridge University Press, 2019.
  2. Jeffrey Heinz and José Sempere, editors. *Topics in Grammatical Inference*. Springer-Verlag, Berlin Heidelberg, 2016. ISBN 978-3-662-48395-4.
  1. Jeffrey Heinz, Rob Goedemans, and Harry van der Hulst, editors. *Dimensions of Phonological Stress*. Cambridge University Press, November 2016.
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## BOOK PROPOSALS UNDER CONTRACT

1. Jeffrey Heinz, Hossep Dolatian, and Kristina Strother-Garcia, editors. *Doing Computational Phonology*. Oxford University Press. Approximately 300 page monograph consisting of chapters by Heinz’s colleagues and students on why and how to do computational phonology.
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## GUEST EDITING FOR JOURNALS

2. Jeffrey Heinz and William Idsardi, editors. *Phonology*, Special issue on computational phonology, 34(2), August 2017. Colin Ewen and Ellen Kaisse, editors-in-chiefs.
  1. Jeffrey Heinz, Colin de la Higuera, and Tim Oates, editors. *Machine Learning*, Special issue on grammatical inference, 96(1-2), July 2014. Peter Flach, editor-in-chief.
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## JOURNAL ARTICLES

32. Logan Swanson, Jeffrey Heinz, and Jon Rawski. Phonotactic learning and constraint selection without statistics. *Linguistic Inquiry*, forthcoming. Accepted for publication subject to minor revisions.
31. Dakotah Lambert and Jeffrey Heinz. Interpreting state, with focus on metaphonic processes. *Phonology*, Forthcoming. Accepted for publication.
30. Jeffrey Heinz. The logical structure of phonological generalizations. *Phonological Studies*, 28: 69–80, 2025.
29. Scott Nelson and Jeffrey Heinz. The blueprint model of production. *Phonology*, 42(e12):1–33, 2025. doi: 10.1017/S0952675725100055.
28. Sam van der Poel, Dakotah Lambert, Kalina Kostyszyn, Tiantian Gao, Rahul Verma, Derek Andersen, Joanne Chau, Emily Peterson, Cody St. Clair, Paul Fodor, Chihiro Shibata, and

- Jeffrey Heinz. Mlregtest: A benchmark for the machine learning of regular languages. *Journal of Machine Learning Research*, 25(283):1–45, 2024. URL <http://jmlr.org/papers/v25/23-0518.html>.
27. Jonathan Rawski, Hossep Dolatian, Jeffrey Heinz, and Eric Raimy. Regular and polyregular theories of reduplication. *Glossa: a journal of general linguistics*, 8(1):1–38, 2023. doi: <https://doi.org/10.16995/glossa.8885>.
  26. Dakotah Lambert, Jonathan Rawski, and Jeffrey Heinz. Typology emerges from simplicity in representations and learning. *Journal of Language Modelling*, 9(1):151–194, 2021.
  25. Jonathan Rawski, William Idsardi, and Jeffrey Heinz. Comment on “Nonadjacent dependency processing in monkeys, apes, and humans”. *Science Advances*, 7(30), July 2021.
  24. Hossep Dolatian and Jeffrey Heinz. Computing and classifying reduplication with 2-way finite-state transducers. *Journal of Language Modelling*, 8(1):179–250, 2020.
  23. Elena Kokkoni, Effrosyni Mavroudi, Ashkan Zehfroosh, James C. Galloway, Rene Vidal, Jeffrey Heinz, and Herbert G. Tanner. GEARing smart environments for pediatric motor rehabilitation. *Journal of NeuroEngineering and Rehabilitation*, 17(16), February 2020.
  22. Jonathan Rawski and Jeffrey Heinz. No free lunch in linguistics or machine learning: Response to Pater. *Language*, 95(1):e125–e135, 2019.
  21. Mai Ha Vu, Ashkan Zehfroosh, Kristina Strother-Garcia, Michael Sebok, Jeffrey Heinz, and Herbert G. Tanner. Statistical relational learning with unconventional string models. *Frontiers in Robotics and AI*, 5(76):1–26, July 2018.
  20. Jane Chandlee, Jeffrey Heinz, and Adam Jardine. Input strictly local opaque maps. *Phonology*, 35(2):171–205, Jun 2018.
  19. Jane Chandlee and Jeffrey Heinz. Strict locality and phonological maps. *Linguistic Inquiry*, 49(1):23–60, Jan 2018.
  18. Jeffrey Heinz and William Idsardi. Computational phonology today. *Phonology*, 34(2):211–219, August 2017.
  17. Konstantinos Karydis, Prasanna Kannappan, Herbert G. Tanner, Adam Jardine, and Jeffrey Heinz. Resilience through learning in multi-agent cyber-physical systems. *Frontiers in Robotics and AI*, 3(36):1–12, June 2016.
  16. Adam Jardine and Jeffrey Heinz. Learning tier-based strictly 2-local languages. *Transactions of the Association for Computational Linguistics*, 4:87–98, April 2016.
  15. Jie Fu, Herbert G. Tanner, and Jeffrey Heinz. Concurrent multi-agent systems with temporal logic objectives: Game theoretic analysis and planning through negotiation. *IET Control Theory and Applications*, 9(3):465–474, February 2015.
  14. Jie Fu, Herbert G. Tanner, 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, January 2015.
  13. Jane Chandlee, Rémi Eyraud, and Jeffrey Heinz. Learning strictly local subsequential functions. *Transactions of the Association for Computational Linguistics*, 2:491–503, November 2014.
  12. Jeffrey Heinz, Colin de la Higuera, and Tim Oates. Introduction to the special issue on grammatical inference. *Machine Learning*, 96(1-2):1–3, July 2014.
  11. Jie Fu, Herbert G. 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, February 2014.
  10. Jeffrey Heinz and William Idsardi. What complexity differences reveal about domains in language. *Topics in Cognitive Science*, 5(1):111–131, 2013.

9. Darrell Larsen and Jeffrey Heinz. Neutral vowels in sound-symbolic vowel harmony in Korean. *Phonology*, 29:433–464, December 2012.
8. Jeffrey Heinz, Anna Kasprzik, and Timo Kötzing. Learning with lattice-structured hypothesis spaces. *Theoretical Computer Science*, 457:111–127, October 2012.
7. Jeffrey Heinz and William Idsardi. Sentence and word complexity. *Science*, 333(6040):295–297, July 2011.
6. Jeffrey Heinz. Computational phonology part II: Grammars, learning, and the future. *Language and Linguistics Compass*, 5(4):153–168, 2011.
5. Jeffrey Heinz. Computational phonology part I: Foundations. *Language and Linguistics Compass*, 5(4):140–152, 2011.
4. Jeffrey Heinz. Learning long-distance phonotactics. *Linguistic Inquiry*, 41(4):623–661, 2010.
3. Daniel Blanchard, Jeffrey Heinz, and Roberta Golinkoff. Modeling the contribution of phonotactic cues to the problem of word segmentation. *The Journal of Child Language*, 37(3):487–511, 2010. Special Computational Issue (Brian MacWhinney, ed.).
2. Jeffrey Heinz. On the role of locality in learning stress patterns. *Phonology*, 26(2):303–351, 2009.
1. Jeffrey Heinz, Gregory Kobele, and Jason Riggle. Evaluating the complexity of Optimality Theory. *Linguistic Inquiry*, 40(2):277–288, 2009.

