

CURRICULUM VITAE

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Education

Stanford University, Ph.D., Linguistics, August, 1994.

Dissertation: Syntactic Innovation: A Connectionist Model.

Committee: Elizabeth Traugott (Chair), Paul Kiparsky, David Rumelhart,
Thomas Wasow.

Middlebury College, B.A., Mathematics 1984.

Research Interests

Flexibility in structured systems, language processing, language learning,
language change, formal syntax, neural network (connectionist) theory,
dynamical systems theory, theory of computation.

Employment

Fall 98 - Assistant Professor, Department of Psychology,
Present University of Connecticut

Fall 97 - Postdoctoral Fellow, Psychology Department, Cornell University.
Summer 98 Advisor: Michael Spivey-Knowlton.
Learning complex grammars.

Fall 96 - Postdoctoral Fellow, Mind Articulation Project, MIT.
Summer Advisor: Edward Gibson.
Neurally plausible models of syntax.

Fall 94 - Postdoctoral Fellow, Center for the Sciences of Language (CSL), U. of Rochester
Summer 96 Advisors: Robert Jacobs, Elissa Newport, Michael Tanenhaus.
Dynamical systems analysis of neural networks.

Research Assistantships

- Summer 92 Stanford Linguistics Bantu Project.
 Advisors: Joan Bresnan, Andrew Garrett, and Sam Mchombo.
 History/Typology of auxiliary coalescence in 5 Bantu languages.
- Summer 90 Center for the Study of Language and Information (CSLI).
90-91 Advisors: Joan Bresnan and Sam Mchombo.
 Auxiliary coalescence in Chichewa.
- Summer 89 Center for the Study of Language and Information (CSLI).
 Advisors: David Rumelhart and Ivan Sag.
 Neural network model of English ditransitives.

Fellowships

- Summer 96 Complex Systems Summer School,
 Santa Fe Institute, Santa Fe, New Mexico.
- Summer 93 Summer Workshop on Formal Modeling in Social Theory,
 Stanford University.
- 88-89, 89-90, 91-92 University Fellow, Stanford University.
- Summer 91 Linguistic Society of America Summer Institute,
 University of California at Santa Cruz.
- Summer 90 Annual Connectionist Models Summer School,
 University of California at San Diego.
- Summer 89 Linguistic Society of America Summer Institute,
 University of Arizona at Tucson.

Teaching Experience

- Spring 99 Cognitive Psychology, Psychology Department, University of Connecticut
- Fall 98 Sentence Processing, Psychology Department, University of Connecticut
- Winter 93 Teaching Assistant, Linguistics Department, Stanford
 Introduction to Linguistics. Instructors: Joan Bresnan, William Poser.
- Winter 92 Teaching Assistant, Linguistics Department, Stanford.
 Introduction to Semantics. Instructor: Alessandro Zucchi.
- Fall 92 Teaching Assistant, Linguistics Department, Stanford.
 Introduction to Sociolinguistics. Instructor: John Rickford.
- Fall 91 Teaching Assistant, Linguistics Department, Stanford.
 Introduction to Syntax. Instructor: Peter Sells.
- Fall 84 -
Spring 86 High School Teacher, The White Mountain School, Littleton, New Hampshire.
 Courses: Calculus, Physics, Computer Programming, Rock Climbing.

Submitted Papers

Tabor, W. (submitted) 'Fractal encoding of context-free grammars in connectionist networks.' Submitted to *Expert Systems: The International Journal of Knowledge Engineering and Neural Networks*.

Tabor, W. and Tanenhaus, M. K. (submitted) 'Dynamical systems for sentence processing.' In M. Christiansen and N. Chater, *Connectionist Psycholinguistics*. Norwood, N.J: Ablex.

Publications

Tabor, W. and Tanenhaus, M. K. (in press) 'Dynamical models of sentence processing'. *Cognitive Science*.

Tabor, W. (1998). *Dynamical Automata*. Technical Report No. TR98-1694, Cornell Computer Science Department. Available at <http://cs-tr.cs.cornell.edu>.

Tabor, W. and Traugott, E. C. (1998). 'Structural scope expansion and grammaticalization'. In Anna Giacolone Ramat and Paul Hopper, eds., *The Limits of Grammaticalization*. Amsterdam: John Benjamins, pp. 227-270.

Tabor, W., Juliano, C. and Tanenhaus, M. K. (1997). 'Parsing in a dynamical system: An attractor-based account of the interaction of lexical and structural constraints in sentence processing.' *Language and Cognitive Processes*, v. 12, no. 2/3, pp. 211--271.

Tabor, W. (1997). Review of *The Human Semantic Potential: Spatial Language and Constrained Connectionism* by Terry Regier (MIT Press, 1996). *Computational Linguistics*. Vol. 23, Issue 4.

Tabor, W., Juliano, C., and Tanenhaus, M. K. (1996). 'A dynamical system for language processing'. In *Proceedings of the 18th Annual Cognitive Science Conference*.

Tabor, W. (1995). 'Lexical change as nonlinear interpolation'. In *Proceedings of the 17th Annual Cognitive Science Conference*, J. D. Moore and J. F. Lehman, eds. Mahwah, New Jersey: Lawrence Erlbaum Associates.

