

## **Kerry E. Jordan**

UTAH STATE UNIVERSITY  
DEPARTMENT OF PSYCHOLOGY  
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### **ACADEMIC APPOINTMENTS**

**Utah State University**, Logan, UT  
Assistant Professor, Department of Psychology  
2007-

### **EDUCATION**

**Duke University**, Durham, NC  
Ph.D. in Psychology and Neuroscience, with specialization in Cognitive Development, 2007  
*Dissertation*: The multisensory nature of nonverbal number representations

**Harvard University**, Cambridge, MA  
B.A. (magna cum laude) in Psychology and Biology, with specialization in Cognitive Neuroscience, 2001

### **PROFESSIONAL AFFILIATIONS**

Cognitive Development Society (CDS)  
International Society for Infant Studies (ISIS)  
Northern Rocky Mountain Education Research Association (NRMERA)  
Jean Piaget Society (JPS)  
Sigma Xi, Scientific Research Society  
Society for Research in Child Development (SRCD)  
Vision Sciences Society (VSS)

## **RESEARCH**

### **RESEARCH INTERESTS**

- Representation of abstract concepts such as number
- Development and mechanisms of inter-sensory perception
- Applications of the above to cognitive development: e.g., can attention, learning, and memory be facilitated in domains such as numerical cognition by using stimuli that a) provide redundant information in multiple sensory modalities? b) are non-arbitrarily related across the sensory modalities and thus socially/ecologically relevant? How can any such effects be translated for educational benefits?
- Multisensory attentional and metacognitive correlates of videogame playing
- Perception of multisensory objects across space and time

### **AWARDS**

2009 Fellow, USU Proposal Writing Institute  
2008 Fellow, Summer Institute in Cognitive Neuroscience, Tahoe, CA  
2008 International Society for Infant Studies Outstanding Dissertation Award  
2007, 2008 USU Women and Gender Research Institute Faculty Travel Grant  
2006 Fellow, Preparing Future Faculty Program  
2005 Fellowship to the Summer Institute in Cognitive Neuroscience, Dartmouth College  
2005 Vision Sciences Society Student Travel Fellowship  
2005-2007 Conference Travel Fellowships, Duke University  
2004-2007 National Science Foundation Predoctoral Fellowship  
2003 Department of Defense Graduate Fellowship Honorable Mention  
2002 Annie Aitken Fellowship in Animal Behavior and Neuroscience, Duke University

### **RESEARCH GRANTS**

2008-2009 USU New Faculty Research Grant  
2006 APA Dissertation Research Award

- 2006           Sigma Xi Grant-in-Aid of Research  
 2000-2001    Harvard College Research Program grants  
 2000           Harvard College Mind/Brain/Behavior Senior Thesis Research grant

#### PUBLICATIONS IN PEER-REVIEWED JOURNALS

- Jordan, K.E.**, Clark, K., & Mitroff, S.R. (In press). See an object, hear an object file: Object correspondence transcends sensory modality. *Visual Cognition*.
- Jordan, K.E.**, MacLean, E., & Brannon, E.M. (2008). Monkeys match and tally quantities across senses. *Cognition* 108, 617-625.
- Jordan, K.E.**, Suanda, S., & Brannon, E.M. (2008). Intersensory redundancy accelerates preverbal numerical competence. *Cognition* 108, 210-221.
- Jordan, K.E.**, & Brannon, E.M. (2006). The multisensory representation of number in infancy. *Proceedings of the National Academy of Sciences*, 103, 3486-3489.
- Jordan, K.E.**, & Brannon, E.M. (2006). Weber's Law influences numerical representations in rhesus macaques (*Macaca mulatta*). *Animal Cognition*, 9, 159-172.
- Jordan, K.E.**, & Brannon, E.M. (2006). A common representational system governed by Weber's Law: Nonverbal numerical similarity judgments in six-year-old children and rhesus macaques. *Journal of Experimental Child Psychology*, 95, 215-229.
- Jordan, K.E.**, Brannon, E.M., Logothetis, N.K., & Ghazanfar, A.A. (2005). Monkeys match the number of voices they hear to the number of faces they see. *Current Biology*, 15, 1-5.
- Jordan, K.**, Weiss, D., Hauser, M., & McMurray, B. (2004). Antiphonal responses to loud contact calls produced by cotton-top tamarins (*Saguinus oedipus*). *International Journal of Primatology*, 25, 465-475.

#### BOOK CHAPTERS

- Brannon, E.M., **Jordan, K.E.**, & Jones, S. (In press). Behavioral signatures of numerical discrimination. In *Primate Neuroethology*, Eds., M.L. Platt, A. Ghazanfar. Oxford Press.
- Aminoff E, Balslev D, Borroni P, Bryan R, Chua E, Cloutier J, Cross E, Drew T, Gil da Costa R, Guerin S, Hall J, **Jordan K**, Landau A, Molnar-Szakacs I, Montaser-Kunhsan L, Olofsson J, Quadflieg S, Sommerville L, Sy J, Uddin L, Yamada M. (In press). The landscape of cognitive neuroscience: Challenges, rewards, and new perspectives. In *The Cognitive Neurosciences IV*, Ed. M. Gazzaniga, MIT Press, pp. 1255-1262.
- Jordan, K.E.**, & Brannon, E.M. (2009). A comparative approach to understanding human numerical cognition. In *The Origins of Object Knowledge*, Eds., B. Hood, L. Santos. Oxford University Press. pp. 53-84.