#### INVITED CHAPTERS (PEER-REVIEWED)

9. Steven Bird and Jeffrey Heinz. Phonology. In Ruslan Mitkov, editor, *The Oxford Handbook of Computational Linguistics*, chapter 1. Oxford University Press, 2nd edition, 2022.
8. Eric Bakovic, Jeffrey Heinz, and Jonathan Rawski. Phonological abstraction in the mental lexicon. In Lila Gleitman, Anna Papafragou, and John Trueswell, editors, *Oxford Handbook of the Mental Lexicon*. Oxford University Press, 2022.
7. Jeffrey Heinz and Jonathan Rawski. History of phonology: Learnability. In Elan Dresher and Harry van der Hulst, editors, *Oxford Handbook of the History of Phonology*, chapter 32. Oxford University Press, 2022.
6. Jeffrey Heinz. The computational nature of phonological generalizations. In Larry Hyman and Frans Plank, editors, *Phonological Typology*, Phonetics and Phonology, chapter 5, pages 126–195. De Gruyter Mouton, 2018.
5. Jane Chandlee and Jeffrey Heinz. Computational phonology. In Mark Aronoff, editor, *Oxford Research Encyclopedia of Linguistics*. Oxford University Press, 2017.
4. Jeffrey Heinz. Computational theories of learning and developmental psycholinguistics. In Jeffrey Lidz, William Synder, and Joe Pater, editors, *The Oxford Handbook of Developmental Linguistics*, chapter 27, pages 633–663. Oxford University Press, Oxford, UK, 2016.
3. Rémi Eyraud, Jeffrey Heinz, and Ryo Yoshinaka. Efficiency in the identification in the limit learning paradigm. In Heinz and Sempere (2016), chapter 2, pages 25–46. ISBN 978-3-662-48395-4.
2. Jeffrey Heinz. Culminativity times harmony equals unbounded stress. In Harry van der Hulst, editor, *Word Stress: Theoretical and Typological Issues*, chapter 8. Cambridge University Press, Cambridge, UK, 2014.
1. Jeffrey Heinz and Jason Riggle. Learnability. In Marc van Oostendorp, Colin Ewen, Beth Hume, and Keren Rice, editors, *Blackwell Companion to Phonology*. Wiley-Blackwell, 2011.

## SOFTWARE PRODUCTS

3. Bufia. A phonotactic learning algorithm based on Chandlee et al. 2019.  
<https://github.com/heinz-jeffrey/bufia>.
2. RedTyp. A database of reduplication patterns in the world’s languages.  
<https://github.com/jhdeov/RedTyp>
1. StressTyp2. A database of the stress patterns in the world’s languages.  
<http://st2.ullet.net/>

## PAPER-REVIEWED PROCEEDINGS PAPERS

45. Dakotah Lambert and Jeffrey Heinz. Algebraic reanalysis of phonological processes described as output-oriented. In *Proceedings of the Society for Computation in Linguistics*, volume 7, pages 129–138, 2024. doi: <https://doi.org/10.7275/scil.2137>.
44. Philip Kaelbling, Dakotah Lambert, and Jeffrey Heinz. Robust identification in the limit from incomplete positive data. In Henning Fernau and Klaus Jansen, editors, *Fundamentals of Computation Theory*, volume 14292 of *Lecture Notes in Computer Science*, pages 276–290. Springer Nature Switzerland, 2023. doi: [https://doi.org/10.1007/978-3-031-43587-4\\_20](https://doi.org/10.1007/978-3-031-43587-4_20).
43. Katherine Wu and Jeffrey Heinz. String extension learning despite noisy intrusions. In François Coste, Faissal Ouardi, and Guillaume Rabusseau, editors, *Proceedings of 16th edition of the International Conference on Grammatical Inference*, volume 217 of *Proceedings of Machine Learning Research*, pages 80–95. PMLR, 10–13 Jul 2023.
42. Adil Soubki and Jeffrey Heinz. Benchmarking state-merging algorithms for learning regular languages. In François Coste, Faissal Ouardi, and Guillaume Rabusseau, editors, *Proceedings of 16th edition of the International Conference on Grammatical Inference*, volume 217 of *Proceedings of Machine Learning Research*, pages 181–198. PMLR, 10–13 Jul 2023.
41. Magdalena Markowska and Jeffrey Heinz. Empirical and theoretical arguments for using properties of letters for the learning of sequential functions. In François Coste, Faissal Ouardi, and Guillaume Rabusseau, editors, *Proceedings of 16th edition of the International Conference on Grammatical Inference*, volume 217 of *Proceedings of Machine Learning Research*, pages 270–274. PMLR, 10–13 Jul 2023.
40. Rémi Eyraud, Dakotah Lambert, Badr Tahri Joutei, Aidar Gaffarov, Mathias Cabanne, Jeffrey Heinz, and Chihiro Shibata. Taysir competition: Transformer+RNN: Algorithms to yield simple and interpretable representations. In François Coste, Faissal Ouardi, and Guillaume Rabusseau, editors, *Proceedings of 16th edition of the International Conference on Grammatical Inference*, volume 217 of *Proceedings of Machine Learning Research*, pages 275–290. PMLR, 10–13 Jul 2023.
39. Dakotah Lambert and Jeffrey Heinz. An algebraic characterization of total input strictly local functions. In *Proceedings of the Society for Computation in Linguistics*, volume 6, pages 25–34, 2023. doi: <https://doi.org/10.7275/Q54B-MG07>.
38. Scott Nelson and Jeffrey Heinz. Incomplete neutralization and the blueprint model of production. In Peter Jurgec, Liisa Duncan, Emily Elfner, Yoonjung Kang, Alexei Kochetov, Brittny K. O’Neill, Avery Ozburn, Keren Rice, Nathan Sanders, Jessamyn Schertz, Nate Shaftoe, and Lisa Sullivan, editors, *Proceedings of the 2021 Annual Meeting on Phonology*, Washington, DC, 2022. Linguistic Society of America. <https://doi.org/10.3765/amp.v9i0.5304>.

