

Jason Riggle

Curriculum Vitae

CONTACT Department of Linguistics *Phone: (773) 702-8528*
INFORMATION The University of Chicago *Lab Phone: (773) 702-2876*
1010 E. 59th St. *E-mail: jriddle@uchicago.edu*
Chicago, IL 60637 USA *Web: hum.uchicago.edu/~jriddle*

RESEARCH Phonology & Morphology
INTERESTS Optimality Theory and other constraint-based grammar formalisms
Computational implementation and modeling of linguistic theories
Application of Learnability Theory to linguistic models
Models of language evolution and linguistic typology

ACADEMIC **The University of Chicago**
POSITIONS 2007 – present: Fellow, Computation Institute
2005 – present: Assistant Professor, Linguistics
2004 – 2005: Visiting Assistant Professor, Linguistics

EDUCATION **The University of California Los Angeles**
PhD Linguistics 2004
Thesis: Generation, Recognition, and Learning in Finite-State Optimality Theory
Committee Chair: Edward Stabler
Committee Members: Charles Taylor, Colin Wilson, Kie Zuraw

The University of California Santa Cruz
M.A. Linguistics 1999
Thesis: Relational Markedness in Bantu Vowel Harmony
Committee Chair: Armin Mester
Committee Members: Junko Itô, Jaye Padgett

BA. Linguistics and Psychology, Honors in Linguistics 1997

Books

to appear Jason Riggle. Computing Optimality. Oxford University Press.
to appear Co-editor with John Goldsmith and Alan Yu: New Handbook of Phonology, Blackwell.

Books Chapters

to appear Reduplication – chapter in The New Handbook of Phonology (with Alan Yu). Blackwell.
to appear Learnability Theory in Phonology (with Jeff Heinz). Companion to Phonology. Blackwell.

Articles (published and to appear)

- [1] *to appear* Jeffery Heinz, Greg Kobele, and Jason Riggle. Evaluating the Complexity of Optimality Theory. *Linguistic Inquiry*.
- [2] *to appear* Jason Riggle. The complexity of hypotheses in Optimality Theory. *Computational Linguistics*.
- [3] 2006 Jason Riggle. Infixing Reduplication in Pima and its Theoretical Consequences. *Natural Language & Linguistic Theory* 24(3): 857–891.

Articles (under review)

- [4] *under review* Jason Riggle. Violation Semirings in Optimality Theory. (Research on Language and Computation.)
- [5] *under review* Jason Riggle. Counting Rankings. (Phonology.)
- [6] *under review* John Goldsmith and Jason Riggle. Information theoretic approaches to phonological structure: the case of Finnish vowel harmony. (Natural Language & Linguistic Theory.)

Articles (in preparation)

- [7] *in preparation* Jason Riggle. Regular Optimality. (Computational Linguistics.)
- [8] *in preparation* Jason Riggle. Lean Optimization. (Phonology.)
- [9] *in preparation* Jeff Heinz, Greg Kobele, and Jason Riggle. Exploring the typology of quantity-insensitive stress systems without gradient constraints. (Natural Language & Linguistic Theory.)
- [10] *in preparation* John Sylak, Jason Riggle, James Kirby, and Max Bane. Agent Based models of multilingual learning. (Language.)

Refereed Conference Proceedings

- [11] 2008 Maximilian Bane and Jason Riggle. Three Correlates of Typological Frequency. In the proceedings of the 2008 The ACL Special Interest Group on Computational Morphology and Phonology.
- [12] 2006 Jason Riggle. Using Entropy to Learn OT Grammars from Surface Forms Alone. In the proceedings of the 25th annual West Coast Conference on Formal Linguistics.
- [13] 2004 Jason Riggle and Colin Wilson. Local Optionality. In the proceedings of the 35th annual meeting of the North Eastern Linguistic Society.
- [14] 2004 Jason Riggle. Contenders and Learning. In the proceedings of the 23rd annual meeting of the West Coast Conference on Formal Linguistics. ROA: 688-0904.
- [15] 2004 Pamela Munro and Jason Riggle. Productivity and Lexicalization in Pima Compounds. In the proceedings of the 30th annual meeting of the Berkeley Linguistics Society.

