

CURRICULUM VITAE
Jessica S. Horst

CONTACT INFORMATION

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EDUCATION

In progress Ph.D., Developmental Science
University of Iowa, IA
2001 B.A., Philosophy and Psychology, *summa cum laude* with Distinction
Boston University, MA

PROFESSIONAL POSITIONS

| | | |
|-------------|----------------------------------|---|
| 2004– | Graduate Research Assistant | Samuelson Laboratory, University of Iowa |
| Fall 2005 | Graduate Teaching Assistant | Psychology Department, University of Iowa |
| Summer 2004 | Instructor | Psychology Department, University of Iowa |
| 2003-2004 | Graduate Teaching Assistant | Psychology Department, University of Iowa |
| 2001-2003 | Graduate Research Assistant | Samuelson Laboratory, University of Iowa |
| 2001-2003 | Graduate Research Assistant | Oakes Laboratory, University of Iowa |
| 1999-2001 | Undergraduate Research Assistant | Sociology Department, Boston University |
| 1998-2001 | Foreign Languages Tutor | Boston University Resource Center |

HONORS AND AWARDS

National Research Awards:

American Psychological Foundation Elizabeth Munsterberg Koppitz Travel Stipend, 2006
National Science Foundation, Student Travel Award, Summer 2005
Society for Research in Child Development Student Travel Award, Spring 2005
Honorable Mention, National Science Foundation, Graduate Research Fellowship, 2002

University of Iowa Research Awards:

Seashore Dissertation Year Fellowship, 2006-2007
University of Iowa Student Government Research Grant, Spring 2004
Scholarly Presentations Travel Award, 2006, 2005, 2004, Fall 2003, Spring 2003,
Graduate Student Senate Travel Award, 2005, 2004, 2003
Honorable Mention, James F. Jakobsen Graduate Conference, 2006, 2004

Teaching Awards:

University of Iowa Graduate College Student Teaching Award, 2004
Department of Psychology, University of Iowa, Student Teaching Award, 2004

Undergraduate Honors and Awards:

Elected to Phi Beta Kappa, 2001
Student Speaker, Latin Honors Ceremony, Boston University, May 2001
Matchette Prize for Excellence in Philosophy, Boston University, 2001
Nomination for Student Employee of the Year, Boston University, 2000-2001
Elected to Psi Chi National Honor Society in Psychology, 2000
Elected to Golden Key International Honour Society, 1999

PUBLICATIONS

Refereed Journal Articles:

Samuelson, L. K., & Horst, J. S. (in press). Dynamic noun generalization: Moment-to-moment interactions shape children's naming biases. *Infancy*.
Horst, J. S., Oakes, L. M. & Madole, K. L. (2005). What Does It Look Like and What Can It Do? Category Structure Influences How Infants Categorize. *Child Development*, 76, 614-631.

Refereed Conference Proceedings:

Horst, J. S., McMurray, B. & Samuelson L.K. (2006). Online processing is essential for learning: Understanding fast mapping and word learning in a dynamic connectionist architecture. *Proceedings of the Twenty-Eighth Annual Conference of the Cognitive Science Society*. Lawrence Erlbaum & Associates.
Samuelson, L. K., Horst, J. S., Dobbertin, B. N. & Schutte, A. R. (2006). Knowledge, Performance, and Task: Décalage and Dynamics in Young Children's Noun Generalizations. *Proceedings of the Twenty-Eighth Annual Conference of the Cognitive Science Society*. Lawrence Erlbaum & Associates.

Chapters and Other Publications:

- McMurray, B., **Horst, J. S.**, Toscano, J. & Samuelson, L. K. (in press). *Connectionist Learning and Dynamic Processing: Symbiotic Developmental Mechanisms*. In J.P. Spencer, M. Thomas & J. McClelland (Eds.), *Towards a New Grand Theory of Development? Connectionism and Dynamic Systems Theory Reconsidered*: Oxford University Press.
- Oakes, L. M., **Horst, J. S.**, Kovack-Lesh, K. A. & Perone, S. (in press). *How Infants Learn Categories*. In A. Needham and A. Woodward (Eds.), *New Approaches to Infant Learning and Cognition*: Oxford University Press.