37. Magdalena Markowska, Jeffrey Heinz, and Owen Rambow. Finite-state model of shupamem reduplication. In *Proceedings of the 18th SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology*, pages 212–221, Online, August 2021. Association for Computational Linguistics.
36. Hossep Dolatian, Jonathan Rawski, and Jeffrey Heinz. Strong generative capacity of morphological processes. In *Proceedings of the Society for Computation in Linguistics*, volume 4, pages 228–243, February 2021.
35. Jing Ji and Jeffrey Heinz. Input strictly local tree transducers. In A. Leporati, C. Martín-Vide, D. Shapira, and C. Zandron, editors, *Proceedings of the 14th International Conference on Language and Automata Theory and Applications (LATA 2020)*, Lecture Notes in Computer Science, pages 369–381. Springer, 2020.
34. Arya D. McCarthy, Ekaterina Vylomova, Shijie Wu, Chaitanya Malaviya, Lawrence Wolf-Sonkin, Garrett Nicolai, Christo Kirov, Miikka Silfverberg, Sebastian J. Mielke, Jeffrey Heinz, Ryan Cotterell, and Mans Hulden. The SIGMORPHON 2019 shared task: Morphological analysis in context and cross-lingual transfer for inflection. In *Proceedings of the 16th Workshop on Computational Research in Phonetics, Phonology, and Morphology*, pages 229–244, Florence, Italy, August 2019. Association for Computational Linguistics.
33. Jane Chandlee, Remi Eyraud, Jeffrey Heinz, Adam Jardine, and Jonathan Rawski. Learning with partially ordered representations. In *Proceedings of the 16th Meeting on the Mathematics of Language*, pages 91–101, Toronto, Canada, 18–19 July 2019. Association for Computational Linguistics.
32. Chihiro Shibata and Jeffrey Heinz. Maximum likelihood estimation of factored regular deterministic stochastic languages. In *Proceedings of the 16th Meeting on the Mathematics of Language*, pages 102–113, Toronto, Canada, 18–19 July 2019. Association for Computational Linguistics.
31. Hossep Dolatian and Jeffrey Heinz. Redtyp: A database of reduplication with computational models. In *Proceedings of the Society for Computation in Linguistics*, volume 2, 2019. Article 3.
30. Ashkan Zehfroosh, Jeffrey Heinz, and Herbert G. Tanner. Learning option MDPs from small data. In *Proceedings of the 2018 American Control Conference*, Milwaukee, Wisconsin, USA, June 2018. IEEE Control Systems Society.
29. Hossep Dolatian and Jeffrey Heinz. Modeling reduplication with 2-way finite-state transducers. In *Proceedings of the Fifteenth Workshop on Computational Research in Phonetics, Phonology, and Morphology*, pages 66–77, Brussels, Belgium, October 2018. Association for Computational Linguistics. doi: 10.18653/v1/W18-5807.
28. Hossep Dolatian and Jeffrey Heinz. Learning reduplication with 2-way finite-state transducers. In Olgierd Unold, Witold Dyrka, and Wojciech Wiecek, editors, *Proceedings of the 14th International Conference on Grammatical Inference*, volume 93 of *Proceedings of Machine Learning Research*, pages 67–80. PMLR, 05–07 Sep 2018.
27. Enes Avcu, Chihiro Shibata, and Jeffrey Heinz. Subregular complexity and deep learning. In Simon Dobnik and Shalom Lappin, editors, *CLASP Papers in Computational Linguistics: Proceedings of the Conference on Logic and Machine Learning in Natural Language (LaML 2017)*, Gothenburg, 12–13 June, pages 20–33, 2017.
26. Ashkan Zehfroosh, Elena Kokkoni, Herbert G. Tanner, and Jeffrey Heinz. Learning models of human-robot interaction from small data. In *Proceedings of the 25th IEEE Mediterranean Conference on Control and Automation*, pages 223–228, 2017.
25. Elena Kokkoni, Ashkan Zehfroosh, Prasanna Kannappan, Effrosyni Mavroudi, James C. Galloway, Jeffrey Heinz, Rene Vidal, and Herbert G. Tanner. Principles of building “smart”

- learning environments in pediatric early rehabilitation. In *Robotics: Science and Systems; Workshop on Perception and Interaction Dynamics in Child-Robot Interaction*, 2017.
24. Kristina Strother-Garcia, Jeffrey Heinz, and Hyun Jin Hwangbo. Using model theory for grammatical inference: a case study from phonology. In Sicco Verwer, Menno van Zaanen, and Rick Smetsers, editors, *Proceedings of The 13th International Conference on Grammatical Inference*, volume 57 of *JMLR: Workshop and Conference Proceedings*, pages 66–78, October 2016.
  23. Chihiro Shibata and Jeffrey Heinz. Predicting sequential data with lstms augmented with strictly 2-piecewise input vectors. In Sicco Verwer, Menno van Zaanen, and Rick Smetsers, editors, *Proceedings of The 13th International Conference on Grammatical Inference*, volume 57 of *JMLR: Workshop and Conference Proceedings*, pages 137–142, October 2016.
  22. Prasanna Kannappan, Konstantinos Karydis, Herbert G. Tanner, Adam Jardine, and Jeffrey Heinz. Incorporating learning modules improves aspects of resilience of supervisory cyber-physical systems. In *Proceedings of the 24th Mediterranean Conference on Control and Automation (MED 16)*, 2016.
  21. Kevin Leahy, Prasanna Kannappan, Adam Jardine, Herbert G. Tanner, Jeffrey Heinz, and Calin Belta. Integration of deterministic inference with formal synthesis for control under uncertainty. In *Proceedings of the 2016 American Control Conference (ACC)*, pages 4829–4834, July 2016.
  20. Jane Chandlee, Rémi Eyraud, and Jeffrey Heinz. Output strictly local functions. In Marco Kuhlmann, Makoto Kanazawa, and Gregory M. Kobele, editors, *Proceedings of the 14th Meeting on the Mathematics of Language (MoL 2015)*, pages 112–125, Chicago, USA, July 2015.
  19. Adam Jardine and Jeffrey Heinz. A concatenation operation to derive autosegmental graphs. In *Proceedings of the 14th Meeting on the Mathematics of Language (MoL 2015)*, pages 139–151, Chicago, USA, July 2015.
  18. 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, editors, *Proceedings of the Twelfth International Conference on Grammatical Inference (ICGI 2014)*, volume 34, pages 94–108. *JMLR: Workshop and Conference Proceedings*, September 2014.
  17. Manex Agirrezabal, Jeffrey Heinz, Mans Hulden, and Bertol Arrieta. Assigning stress to out-of-vocabulary words: three approaches. In *Proceedings of the International Conference of Artificial Intelligence (ICAI 2014)*, pages 105–110, Las Vegas, NV, July 2014.
  16. Jie Fu, Herbert G. Tanner, and Jeffrey Heinz. Adaptive planning in unknown environments using grammatical inference. In *Decision and Control (CDC), 2013 IEEE 52nd Annual Conference on*, pages 5357–5363, December 2013.
  15. Jeffrey Heinz and Regine Lai. Vowel harmony and subsequentiality. In Andras Kornai and Marco Kuhlmann, editors, *Proceedings of the 13th Meeting on the Mathematics of Language (MoL 13)*, pages 52–63, Sofia, Bulgaria, 2013.
  14. Jeffrey Heinz and James Rogers. Learning subregular classes of languages with factored deterministic automata. In Andras Kornai and Marco Kuhlmann, editors, *Proceedings of the 13th Meeting on the Mathematics of Language (MoL 13)*, pages 64–71, Sofia, Bulgaria, August 2013. Association for Computational Linguistics.
  13. James Rogers, Jeffrey Heinz, Margaret Fero, Jeremy Hurst, Dakotah Lambert, and Sean Wibel. Cognitive and sub-regular complexity. In Glyn Morrill and Mark-Jan Nederhof, editors, *Formal Grammar*, volume 8036 of *Lecture Notes in Computer Science*, pages 90–108. Springer, 2013.