- [16] 2004 Gregory M. Kobele, Jason Riggle, Richard Brooks, David Friedlander, Charles Taylor, and Edward P. Stabler. Induction of Prototypes in a Robotic Setting Using Local Search MDL. In “Proceedings of the 9th International Symposium on Artificial Life and Robotics.”
- [17] 2003 Jason Riggle. Nonlocal Reduplication. In the proceedings of the 34th annual meeting of the North Eastern Linguistic Society. ROA: 693-1104.
- [18] 2003 Edward Stabler, Travis Collier, Gregory M. Kobele, Yoosook Lee, Ying Lin, Jason Riggle, Yuan Yao, and Charles E. Taylor. The learning and emergence of mildly context sensitive languages. In the proceedings of the European Conference of Artificial Life.
- [19] 2003 Gregory M. Kobele, Jason Riggle, Travis Collier, Yoosook Lee, Ying Lin, Yuan Yao, Charles Taylor, and Edward P. Stabler. Grounding As Learning. In the proceedings of the Workshop on Language Evolution, ESSLLI ‘03.
- [20] 2003 Yoosook Lee, Jason Riggle, Travis Collier, Edward Stabler, and Charles E. Taylor. Adaptive Communication among Collaborative Agents: Preliminary Result in Symbol Grounding. In “Proceedings of the Eighth International Symposium on Artificial Life and Robotics,” ed. by Masanori Sugisaka and Hiroshi Tanaka.

Working Papers

- [21] 2007 The Chicago Language Modeling Lab (Jason Riggle, Max Bane, Edward King, James Kirby, Heather Rivers, Evelyn Rosas, and John Sy-lak): Introducing ERCulator. University of Massachusetts Occasional Papers in Optimality vol. 36. ed. by Michael Becker.
- [22] 1999 Jason Riggle. Relational Markedness in Bantu Vowel Harmony. Phonology at Santa Cruz, vol. 6, ed. by Adam Ussishkin, Nathan Sanders, and Dylan Herrick.

Awards, Honors, Fellowships, & Grants

- [23] 2008 Co-PI on “Acquisition of PADS A Petascale Active Data Store” in the 2008 NSF Major Research Instrumentation Program. (Project funding ~\$1.6m)
- [24] 2008 Principal Investigator, Provost’s Program for Academic Technology Innovation 2008. Proposal: “Tools for Distributed Collaborative Linguistic Research” (Project funding \$40k)
- [25] 2007 Joint Theory Institute Grant for collaborative research. With John Christiansen at Argonne National Laboratory (Project funding \$80k)
- 2006 Dean’s Grant for setting up the Chicago Language Modeling Lab (\$30k)
- 2003-2004 Dissertation Year Fellowship, UCLA
- 1999-2000 Linguistics Department Fellowship, UCLA
- 1997-1999 Regents Fellowship, Department of Linguistics, UCSC

Invited Talks

- (2009) Colloquium, University of Delaware Department of Linguistics (February 2009)
- (2008) “Reconstructing Babel: What computational simulations can tell us about how and why language is constantly changing ” – Invited talk: Humanities Day, University of Chicago. (October 2008)
- (2008) Colloquium, Massachusetts Institute of Technology Department of Linguistics and Philosophy (September 2008)
- 2008 “Counting Rankings” – Invited Speaker, The Association for Computational Linguistics Special Interest Group on Computational Morphology and Phonology, June 19, 2008.
- 2007 “Simulating Language Evolution” – Invited talk at the Computation Institute. University of Chicago, April 12, 2007.
- 2006 “Lexical entropy, finite state optimality, and learning from surface forms alone” – Colloquium, Rutgers University Department of Linguistics, March 2, 2006.
- 2006 “Probably Approximately Correct Learning of Phonological Grammars in OT” – Invited talk, Rutgers Optimality Reading Group, March 2, 2006.
- 2006 “On Computational Simulation as a Tool for Understanding Language Learning and Change” – Wednesday Luncheon series at the Franke Institute for the Humanities at the University of Chicago, February 16, 2006.
- 2006 “Using Information Theory to Learn Phonological Grammars” – Colloquium, University of Massachusetts Amherst Dept. of Linguistics, February 10, 2006.
- 2006 “Computational Learnability and OT Grammars” – Invited talk in the Phonetics and Phonology Reading Group, University of Massachusetts Amherst, February 9, 2006.
- 2006 “Using information theory to chose among OT grammars when learning from surface forms” – Invited panelist in the symposium on Information Theory in Phonology, Linguistic Society of America Annual Meeting. Albuquerque, NM. January 6, 2006.
- 2005 “Evolutionary consequences of learning OT grammars from surface forms alone” – Colloquium, Northwestern University Department of Linguistics, November 20, 2005.