Publications under review:

- Horst, J. S.** & Samuelson, L. K. (under revision). *Fast mapping but not fast word learning: Referent selection without retention*. Manuscript submitted for publication.
- Horst, J. S.**, Ellis, A. E., Samuelson, L. K., Trejo, E., Worzalla, S., Peltan, J. & Oakes, L. M. (under revision). *Flexible Categorization in Toddlerhood: Same Objects, Same Session, Two Different Category Contrasts*. Manuscript submitted for publication.
- Kovack-Lesh, K.A., **Horst, J. S.** & Oakes, L.M. (under revision) *The Cat is Out of the Bag: Previous Experience and Online Comparison Jointly Influence Infant Categorization*. Manuscript submitted for publication.
- Samuelson, L. K. & **Horst, J. S.** (under revision). *Developing a bias: The dynamic interaction of knowledge, task, and stimuli in novel noun generalization*. Manuscript submitted as part of a special section of *Developmental Science*.
- Samuelson, L. K. & **Horst, J. S.**, Schutte, A. R. & Dobbertin, B. (under review). *The Dynamic Nature of Knowledge: Insights From a Dynamic Field Model of Children's Novel Noun Generalizations*.

Publications in preparation:

- Horst, J. S.** & Samuelson, L. K. (in prep). *A Solid Grasp of Objects Not Substances: Young Children's Explorations of Solid and Nonsolid Stimuli*.
- Samuelson, L. K. & **Horst, J. S.** (in prep). *On Nonsolid Ground: Vocabulary Statistics and Young Children's Naming of Nonsolid Substances*.

CONFERENCE SYMPOSIA

- Horst, J. S.**, McMurray, B. & Samuelson L.K. (2006, July). *Online processing is essential for learning: Understanding fast mapping and word learning in a dynamic connectionist architecture*. Symposium presented at the 28th Annual Conference of the Cognitive Science Society, Vancouver, Canada.
- Samuelson, L. K., **Horst, J. S.**, Dobbertin, B. N., & Schutte, A. R. (2006, July). *Knowledge, performance and Task: décalage and dynamics in young children's noun generalizations*.

Symposium presented at the 28th Annual Conference of the Cognitive Science Society, Vancouver, Can.

- Oakes, L. M., **Horst, J. S.**, & Kovack, K. A. (2005, May). *How Infants Learn Categories*. In A. Needham and A. Woodward (Organizers) *New Approaches to Infant Learning and Cognition*, Durham, NC.
- Oakes, L. M., **Horst, J. S.**, & Madole, K. L. (2004, May). *Infants' use of appearance and function to form categories*. In T. Wilcox (organizer) *New perspectives on infant categorization*. Symposium conducted at the 2004 biennial meeting of the International Society for Infant Studies, Chicago, IL.
- Samuelson, L. K. & **Horst, J. S.** (2003, April). *Origins of the Notion of Object in the Perceptual Cues to Solidity*. In L. B. Smith (Chair) *What Is An Object?* Symposium conducted at the 2003 Biennial Meeting of the Society for Research in Child Development, Tampa, FL.

PAPERS PRESENTED

- Horst, J. S.** & Samuelson, L. K. (2006, June). *Turning Novel Names Into Known Names: Understanding the Processes of Fast Mapping and Word Learning*. Poster presented at the XVth Biennial International Conference on Infant Studies, Kyoto, Japan.
- Horst, J. S.**, Samuelson, L. K. & McMurray, B. (2005, October). *Real-Time Dynamics of Language Acquisition in Two-Year-Olds and Connectionist Models*. Poster session presented at the Fourth Biennial Meeting of the Cognitive Development Society, San Diego, CA.
- Kovack-Lesh, K. A., **Horst, J. S.** & Oakes, L. M. (2005, October). *Previous Experience Influences Infants' Category Learning in the Laboratory*. Poster session presented at the Fourth Biennial Meeting of the Cognitive Development Society, San Diego, CA.
- Horst, J. S.**, McMurray, B. & Samuelson, L. K. (2005, June). *Connectionist Time and Dynamic Systems Time in One Architecture? Modeling Word Learning at Two Time Scales*. In J. P. Spencer (Organizer) *Connectionist and Dynamic Systems Approaches to Development: On the Cusp of a New Grand Theory or Still Too Distributed?* Iowa City, IA.
- Horst, J. S.** & Samuelson, L. K. (2005, April) *Slow Down: Understanding the Time Course Behind Fast Mapping*. Poster session presented at the 2005 Biennial Meeting of the Society for Research in Child Development, Atlanta, GA.
- Horst, J. S.** & Samuelson, L. K. (2005, April) *Look and Do Touch: Differences in Children's Explorations of Solid Objects and Nonsolid Substances*. Poster session presented at the 2005 Biennial Meeting of the Society for Research in Child Development, Atlanta, GA.
- Samuelson, L. & **Horst, J.** (2004, May) *Are Word Learning Biases Created In The Moment? Task And Stimulus Factors Affect The Shape And Material Biases*. Poster session presented at the XIVth Biennial International Conference on Infant Studies, Chicago, IL.
- Horst, J. S.**, Oakes, L. M. & Madole, K. L. (2003, October). *Looks Aren't Everything: 10-Month-Olds Also Categorize by Function*. Poster session presented at the Third Biennial Meeting of the Cognitive Development Society, Park City, UT.