Tabor, W. (1994). 'The development of degree modifier sort of and kind of: a corpus proximity model'. In *Proceedings of the 29th Annual Meeting of the Chicago Linguistics Society*, K. Beals, G. Cooke, D. Kathman, K. McCullough, S. Kita, and D. Testen, eds. Chicago: University of Chicago Press.

Tabor, W. (1993). 'Auxiliary coalescence in Chichewa: mismatch not required'. In *Proceedings of the Eleventh West Coast Conference on Formal Linguistics*, Jonathan Mead, ed. Stanford: CSLI.

Conference Presentations

Tabor, W. (1999) 'Dynamical Models of Language'. Presentation at the University of Connecticut Conference on Cognitive Science, Storrs, CT.

Tabor, W. (1999) 'Grammar and memory in connectionist networks'. Paper presented at the Annual Meeting of the Eastern Psychological Association (EPA), Providence, RI.

Tabor, W. and Richardson, D. (1999). 'Ungrammatical influences in sentence processing'. Poster presented at the 12th Annual CUNY Sentence Processing Conference, New York, NY.

Tabor, W. (1999) 'Connecting the symbolic and subsymbolic: analysis of memory load effects in a neural network architecture'. Poster presented at the 12th Annual CUNY Sentence Processing Conference, New York, NY.

Tabor, W. (1998). 'Context Free Grammar Representation in Neural Networks'. Paper presented at the Neural Information Processing Systems (NIPS) workshop on Hybrid Neural Symbolic Systems. Breckenridge, Colorado.

Tabor, W. (1998). 'Semantic versus Syntactic Anomaly in a Dynamical System'. Presentation at the 11th Annual CUNY Conference on Human Sentence Processing, New Brunswick, New Jersey.

Tabor, W. (1997). 'Representation in Neural Network Models of Sentence Processing: Insights from Dynamical Systems Theory'. Presentation at the Neural Information Processing Systems (NIPS) workshops, Breckenridge, Colorado.

Tabor, W. (1997). 'The interaction of syntactic and lexical constraints in sentence processing: A dynamical systems approach'. Presentation at the 10th Annual CUNY Conference on Human Sentence Processing, Santa Monica, California.

Tabor, W. (1996). 'A dynamical system for language processing'. Poster at the 18th Annual Cognitive Science Conference, University of California, San Diego.

Tabor, W. (1995). 'Continuous categories strengthen diachronic theory'. Presentation at the 24th annual conference on New Ways of Analyzing Variation (NWAVE), University of Pennsylvania.

Tabor, W. (1995). 'Lexical change as nonlinear interpolation'. Presentation at the 17th Annual Cognitive Science Conference, University of Pittsburgh.

Tabor, W. and Juliano, C. (1995). 'Frequency contrast and grammatical representation: the case of frequency by regularity interaction'. Poster at the 8th Annual CUNY Conference on Human Sentence Processing, Tucson, Arizona.

Tabor, W. (1994). 'A new way of analyzing function/grammar interaction'. Presentation

at the 23rd annual conference on New Ways of Analyzing Variation (NWAVE), Stanford.

Tabor, W. (1994). 'Reanalysis is analogy'. Presentation at the 68th Annual Meeting of the Linguistic Society of America (LSA), Boston, Massachusetts.

Tabor, W. (1993). 'Syntactic innovation as a "Same Slope" effect'. Presentation at the 22nd annual conference on New Ways of Analyzing Variation (NWAVE), University of Ottawa.

Tabor, W. (1993). 'The gradualness of syntactic change: a corpus proximity model'. Presentation at the XIth International Conference on Historical Linguistics (ICHL), University of California, Los Angeles.

Tabor, W. (1993). 'Rule Frequency and Syntactic Innovation'. Presentation at the 68th Annual Meeting of the Linguistic Society of America (LSA), Boston, Massachusetts.

Tabor, W. (1992). 'Auxiliary coalescence in {Chiche}^{wa}: Mismatch not Required'. Presentation at the Eleventh West Coast Conference on Formal Linguistics (WCCFL), University of California, Los Angeles.

Tabor, W. (1992). 'Reanalysis is early'. Presentation at the 66th Annual Meeting of the Linguistic Society of America (LSA), Philadelphia, Pennsylvania.

Invited Presentations

Tabor, W. (1999) 'Ungrammatical Influences in Sentence Processing.' Department of Psychology, Northeastern University.

Tabor, W. (1999) 'Insight into Context Free Grammar Representation and Processing in Neural Networks.'
Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology.

Tabor, W. (1999) 'Fractal Grammars.' Haskins Laboratories, New Haven, Connecticut.

Tabor, W. (1997). 'Linguistic structure in neural network models of sentence processing'. Linguistics Colloquium, Department of Linguistics, Cornell University.

Tabor, W. (1997). 'Metric relations among analog computers'. Theory Seminar, Department of Computer Science, Cornell University.

Tabor, W. (1995). 'History shows how grammars bend'. Cognitive Science Colloquium, SUNY, Buffalo.

Tabor, W. (1994). 'The gradualness of syntactic change: a corpus proximity model'. Linguistics Colloquium, University of California at Berkeley.

Tabor, W. (1994). 'Using the continuous metrical properties of connectionist representations to model syntactic change'. Center for Research on Language, University of California, San Diego.

References

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