Conference Presentations

- 2008 Three Correlates of Typological Frequency. (With Maximilian Bane). The Association for Computational Linguistics Special Interest Group on Computational Morphology and Phonology. Columbus, OH. June 19, 2008.
- 2008 Counting Rankings. Linguistic Society of America Annual Meeting. Chicago, IL. January 5, 2008.

- 2008 Distinguishing Grammars in Multilingual Learning Using Parameter Co-occurrence. (With Maximilian Bane, James Kirby, and John Sylak). Linguistic Society of America Annual Meeting. Chicago, IL. January 5, 2008.
- 2007 Efficiently Computing OT Typologies. (With Maximilian Bane, James Kirby, and Jeremy O'Brien). Linguistic Society of America Annual Meeting. Anaheim, CA. January 5, 2007.
- 2006 Using Entropy to Learn OT Grammars from Surface Forms Alone. West Coast Conference on Formal Linguistics. Seattle, WA. April 24, 2006.
- 2005 Avoiding the ambiguity trap with conjecture-free learning. Chicago Linguistics Society Annual Meeting. Chicago. IL. April 8, 2005.
- 2005 Modeling Simultaneous learning of multiple phonological grammars. Linguistic Society of America Annual Meeting. Oakland, CA. January 8, 2005.
- 2004 Local Optionality. (Poster, with Colin Wilson.) North Eastern Linguistic Society Annual Meeting. Storrs, CT. October 23, 2004.
- 2004 Contenders and Learning. West Coast Conference on Formal Linguistics. Davis, CA. April 24, 2004.
- 2004 Productivity and Lexicalization in Pima Compounds. (With Pamela Munro.) Berkeley Linguistics Society. Berkeley, CA. February 13, 2004.
- 2004 Generation, recognition, and ranking with compiled OT grammars. Linguistic Society of America Annual Meeting. Boston, MA. January 10, 2004.
- 2004 One morpheme, two reduplicants: pseudo-compounds in Pima. (With Pamela Munro.) Linguistic Society of America Annual Meeting. Boston, MA. January 10, 2004.
- 2003 Nonlocal Reduplication. USC Phonology Workshop: "Where are We Going? Phonology at the Edge." Los Angeles, CA November 14, 2003.
- 2003 Nonlocal Reduplication. (Poster.) NELS Annual Meeting. Stony Brook, NY. November 7, 2003.
- 2003 Grounding as Learning. (With Gregory Kobele.) European Summer School on Logic, Language and Information. Vienna, Austria. August 28, 2003.
- 2003 The learning and emergence of mildly context sensitive languages. (With Gregory Kobele.) European Conference on Artificial Life. Dortmund, Germany. September 16, 2003.
- 2003 Infixation in Pima Reduplication and Its Theoretical Consequences. Linguistic Society of America Annual Meeting. Atlanta, GA. January 5, 2003.
- 2003 Infixing Reduplication in Pima. Texas Linguistics Society. Austin, TX. March 2, 2003.
- 2002 Emergent Phonotactics in Pima Reduplication. Workshop on American Indigenous Languages. Santa Barbara, CA. April 28, 2002.

2002 Phonotactic Conditioning of Reduplication in Pima. Southwest Optimality Theory Workshop. Los Angeles, CA. April 22, 2002.

1999 Relational Markedness in Bantu Vowel Height Harmony. Annual Conference on African Linguistics. Boston, MA. March 23, 1999.