- Samuelson, L., **Horst, J.**, Schutte A. & Peterson, B. (2003, October). *Vocabulary Development And Word Learning Strategies: A Solid Connection*. Poster session presented at the Third Biennial Meeting of the Cognitive Development Society, Park City, UT.
- Horst, J. S.** & Samuelson, L. K. (2003, April). *Language and Flexible Categorization in Early Childhood*. Poster session presented at the 2003 Biennial Meeting of the Society for Research in Child Development, Tampa, FL.

DEPARTMENTAL PRESENTATIONS

- Connectionist Time and Dynamic Systems Time in One Architecture? Modeling Word Learning in Two Time Scales (2006, September) *Psychology Department Brown Bag Data Blitz*
- Look and Do Touch: Differences in Children's Explorations of Solid Objects and Nonsolid Substances (2005, April) *University of Iowa Language Discussion Group*
- Fake It Until You Make It: Is Fast Mapping Really Word Learning? (2005, February) *Psychology Department Brown Bag Series*
- Is Fast Mapping Really Word Learning? (2005, October) *University of Iowa Language Discussion Group*
- Slow Down: The Time Course Behind Fast Mapping (2005, September) *Psychology Department Brown Bag Data Blitz*
- Learning Words in the Moment and Beyond (2004, November) *University of Iowa Language Discussion Group*
- Form and Function Before Age Two (2003, May) *Psychology Department Brown Bag Series*
- Attention to Form and Function in Toddlers' Categorization of Objects (2003, January) *Psychology Department Eighth Annual Graduate Research Symposium*

SERVICE

University Service

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|-----------|--------------------------|--|
| 2006-2007 | Vice President | Graduate Student Senate |
| 2005-2007 | Co-Founder and Chair | Outstanding Graduate Student As Mentor Award |
| 2005-2006 | Co-Chair | 2006 James F. Jakobsen Graduate Conference |
| 2005-2006 | Executive Associate | Graduate Student Senate |
| 2004-2005 | Humanities Division Head | 2005 James F. Jakobsen Graduate Conference |
| 2004-2005 | Member | Graduate Student Senate |

Departmental Service

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|--------------|-----------------------|---|
| 2003-present | Founder and Organizer | Developmental Lunch Series |
| 2005-2006 | Co-Chair | Graduate Student Recognition Week Committee |
| 2001-2003 | Coordinator | Category Reading Group |

Professional Service

- 2006-2007 Campus Representative Assoc. of Psychological Science Student Caucus
- Reviewer J.P. Spencer & J. Plumert (Eds). *Spatial Cognition* (forthcoming).
- Reviewer J.P. Spencer, M. Thomas & J. McClelland (Eds.) *Toward a New Grand Theory of Development? Connectionism and Dynamic Systems Theory Reconsidered.* (forthcoming).
- Volunteer The 28th Annual Conference of the Cognitive Science Society (2006, July). Vancouver, Canada.
- Volunteer Connectionist and Dynamic Systems Approaches to Development: On the Cusp of a New Grand Theory or Still Too Distributed? (2005, June). Iowa City, IA.

Invited Panels

- Moderator: Networking, Mentoring, Campus Life and Community (2006, October) in M. Gardinier (Dean) *Graduate College Open House.*
- Teaching in Graduate School at Iowa (2006, January) in L. A. Clark (instructor) *Seminar: Orientation to Clinical Research.*
- Orientation to Teaching at Iowa (2006, August) in S. J. Luck (organizer) *Psychology Department Orientation for New Graduate Students.*
- Applying to Graduate School (2002, April) in G. Oden (instructor) *Senior Seminar in Psychology*
- How to Get Into Graduate School (2002, March) in *Psi Chi National Honor Society Iowa Chapter Meeting.*

PROFESSIONAL ORGANIZATIONS

American Psychological Association
Association for Psychological Science
Cognitive Development Society
Cognitive Science Society
International Society on Infant Studies
Society for Research in Child Development