12. Jane Chandlee, Jie Fu, Konstantinos Karydis, Cesar Koirala, Jeffrey Heinz, and Herbert G. Tanner. Integrating grammatical inference into robotic planning. In Jeffrey Heinz, Colin de la Higuera, and Tim Oates, editors, *Proceedings of the Eleventh International Conference on Grammatical Inference (ICGI 2012)*, volume 21, pages 69–83. JMLR Workshop and Conference Proceedings, August 2012.
11. Jane Chandlee and Jeffrey Heinz. Bounded copying is subsequential: Implications for metathesis and reduplication. In *Proceedings of the 12th Meeting of the ACL Special Interest Group on Computational Morphology and Phonology*, pages 42–51, Montreal, Canada, June 2012. Association for Computational Linguistics.
10. Chetan Rawal, Herbert G. Tanner, and Jeffrey Heinz. (Sub)regular robotic languages. In *IEEE Mediterranean Conference on Control and Automation*, pages 321–326, 2011.
9. Jeffrey Heinz, Chetan Rawal, and Herbert G. Tanner. Tier-based strictly local constraints for phonology. In *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics*, pages 58–64, Portland, Oregon, USA, June 2011. Association for Computational Linguistics.
8. Jie Fu, Jeffrey Heinz, and Herbert G. Tanner. An algebraic characterization of strictly piecewise languages. In Mitsunori Ogihara and Jun Tarui, editors, *Theory and Applications of Models of Computation*, volume 6648 of *Lecture Notes in Computer Science*, pages 252–263. Springer Berlin / Heidelberg, 2011.
7. James Rogers, Jeffrey Heinz, Gil Bailey, Matt Edlefsen, Molly Visscher, David Wellcome, and Sean Wibel. On languages piecewise testable in the strict sense. In Christian Ebert, Gerhard Jäger, and Jens Michaelis, editors, *The Mathematics of Language*, volume 6149 of *Lecture Notes in Artificial Intelligence*, pages 255–265. Springer, 2010.
6. Jeffrey Heinz and Cesar Koirala. Maximum likelihood estimation of feature-based distributions. In *Proceedings of the 11th Meeting of the ACL Special Interest Group on Computational Morphology and Phonology*, pages 28–37, Uppsala, Sweden, July 2010. Association for Computational Linguistics.
5. Jeffrey Heinz. String extension learning. In *Proceedings of the 48th Annual Meeting of the Association for Computational Linguistics*, pages 897–906, Uppsala, Sweden, July 2010. Association for Computational Linguistics.
4. Jeffrey Heinz and James Rogers. Estimating strictly piecewise distributions. In *Proceedings of the 48th Annual Meeting of the Association for Computational Linguistics*, pages 886–896, Uppsala, Sweden, July 2010. Association for Computational Linguistics.
3. Jeffrey Heinz. Left-to-right and right-to-left iterative languages. In Alexander Clark, François Coste, and Lauren Miclet, editors, *Grammatical Inference: Algorithms and Applications, 9th International Colloquium*, volume 5278 of *Lecture Notes in Computer Science*, pages 84–97. Springer, 2008.
2. Daniel Blanchard and Jeffrey Heinz. Improving word segmentation by simultaneously learning phonotactics. In Alexander Clark and Kristina Toutanova, editors, *Proceedings of the Conference on Natural Language Learning*, pages 65–72, 2008.
1. Jeffrey Heinz. Learning quantity insensitive stress systems via local inference. In *Proceedings of the Eighth Meeting of the ACL Special Interest Group on Computational Phonology and Morphology at HLT-NAACL 2006*, pages 21–30, New York City, USA, June 2006. Association for Computational Linguistics.

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 ABSTRACT-REVIEWED PROCEEDINGS PAPERS

11. Scott Nelson and Jeffrey Heinz. Incomplete neutralization and the blueprint model of production. In Peter Jurgec, Liisa Duncan, Emily Elfner, Yoonjung Kang, Alexei Kochetov, Brittny K. O'Neill, Avery Ozburn, Keren Rice, Nathan Sanders, Jessamyn Schertz, Nate Shaftoe, and Lisa Sullivan, editors, *Proceedings of the 2021 Annual Meeting on Phonology*, Washington, DC, 2022. Linguistic Society of America. <https://doi.org/10.3765/amp.v9i0.5304>.
  10. Kalina Kostyszyn and Jeffrey Heinz. Categorical account of gradient acceptability of word-initial Polish onsets. In Peter Jurgec, Liisa Duncan, Emily Elfner, Yoonjung Kang, Alexei Kochetov, Brittny K. O'Neill, Avery Ozburn, Keren Rice, Nathan Sanders, Jessamyn Schertz, Nate Shaftoe, and Lisa Sullivan, editors, *Proceedings of the 2021 Annual Meeting on Phonology*, Washington, DC, 2022. Linguistic Society of America. <https://doi.org/10.3765/amp.v9i0.5317>.
  9. Adam Jardine and Jeffrey Heinz. Markedness constraints are negative: an autosegmental constraint definition language. In Ksenia Ershova, Joshua Falk, and Jeffrey Geiger, editors, *CLS 51*, pages 301–315, Chicago, IL, 2016. Chicago Linguistic Society.
  8. Jane Chandlee, Adam Jardine, and Jeffrey Heinz. Learning repairs for marked structures. In Adam Albright and Michelle A. Fullwood, editors, *Proceedings of the 2014 Annual Meeting of Phonology*, Washington, DC, 2016. Linguistic Society of America.
  7. Jane Chandlee, Angeliki Athanasopoulou, and Jeffrey Heinz. Evidence for classifying metathesis patterns as subsequential. In *The Proceedings of the 29th West Coast Conference on Formal Linguistics*, pages 303–309. Cascillida Press, 2012.
  6. Brian Gainor, Regine Lai, and Jeffrey Heinz. Computational characterizations of vowel harmony patterns and pathologies. In *The Proceedings of the 29th West Coast Conference on Formal Linguistics*, pages 63–71, 2012.
  5. Jeffrey Heinz. Learning unbounded stress systems via local inference. In Emily Elfner and Martin Walkow, editors, *Proceedings of the 37th Meeting of the Northeast Linguistics Society*, 2007. University of Illinois, Urbana-Champaign.
  4. Jeffrey Heinz. Learning phonotactic grammars from surface forms. In Donald Baumer, David Montero, and Michael Scanlon, editors, *Proceedings of the 25th West Coast Conference of Formal Linguistics*, 2006. University of Washington, Seattle.
  3. Jeffrey Heinz. Reconsidering linearity: Evidence from CV metathesis. In *Proceedings of WCCFL 24*. Cascillida Press, 2005.
  2. Jeffrey Heinz. Optional partial metathesis in Kwara'ae. In *Proceedings of AFLA 12*, pages 91–102. UCLA Working Papers, 2005.
  1. Jeffrey Heinz. Description and analysis of surface patterns in Kwara'ae. In *Working Papers in Phonology*, pages 57–92. UCLA Working Papers, 2005.
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## THESES

2. Jeffrey Heinz. *Inductive Learning of Phonotactic Patterns*. PhD thesis, UCLA.
1. Jeffrey Heinz. CV metathesis in Kwara'ae. Master's thesis, University of California, Los Angeles, 2004.

