

Curriculum Vitae

Florencia Reali

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Employment:

- Postdoctoral Research Associate, Laboratory of Tom L. Griffiths, Ph.D. Department of Psychology, Institute of Cognitive and Brain Sciences, University of California Berkeley, August 2007-present.

Education:

- Cornell University: PhD Psychology, July 2007
Thesis title: *The role of statistical information in the acquisition and processing of grammatical structure*
- Universidad de la Republica (UdelaR), Montevideo, Uruguay: M.S., Science, July 2002
Thesis title: *Multiplicative interactions in neural network models: Some applications to language processing*
- Universidad de la Republica (UdelaR), Montevideo, Uruguay: Licenciatura (B.Sc.) en Ciencias Biologicas, July, 2000

Research Experience:

- My research combines behavioral experiments and probabilistic models to study various aspects of language learning and processing. The methods that I have used include human experimentation, computational analysis of linguistic corpora and theoretical models implemented in computer simulations

Selected Fellowships and Awards:

- Cognitive Studies Summer Research Fellowship, Cornell University, 2005
- Cognitive Studies Dissertation-Research Fellowship, Cornell University, 2005
- *David Marr Prize*, Best Student Paper, *Annual Meeting of the Cognitive Science Society*, Chicago, 2004
- Sage Doctoral Fellowship, Cornell University, 2002-2006

Publications:

1. Christiansen, M.H., Dale, R., & Reali, F. (in press). Connectionist explorations of multiple-cue integration in syntax acquisition. In S. Johnson (Ed.), NYBUG
2. Reali, F. & Christiansen, M. H. (in press). The relative role of biological and linguistic adaptation in language evolution: A computational approach. To appear in *Interaction Studies*.

3. Reali, F., & Christiansen, M.H. (in press). On the necessity of an interdisciplinary approach to language universals. In C. Collins, M. H. Christiansen and S. Edelman (Eds.), *Language Universals*. Oxford University Press
4. Reali, F. & Christiansen, M.H. (2007). Processing of relative clauses is made easier by frequency of occurrence. *Journal of Memory and Language*, 53, 1-23
5. Reali, F. & Christiansen, M.H. (2007). Word-chunk frequencies affect the processing of pronominal object-relative clauses. *Quarterly Journal of Experimental Psychology*, 60, 161-170.
6. Reali, F. (2007) El rol de las regularidades estadísticas en la adquisición del lenguaje. (Translation: The role of statistical regularities in language acquisition) In E. Kronmüller C. Cornejo (Eds.) *Ciencias de la Mente: Aproximaciones desde Latinoamérica*. JCSaez: Santiago de Chile
7. Reali, F., Spivey, M., Tyler, M., & Terranova, J. (2006). Inefficient conjunction search made efficient by concurrent spoken delivery of target identity. *Perception and Psychophysics*, 68, 959-974.
8. Christiansen, M., Reali, F., & Chater, N. (2006) The Baldwin effect works for functional but not arbitrary features of language (pp. 27-34). In A. Cangelosi, A.D.M. Smith and K. Smith (Eds.) *The Evolution of Language*. Toh Tuck Link Singapore: World Scientific Publishing Co. Pte. Ltd.
9. Reali, F., & Christiansen, M. H. (2005). Uncovering the richness of the stimulus: Structural dependence and indirect statistical evidence. *Cognitive Science*, 29, 1007-1028.
10. Valle-Lisboa, J.C, Reali, F., Anastasa, H., & Mizraji, E. (2005). Elman topology with sigma-pi units: an application to the modeling of verbal hallucinations in schizophrenia, *Neural Networks*, 18 (7), 863-877.
11. Reali, F., Dale, R., & Christiansen, M.H. (2005). Reassessing “colorless green ideas sleep furiously.” In *Proceedings of the 27th Annual Meeting of the Cognitive Science Society* (pp. 1821-1826). Mahwah, NJ: Lawrence Erlbaum.
12. Reali, F. & Christiansen, M.H. (2004). Structure dependence in language acquisition: Uncovering the richness of the stimulus (David Marr Prize, Best Student Paper). In *Proceedings of the 26th Annual Conference of the Cognitive Science Society* (pp. 1131-1136). Mahwah, NJ: Lawrence Erlbaum.
13. Reali, F., Christiansen, M.H. & Monaghan, P. (2003). Phonological and distributional cues in syntax acquisition: Scaling up the connectionist approach to multiple-cue integration. In *Proceedings of the 25th Annual Conference of the Cognitive Science Society* (pp. 970-975). Mahwah, NJ: Lawrence Erlbaum.
14. Mizraji, E., Pomi, A., Reali, F., & Valle-Lisboa, J.C. (2003). Disyunciones dinámicas. (Translation: Dynamic disjunctions) In J.A. Hernandez, & A. Pomi (Eds.). *Procesos biofísicos complejos. Simposio sobre la Complejidad Biológica*, Colonia del Sacramento 2002. Montevideo: DIRAC, Facultad de Ciencias.

Computer Skills:

- Programming in C, Perl and Matlab
- Operating Systems Linux and Windows

Editorial Experience:

I have contributed ad-hoc peer reviews for:

- *Journal of Language Learning and Development*
- *Cognition*
- *Annual Meeting of the Cognitive Science Society*, 2005, 2006, 2007, 2008

Teaching Experience:

Instructor at Cornell University:

1. Introduction to Cognitive Science. I designed and taught a six-week daily introductory course in Cognitive Science. 30 students, Cornell Summer College, Summer 2006.

Invited Guest Lectures:

1. Introduction to Psychology of Language, Cornell University, Syntactic ambiguity, Spring 2005
2. Introduction to Psychology of Language, Cornell University, Models of language acquisition, Spring, 2005

Teaching Assistant at Cornell University:

1. Human Perception (with David Field), Fall 2006
2. Introduction to Psychology of Language (with Morten Christiansen), Spring 2005
3. Psychology and Law (with David Dunning), Fall 2004
4. Modeling Cognitive Processing (with Michael Spivey), Spring 2004
5. Introduction to Cognitive Sciences (with Michael Spivey), Fall 2003