Software

2007 ERCULATOR: Online software for doing constraint-based phonological analysis. www.erculator.com

2007 Constraint Wiki: An online database for computational implementations of phonological constraints. www.clml.uchicago.edu

2007 BaseLing: An online database for phonological data with emphasis on pedagogy. <http://clml.uchicago.edu/baseling>

2007 CiteLing: An online database for linguistics bibliographic information in BibTex format. <http://www.citeling.com>

Service

2008–present Director of Undergraduate Studies
University of Chicago Department of Linguistics

2008-2009 Organizer, Workshop on Language, Cognition, and Computation
<http://cas.uchicago.edu/workshops/language>

2007–present Assistant Editor for Linguistic Inquiry

2007-2008 Organizer, Workshop on Language and Cognition
<http://cas.uchicago.edu/workshops/language>

2006–present Colloquium organizer, University of Chicago

2006–present Director of Chicago Language Modeling Lab
<http://www.clml.uchicago.edu>

2004 Teaching Evaluation Committee, UCLA Linguistics

Teaching

(Spring 2009) Department of Linguistics, University of Chicago
(with John Goldsmith) Seminar: Constructing Phonology Problems

(Winter 2009) Department of Linguistics, University of Chicago
Linguistics Core
Phonology I

(Fall 2008) Department of Linguistics, University of Chicago
Phonetics
(with John Goldsmith) Information Theoretic approaches to Phonology

Summer 2008 Department of Linguistics, University of Chicago
Professionalization Seminar

Spring 2008	Department of Linguistics, University of Chicago Phonology II
Winter 2008	Department of Linguistics, University of Chicago Programming for Linguists Phonology I
Spring 2007	Department of Linguistics, University of Chicago Seminar on Reduplication (co-taught with Alan Yu)
Winter 2007	Department of Linguistics, University of Chicago Introduction to Linguistics
Fall 2006	Department of Linguistics, University of Chicago Seminar on Computational Linguistics: Learnability Theory Phonetics
Spring 2006	Department of Linguistics, University of Chicago Phonology II Social Sciences Core Sequence: Mind
Fall 2005	Department of Linguistics, University of Chicago Phonetics
Spring 2005	Department of Linguistics, University of Chicago Seminar on Computational Linguistics: Language Modeling
Winter 2005	Department of Linguistics, University of Chicago Social Sciences Core Sequence: Mind
Fall 2004	Department of Linguistics, University of Chicago Seminar on Computational Phonology
Winter 2002	Department of Linguistics, UCLA Graduate Workshop on Learnability Theory
Spring 2002	Department of Linguistics, UCLA Graduate Workshop on Learnability Theory
Fall 2001	Department of Linguistics, UCLA Ling 20, Introduction to Theoretical Linguistics

Fieldwork and Laboratory Research

2002-2003	Research Assistant for Professor Charles Taylor, Dept. of Organismic Biology, UCLA, and Professor Edward Stabler, Dept. of Linguistics, UCLA. Research in learning and evolution of artificial languages.
2001-2002	Field research on Pima (Uto-Aztecan) with consultant Virgil Lewis under the direction of Professor Pamela Munro.
2001	Summer Research Mentorship with Professor Edward Stabler Department of Linguistics, UCLA Research on computational models of phonology.

Advising

Ph.D Students

in progress Gregory Davidson, ‘Modeling static and dynamic vocal fold asymmetries.’

Qualifying Papers/Masters Theses

- 2008 Max Bane, ‘Modeling the Typology of Quantity-Insensitive Stress Systems.’ (chair)
- 2008 Adam Baker, ‘Two Bayesian Approaches to Finding Vowel Harmony.’
- 2008 Eleni Staraki, ‘Turkish loanwords in Modern Greek: A psycholinguistic approach.’
- 2008 Patrick Midtlyng, ‘Hiatus resolution in Washo.’
- 2008 James Kirby, ‘Lexical and phonotactic effects on wordlikeness judgments in Cantonese.’

MA Students

- 2008 Jonathon E. Cihlar, ‘Database development for language documentation: A case study in the Washo language.’
- 2006 Colin Sprague, ‘Creating Morphological Descriptions with Alchemist.’

Undergraduate Students (Honors Thesis Supervisor)

- 2008 Eric Bjerstedt, ‘The Dominance of the Unmarked in Prosodic Reduplication.’
- 2006 Clara Raubertas, ‘Gradual Learning From Surface Forms.’

Research and Teaching Philosophy

- [26] A statement of my research goals and philosophy as well as the long-term plans of the Chicago Language Modeling Lab can be found here:
hum.uchicago.edu/~jriggle/researchStatement.pdf
- [27] A statement of my teaching philosophy can be found here:
hum.uchicago.edu/~jriggle/teachingStatement.pdf

Last updated: July 2, 2008