## INVITED TALKS

53. Jeffrey Heinz. *Locality and relativized locality as essential organizing principles of phonology*. Stony Brook, NY, April 2025. Locality Workshop at Stony Brook University.
52. Jeffrey Heinz. *The Logical Structure of Phonological Generalizations*. Nagoya, Japan, August 2024. The Phonological Society of Japan. Phonology Forum.
51. Dakotah Lambert and Jeffrey Heinz. *Algebraic Reanalysis of Phonological Spreading*. Paris, France, November 2023. Structures Formelles du Langage, CNRS.
50. Jeffrey Heinz. *A Benchmark for the Machine Learning of Regular Languages*. St. Etienne, France, November 2023. Hubert Curien Laboratory, Jean Monnet University.
49. Jeffrey Heinz. *Learning String-to-String Functions*. St. Etienne, France, October 2023. Hubert Curien Laboratory, Jean Monnet University.
48. Dakotah Lambert and Jeffrey Heinz. *An Algebraic Characterization of Total Input Strictly Local Functions*. University of Massachusetts, Amherst, June 2023. Society for Computation in Language.
47. Jeffrey Heinz. *Regular Transformations in Linguistics*. Schloss Dagstuhl, Germany, May 2023. Seminar on regular transformations.
46. Jeffrey Heinz. *What's New in Mathematical Linguistics*. Virtual New York Institute, January 2023.
45. Jeffrey Heinz. *A subregular benchmark for sequence classification*. Paris, France, July 2022. Workshop of ICALP 2022.
44. Jeffrey Heinz. *Making Copies*. Massachusetts Institute of Technology, April 2021. Linguistics Department Colloquium Series.
43. Jeffrey Heinz. *Learning Constraints over Representations of Your Own Choosing*. Massachusetts Institute of Technology, April 2021. Linguistics Department Invited Minicourse.
42. Jeffrey Heinz. *Deterministic Analyses of Optional Processes*. University of Leipzig, December 2020. Linguistics Colloquium Series.
41. Jeffrey Heinz. *Deterministic Analyses of Optional Processes*. UC Irvine, December 2020. Language Sciences Colloquium Series.
40. Jeffrey Heinz. *Deterministic Analyses of Optional Processes*. Yale University, December 2020. Linguistics Colloquium Series.
39. Marianne Bellotti and Jeffrey Heinz. *Writing a BNF Grammar (featuring Prof Jeff Heinz)*. Marianne Writes a Programming Language, December 2020. Interview about Computational Linguistics (podcast).
38. Jeffrey Heinz. *What are Morphological Transformations?* Neuroscience of Language Lab at NYU, November 2020. Morphological Processing Project.
37. Jeffrey Heinz. *What Does Learning Mean?* Stony Brook, NY, February 2020. Institute for AI-Driven Discovery and Innovation. Seminar Series.
36. Jeffrey Heinz. *Mathematical Linguistics in the 21st Century*. New Orleans, LA, January 2020. Workshop On Formal Language Theory. Society for Computation in Language.
35. Jeffrey Heinz. *Deterministic Analyses of Optional Processes*. Rutgers University, November 2019. Linguistics Colloquium Series.
34. Jeffrey Heinz. *Model Theory Beyond Semantics*. New York University, May 2019.
33. Jeffrey Heinz. *Actors in Typological Structure: A play in three acts*. Stanford University, September 2018. Workshop on Analyzing Typological Structure.

32. Jeffrey Heinz. *The computational nature of phonological generalizations*. Michigan State University, April 2018. Linguistics Colloquium Series.
31. Jeffrey Heinz. *Subregular Sets, Functions, Relations and their Learnability*. Google, New York City, February 2018. Speech and Language Algorithms research group.
30. Jeffrey Heinz. *The computational nature of phonological generalizations*. University of Pennsylvania, PA, November 2017. Linguistics Colloquium Series.
29. Jeffrey Heinz. *Subregular Complexity and Machine Learning*. Stony Brook University, NY, September 2017. IACS seminar. Joint work with Enes Avcu and Chihiro Shibata.
28. Jeffrey Heinz. *The computational nature of phonological generalizations*. Rutgers University, NJ, April 2017. Workshop on Computational Phonology.
27. Jeffrey Heinz and William Idsardi. *Perspectives on Computational Linguistics*. University of Maryland, College Park, January 2017. Department of Linguistics, Winterstorm.
26. Jeffrey Heinz. *Representation and Computation in Phonology*. Stony Brook University, Stony Brook, NY, May 2016. Linguistics Colloquium Series.
25. Jeffrey Heinz. *The computational nature of phonological generalizations: transformations and representations*. University of California, Berkeley, CA, May 2015. Berkeley Linguistics Colloquium.
24. Jeffrey Heinz and Adam Jardine. *Remarks on Autosegmental Representations*. University of California, Berkeley, CA, May 2015. Berkeley Phonology Phorum.
23. Jeffrey Heinz. *Representing and Learning Regular Sets and Functions*. University of Pennsylvania, Philadelphia, PA, November 2014. PRECISE seminar (Penn Research in Embedded Computing and Integrated Systems Engineering).
22. Rob Goedemans, Jeffrey Heinz, and Harry van der Hulst. *StressTyp2: A database for the accentual patterns in the world's languages*. Leiden, The Netherlands, August 2014. Workshop on Stress and Accent.
21. Jeffrey Heinz. *Typology, Computation, and Phonology*. Stony Brook University, Stonybrook, NY, May 2014. Linguistics Colloquium Series.
20. Jeffrey Heinz. *StressTyp2: A database for the accentual patterns in the world's languages*. National Institute for Japanese Language and Linguistics, Tachikawa, Japan, December 2013. NINJAL international conference on phonetics and phonology (ICPP 3).
19. William Idsardi and Jeffrey Heinz. *Stress, computation, and the Chomsky hierarchy*. MIT, Boston, Massachusetts, September 2013. M@90. Presented by Bill Idsardi.
18. Jeffrey Heinz. *The typology of phonological generalizations: A computational perspective*. Oxford University, Somerville College, Oxford, United Kingdom, August 2013. Meeting on Phonological Typology.
17. Jeffrey Heinz. *The computational nature of phonological generalizations*. Cornell University, Ithaca, New York, March 2013.
16. Jeffrey Heinz. *Culminativity Times Harmony Equals Unbounded Stress*. University of Connecticut, Storrs, CT, December 2011. The second UConn workshop on stress and accent.
15. Jeffrey Heinz. *Patterns of Stress and Rhythm in Words: a Computational Perspective*. University of Connecticut, Storrs, CT, December 2011. Informal talk to the department.
14. Jeffrey Heinz. *Subregular Languages for Robotics*. Hybrid and Networked Systems Lab, Boston University, Boston, MA, March 2011.
13. Jeffrey Heinz. *Three Subregular Classes of Formal Languages for Phonology*. University of Pennsylvania, Philadelphia, PA, January 2011. Linguistics Speaker Series.

12. Jeffrey Heinz. *Phonology is Subregular*. University of Massachusetts, Amherst, MA, October 2010. The 4th meeting of the Northeast Computational Phonology Circle.
11. Darrell Larsen and Jeffrey Heinz. *A Corpus Study and Comparative Analysis of Formal Learning Proposals of Korean Sound-symbolic Vowel Harmony*. Tokyo, Japan, July 2010. Department of Language and Information Sciences, University of Tokyo.
10. Jeffrey Heinz. *Learning the Stress Patterns in the World's Languages*. The National Institute of Japanese Languages and Linguistics, Tokyo, Japan, June 2010. The 321st Regular Meeting of the Phonetic Society of Japan.
9. Jeffrey Heinz. *Phonological Learners and Phonological Patterns*. Cornell University, Ithaca, New York, May 2010. Grammar induction workshop.
8. Jeffrey Heinz. *Why Phonological Learning is Modular*. University of Maryland, College Park, Maryland, May 2010. Cognitive Science Colloquium Series.
7. Jeffrey Heinz. *Theory Neutral Representations of Stress Patterns*. University of Connecticut, Storrs, Connecticut, April 2010. StressTyp workshop.
6. Jeffrey Heinz. *Learning Long Distance Phonotactics*. University of Chicago, Chicago, IL, June 2008. Workshop on Language and Cognitive Science.
5. Jeffrey Heinz. *Inductive Learning of Phonotactic Patterns*. University of Maryland. College Park, MD. Phonology Seminar.
4. Jeffrey Heinz. *Learning Long Distance Phonotactics*. University of Delaware, Newark, DE. Linguistics and Cognitive Science Department Colloquium Series.
3. Jeffrey Heinz. *Learning the Stress Patterns of the World's Languages*. University of California, Los Angeles. Linguistics Department Colloquium Series. Los Angeles, CA.
2. Jeffrey Heinz. *Learning the Stress Patterns of the World's Languages*. University of Delaware, Newark, DE. Linguistics Department Colloquium Series.
1. Jeffrey Heinz. *Learning the Stress Patterns of the World's Languages*. Oakland University. Rochester, MI.

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## OTHER RESEARCH EXPERIENCE

2017–2022	Director, Computational Linguistics Lab at Stony Brook University.
2007–2015	Director, Phonology and Phonetics Lab at the University of Delaware.
Summer 2005	Conducted fieldwork on Kwara'ae (Austronesian) in Arabala, on the island of Malaita in the Solomon Islands.
2004–2005	Conducted fieldwork on Kiche (Mayan) with a native speaker as part of the 2004–2005 UCLA Field methods class, taught by Pamela Munro.
2003–2006	Aided the development of databases for Professor Russell Schuh for the Yobe Language Project.
2002–2007	Conducting fieldwork on Kwara'ae (Austronesian) with a native speaker.

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## TEACHING

2017–	INSTRUCTOR, STONY BROOK UNIVERSITY
	- Computational Linguistics 2. Spring 2019, Spring 2021, Spring 2022, Spring 2023.

- Computational Morphology. Fall 2018.
- Computational Phonology. Spring 2020.
- Learnability. Fall 2017, Fall 2022.
- Learnability Part 2. Spring 2018.
- Phonology (undergrad). Spring 2019, Fall 2020, Fall 2021, Fall 2022.
- Phonology 2 (grad). Spring 2021, Spring 2023.
- Statistics for Linguists. Fall 2020, Spring 2021, Spring 2022.
- Graduate Seminar: Representations in Phonology. Fall 2021.

2007-2017 INSTRUCTOR, UNIVERSITY OF DELAWARE

- Acoustic Phonetics (Ling 433/633). Spring 2013, Spring 2012, Spring 2011, Spring 2009.
- Computational Linguistics (Ling 467/667, Ling 455/655) Spring 2012, Spring 2014, Spring 2017
- Introduction to Phonology (Ling 403/603) Fall 2013.
- Science of Language (Ling 202) Spring 2016.
- Graduate Phonology I (Ling 607). Fall 2014, Fall 2013, Fall 2012, Fall 2011, Fall 2008, Fall 2007.
- Graduate Phonology II (Ling 608). Spring 2017, Spring 2016, Spring 2015, Spring 2011, Spring 2008.
- Graduate Seminar: Formal Learning Theory (Ling 899). Fall 2015, Fall 2007.
- Graduate Seminar: Explanations of Typology in Phonology (Ling 861). Spring 2009, Spring 2014.
- Graduate Seminar: Likelihood and Well-formedness in Phonology (Ling 861). Fall 2009.
- Graduate Seminar: Formal Models for Phonology (Ling 861). Spring 2015, Fall 2010.
- Graduate Seminar: Harmony and Abstractness in Phonology (Ling 861). Fall 2014.
- Graduate Seminar: Advanced Topics in Phonology (Ling 861). Fall 2012.
- Mathematical Structures in Language (Ling 467/667). Fall 2015, Fall 2010, Fall 2008.

2003-2006 TEACHING ASSISTANT, UCLA LINGUISTICS DEPARTMENT.

- Graduate Phonology I (Ling 200A). Professor Kie Zuraw. Fall 2005.
- Introduction to Language (Ling 1). Professor Philippe Schlenker. Spring 2003.
- Introduction to Linguistics (Ling 20). Professor Felicia Lee. Winter 2006.
- Introduction to Mathematical Linguistics (Ling C208). Professor Edward Keenan. Spring and Fall 2005.
- Teaching Assistant Technical Practicum. Instructor. Spring 2004.

2000-2001 English Teacher. English Plus. Yamanshi-ken, Japan.

1997-1999 Mathematics Teacher (Peace Corps Volunteer). Choiseul Bay Secondary School, Choiseul Province. Solomon Islands.

1997 Substitute Teacher. Howard County Public School System, Maryland, USA.

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TUTORIALS AND COURSES

2020-2023	Summer Youth Camp in Computational Linguistics. Stony Brook University.
2019	Computational Phonology. The Linguistic Society of America (LSA) Summer Institute. Davis, CA. July 2019.
2015	Computational Phonology. The Linguistic Society of America (LSA) Summer Institute. Chicago, USA. July 2015. With Jason Riggle (University of Chicago).
2014	Model-theoretic Phonology. European Summer School in Logic, Language and Information (ESSLLI). Tübingen, Germany. August 2014. With James Rogers (Earlham College).
2011	Formal and Empirical Grammatical Inference. Association for Computational Linguistics-Human Language Technologies (ACL-HLT). June 2011. With Colin de la Higuera (CNRS) and Menno van Zaanen (Tilburg University).

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## ADVISING

## PHD DISSERTATIONS, ADVISER

10. (2024) Scott Nelson, Linguistics, SBU
9. (2024) Kalina Kostyszyn, Linguistics, SBU
8. (2022) Dakota Lambert, Linguistics, SBU
7. (2021) Jonathan Rawski, Linguistics, SBU
6. (2019) Kristina Strother-Garcia, Linguistics, UD
5. (2018) Hyun Jin Hwangbo, Linguistics, UD
4. (2016) Adam Jardine, Linguistics, UD
3. (2015) Timothy O'Neill, Linguistics, UD
2. (2014) Jane Chandlee, Linguistics, UD
1. (2012) Regine Yeeking Lai, Linguistics, UD

## PHD DISSERTATIONS, CO-ADVISER

4. (2020) Hossep Dolatian, Linguistics, SBU (w/ Christina Bethin)
3. (2019) Enes Avcu, Linguistics, UD (w/ Arild Hestvik)
2. (2017) Amanda Payne, Linguistics, UD (w/ Benjamin Bruening)
1. (2012) Evan Bradley, Linguistics, UD (w/ Irene Vogel)

## PHD DISSERTATIONS, COMMITTEE MEMBER

25. (2025) Kenneth Hanson, Linguistics, SBU
24. (2023) Andrija Petrovic, Linguistics, SBU
23. (2022) Yang Liu, Linguistics, SBU
22. (2022) Ashkan Zehfroosh, Mechanical Engineering, UD
21. (2022) Alex Yeung, Linguistics, SBU
20. (2022) Nazila Shafiei, Linguistics, SBU
19. (2022) Nate Koser, Linguistics, Rutgers
18. (2021) Sophie Moradi, Linguistics, SBU
17. (2020) Alëna Aksënova, Linguistics, SBU
16. (2019) Mai Ha Vu, Linguistics, UD
15. (2019) Jun S. Kang, Computer Science, SBU
14. (2019) Tiantian Gao, Computer Science, SBU

13. (2019) Enes Avcu, Linguistics, UD
12. (2018) Salman Mahmood, Computer Science, SBU
11. (2017) Taylor Miller, Linguistics, UD
10. (2016) Angeliki Athanasopoulou, Linguistics, UD
9. (2016) Nadya Pincus, Linguistics, UD
8. (2015) Kostas Karydis, Mechanical Engineering, UD
7. (2014) Jeremy Keffer, Computer and Information Sciences, UD
6. (2014) Darrell Larsen, Linguistics, UD
5. (2013) Jie Fu, Mechanical Engineering, UD
4. (2012) Jason Lilley, Linguistics, UD
3. (2010) Timothy McKinnon, Linguistics, UD
2. (2010) Laura Spinu, Linguistics, UD
1. (2009) Karthik Durvasula, Linguistics, UD

## MASTERS THESIS, COMMITTEE MEMBER

1. (2011) Chetan Rawal, Mechanical Engineering, UD

## QUALIFYING PAPERS, ADVISER

20. (2025) Elizabeth Garza, SBU
19. (2025) M Love, SBU
18. (2024) Magda Markowska, SBU
17. (2024) Jack Wang, SBU
16. (2023) Logan Swanson, SBU
15. (2023) Sarah Payne, SBU
14. (2021) Scott Nelson, SBU
13. (2021) Kalina Kostysyzn, SBU
12. (2020) Dakotah Lambert, SBU
11. (2018) Jon Rawski, Linguistics, SBU
10. (2017) Enes Avcu, Linguistics, UD
9. (2016) Iman Albadar, Linguistics, UD
8. (2016) Hovsep Dolatian, Linguistics, UD
7. (2015) Hyun Jin Hwangbo, Linguistics, UD
6. (2014) Huan Luo, Linguistics, UD
5. (2013) Adam Jardine, Linguistics, UD
4. (2011) Jane Chandlee, Linguistics, UD
3. (2010) Cesar Koirala, Linguistics, UD
2. (2009) Regine Yeeking Lai, Linguistics, UD
1. (2009) Timothy O'Neill, Linguistics, UD

## QUALIFYING PAPERS, SECOND READER

15. (2025) Sarah Payne, SBU
14. (2024) Logan Swanson, SBU
13. (2023) Salam Khalifa, SBU
12. (2023) Abdullah Alzaaq, SBU
11. (2022) Scott Nelson, SBU
10. (2022) Kenneth Hanson, SBU
9. (2022) Kalina Kostysyzn, SBU
8. (2021) Andrija Petrovic, SBU
7. (2019) Alëna Askenova, Linguistics, SBU
6. (2019) Jon Rawski, Linguistics, SBU
5. (2018) Iman Albadar, Linguistics, UD
4. (2018) Ji Yea Kim, Linguistics, SBU
3. (2016) Enes Avcu, Linguistics, UD
2. (2011) Angeliki Athanasopoulou, Linguistics, UD
1. (2008) Nadya Pincus, Linguistics, UD



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REVIEWING

## EDITORIAL BOARDS

- Language Acquisition: A Journal of Developmental Linguistics (2011-2020)

JOURNALS      Child Development, Cognitive Science, Fundamenta Informaticae, Journal of Language Modelling, Journal of Linguistics, Journal of Machine Learning Research, Language and Linguistics Compass, Linguistic Inquiry, Nature Communications, Phonology, Language, Language and Cognitive Processes, Language and Speech, The Linguistic Review, Topics in Cognitive Science

BOOKS          Cambridge University Press, Oxford University Press, Jones & Bartlett Learning, Routledge

GRANTS        National Science Foundation, European Research Council, Social Sciences and Humanities Research Council of Canada, Israel Science Foundation, Netherlands Organization for Scientific Research (NWO) Council

## CONFERENCE ABSTRACTS

GLOW, GALANA, Northeast Linguistics Society, The Annual Meeting of Phonology, Language Society of America Annual Meeting, Old World Conference in Phonology, Penn Linguistics Society

## CONFERENCE PAPERS

Mathematics of Language (2015, 2017, 2019, 2021, 2025), International Conference on Grammatical Inference (2012, 2014, 2016, 2018, 2021, 2023) International Workshop on Learning, Agents and Formal Languages (2011-2012), Society for Computation in Linguistics (2017-present), Association for Computational Linguistics, Phonology and Morphology area (2012-2013), Association for Computational Linguistics, Workshop on Cognitive Modeling and Computational Linguistics (2011-2014), Association for Computational Linguistics–Human Language Technologies. Phonology/Morphology, Tagging and Chunking, Word Segmentation program (2011), Association for Computational Linguistics, Special Interest Group in Computational Morphology and Phonology (2008, 2010, 2012, 2014, 2016, 2021), Empirical Methods in Natural Language Processing, Phonology, Morphology, Tagging, Chunking, and Word Segmentation program (2009, 2014), European Association for Computational Linguistics, Workshop on Computational Linguistic Aspects of Grammatical Inference (2009), European Association for Computational Linguistics, Phonology, Morphology, Tagging, Chunking and Segmentation program (2008), North American Association for Computational Linguistics, Phonology and Morphology program (2009)

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## EVENTS ORGANIZED

18. Mathematics of Language with Thomas Graf, Larry Moss, and Yang Wang. Stony Brook University, NY. August 16-17, 2025.

17. Session on Computational Models of Learnability and Acquisition of Morphology and Phonology 101st meeting of the LSA with Jane Chandlee and Adam Jardine. January 11, 2025. Philadelphia, PA.
16. Session on Formal Language Theory in Morphology and Phonology at the 100th meeting of the LSA with Scott Nelson and Jon Rawski. January 6, 2024. New York City, NY.
15. Workshop on Model Theoretic Representations in Phonology, with Scott Nelson. September 22-24, 2022. Stony Brook University.
14. The 15th International Conference on Grammatical Inference (ICGI 2020/21, with Jane Chandlee, Rémi Eryaud, Adam Jardine and Menno van Zaanen). August 23-27, 2021. Online.
13. Annual Meeting of Phonology (with Michael Becker and Ellen Broselow). Stony Brook University, Stony Brook, NY. October 2019.
12. ACL 2019 Workshop on Deep Learning and Formal Languages: Building Bridges (with Jason Eisner, Matthias Gallé, Ariadna Quattoni, and Guillaume Rabusseau). Florence, Italy. August 2019.
11. Workshop on Learning and Automata (LearnAut) at the Federated Logic Conference (with Rémi Eryaud, Guillaume Rabusseau, and Matteo Sammartino). Oxford, UK. July 2018.
10. Northeast Computational Phonology Meeting (NECPHON). Stony Brook University, Stony Brook, NY. October 2017.
9. Workshop on Learning and Automata (LearnAut) at the ACM/IEEE Symposium on Logic in Computer Science (LICS 2017) (with Rémi Eryaud and Guillaume Rabusseau). University of Reykjavik, Iceland, June 2017.
8. Northeast Computational Phonology Meeting (NECPHON). University of Delaware, Newark, Delaware. November 2015.
7. Workshop on Stress and Accent (with Rob Goedemans and Harry van der Hulst). August. Leiden University, The Netherlands.
6. Joint Meeting of SIGMORPHON and SIGFSM (with Ozlem Cetinoglu, Andreas Maletti, and Jason Riggle). Co-located with the ACL. June. Baltimore, Maryland, USA.
5. UD Workshop on Stress and Accent (with Harry van der Hulst). November 29 – December 1, 2012. University of Delaware.
4. The 11th International Conference on Grammatical Inference (ICGI 2012, with Colin de la Higuera and Tim Oates). September 5–8. University of Maryland, College Park.
3. The 2nd Conference on Stress and Accent (with Harry van der Hulst). University of Connecticut, 2011.
2. ACL-SIGMORPHON (with Lynne Cahill and Richard Wicentowski). University of Uppsala. Uppsala, Sweden. 2010.
1. ACL-SIGMORPHON (with Jason Eisner). Ohio State University. Columbus, OH. 2008.

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#### DEPARTMENT SERVICE

2023 Search Committee Chair, Visiting Assistant Professor of Phonology.  
 2017-2022 Director, Stony Brook Computational Linguistics Lab.  
 2018-2019 Undergraduate Curriculum Committee, Member.  
 2018 Department Strategic Plan Committee, Member.  
 2015 Search Committee, member, Psycho/Neuro-Linguistics Search, Linguistics and Cognitive Science Department, University of Delaware.

2013-2014 Search Committee Chair, Phonetics Search, Linguistics and Cognitive Science Department, University of Delaware.

2013-2017 Undergraduate Student Committee, Linguistics and Cognitive Science Department, University of Delaware.

2012-2013 Interim Graduate Program Director, Linguistics and Cognitive Science Department, University of Delaware.

2007-2017 Graduate Student Committee, Linguistics and Cognitive Science Department, University of Delaware.

2007-2010 Colloquium Committee, Linguistics and Cognitive Science Department, University of Delaware.

#### SERVICE AT THE STONY BROOK UNIVERSITY

2022 Search Committee, Chair of Sociology.

2018-2019 Search Committee, IACS Endowed Chair.

2020- Summer Youth Camp in Computational Linguistics organizer.

2019- UUP (Union of University Professors) Academic Delegate.

2020-2021 UUP (Union of University Professors) Vice President of Academics.

2019-2020 UUP (Union of University Professors) Secretary.

2019 Shared Vision for College of Arts and Sciences, Working Group member.

2018- NACLO organizer.

2018 Research Computing Task Force, member.

#### SERVICE AT THE UNIVERSITY OF DELAWARE

2015-2016 Faculty Committee on Diversity and Inclusion, member.

2012, 2014-2016 Faculty Senate, senator.

2011-2012 College of Arts and Science Senate, senator.

2009-2011 Research Computing Task Force, member.

#### OTHER PROFESSIONAL SCHOLARLY SERVICE

2019- Co-organizer, Long Island NACLO awards (with Dr. Valerie Wilcox)

2017- Member, LSA Committee on AP Linguistics.

2012- Member, steering committee, International Conference of Grammatical Inference.

2008-2016 Member, executive committee, SIGMORPHON (Special Interest Group in Computational Morphology and Phonology)

2005 Editor (with Dimitris Nteli-theos) of UCLA Working Papers in Linguistics, no. 12, the Proceedings of the Twelfth Annual Conference of the Austronesian Formal Linguistics Association (AFLA).

2005 Editor (with Andy Martin & Katya Pertsova) of UCLA Working Papers in Linguistics, no. 11, Papers in Phonology 6.

2005	Member, organizing committee, The Twelfth Austronesian Formal Linguistic Association (AFLA 12).
2004-2007	UCLA Working Papers Committee.
2004	Member, organizing committee, The Third North American Summer School in Logic, Language and Information (NASSLI 3).

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## HONORS

2008, 2014	Nominated for University of Delaware's Excellence in Teaching Award
2008	Nominated for University of Delaware's Excellence in Undergraduate Academic Advising Award
2006-2007	UCLA Dissertation Year Fellowship
2004-2005	UCLA Research Mentorship Fellowship (mentor: Kie Zuraw)
2004	UCLA Summer Research Mentorship Fellowship (mentor: Kie Zuraw)
2003	NSF Graduate Research Fellowship Honorable Mention
1996	Phi Beta Kappa

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## OTHER EXPERIENCE

2001-2002	Student Affairs Officer I (Counselor/Administrative Assistant). Departments of Music and Ethnomusicology, UCLA.
1997	Communications Director. Nuclear Age Peace Foundation. Santa Barbara, CA.
Summer 1996	Transcontinental bicyclist. Ocean City, Maryland to Tillamook, Oregon. (5400 miles)

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## LANGUAGES

English (native), Solomon Island Tok Pisin (fluent), Japanese (intermediate)