#### PUBLISHED ABSTRACTS

- Jordan, K.E.**, Clark, K., & Mitroff, S.R. (2009). See an object, hear an object file: Object correspondence transcends sensory modality. *Journal of Vision*, 9, 724a.
- Mitroff, S.R., & **Jordan, K.E.** (2008). Videogame players demonstrate enhanced multisensory abilities. *Journal of Vision*, 8, 1059a.
- Jordan, K.E.**, Maclean, E., & Brannon, E.M. (2006). Monkeys match sequentially presented sets with simultaneously presented arrays based on numerosity. *Journal of Vision*, 6, 186a.
- Jordan, K.E.**, Brannon, E.M., Logothetis, N.K., & Ghazanfar, A.A. (2005). Monkeys match the number of voices they hear to the number of faces they see. *Journal of Vision*, 5, 887a.
- Jordan, K.E.**, & Brannon, E.M. (2004). Rhesus macaques' performance on a number bisection task. *Proceedings and Abstracts of the Annual Meeting of the Eastern Psychological Association*, 75, 45.
- Jordan, K.E.**, & Brannon, E.M. (2004). Cardinal number representation in rhesus macaques. *Proceedings of the 11<sup>th</sup> Annual International Conference on Comparative Cognition*.

#### CONFERENCE PRESENTATIONS (\*USU STUDENT CO-PRESENTERS)

- Jordan, K.E.** (2009). Intersensory redundancy enhances early numerical abilities. Paper to be presented in symposium on "Neural and behavioral origins of mathematics" at the biennial meeting of the Cognitive Development Society, San Antonio, TX.
- Dansie, E.\*, Drollette, E.\*, Frye, A.\*, & **Jordan, K.** (2009). Multisensory stimuli enhance infant numerical representation only when present during both learning and testing. Poster presented at the annual meeting of the Jean Piaget Society, Park City, UT.
- Baker, J.M.\*, Frye, A.\*, Mendez, E.\*, Nye, E.\*, & **Jordan, K.E.** (2009). Intersensory redundancy enhances numerical matching abilities in preschool children. Poster presented at the biennial meeting of the Society for Research in Child Development, Denver, CO.
- Baker, J.\*, & **Jordan, K.E.** (2008). Multisensory information boosts numerical matching abilities in young children. Roundtable discussion presented at the annual meeting of the Northern Rocky Mountain

Educational Research Association, Lake Tahoe, NV.

- Jordan, K.E.**, Suanda, S., & Brannon, E.M. (2008). Redundant, multisensory information boosts infant numerical performance. Poster presented at the International Conference on Infant Studies, Vancouver, Canada.
- Jordan, K.E.** (2008). Abstract numerical thought without language. Paper presented at the centennial meeting of the Utah Academy of Sciences, Arts, and Letters, Salt Lake City, UT.
- Jordan, K.**, Suanda, S., & Brannon, E.M. (2007). Intersensory redundancy accelerates preverbal numerical competence. Poster presented at the biennial meeting of the Cognitive Development Society, Santa Fe, NM.
- Jordan, K.**, & Brannon, E.M. (2007). Developmental changes in numerical matching performance across stimulus format and modality. Poster presented at the biennial meeting of the Society for Research in Child Development, Boston, MA.
- Brannon, E.M., Cantlon, J.F., Cordes, S., **Jordan, K.E.**, Libertus, M., MacLean, E., & Suanda, U. (2006). Comparative and developmental approach to studying nonverbal numerical cognition. Paper presented at the annual meeting of the Psychonomic Society, Houston, TX.
- Jordan, K.E.**, & Brannon, E.M. (2006). Infants' multisensory representation of number. Paper presented at the International Conference on Infant Studies, Kyoto, Japan.
- Jordan, K.E.**, & Brannon, E.M. (2005). Infants match numerosities across the visual and auditory modalities. Poster presented at the biennial meeting of the Cognitive Development Society, San Diego, CA.
- Jordan, K.E.**, Fink, R., & Brannon, E.M. (2005). Nonverbal number representation in monkeys and children: A number bisection task. Poster presented at the biennial meeting of the Society for Research in Child Development, Atlanta, GA.
- Jordan, K.E.**, & Brannon, E.M. (2003). Cardinal number representation in rhesus monkeys. Poster presented at the annual meeting of the North Carolina Cognition Group, Durham, NC.

## PRESS COVERAGE

- 2008 Sample coverage of my paper in *Cognition*:  
*New Scientist*, "Counting monkeys tick off yet another 'human' ability"  
<http://www.newscientist.com/article/dn14231-counting-monkeys-tick-off-yet-another-human-ability.html>  
*Yahoo*, "Monkeys too possess abstract math skills just like humans"  
<http://in.news.yahoo.com/139/20080702/981/tsc-monkeys-too-possess-abstract-math-sk.html>  
*Salt Lake City Deseret News*, "Monkeys' memories impressive"  
<http://deseretnews.com/article/1,5143,700244710,00.html>  
*Logan Herald Journal*, "Study: Monkeys have rough math skills"  
[July 27 print edition](#)
- 2006 Sample coverage of my paper in *Proceedings of the National Academy of Sciences*:  
*CNN*, "Study: Babies know a little math"  
<http://www.cnn.com/2006/TECH/science/02/14/babies.math.reut/index.html>  
*Scientific American*, "Babies do the math on voices and faces"  
<http://www.sciam.com/article.cfm?chanID=sa003&articleID=000E7B5F-0B08-13F1-8B0883414B7F0000>  
*NSF*, "And baby counts three..."  
[http://www.nsf.gov/news/news\\_summ.jsp?cntn\\_id=105841](http://www.nsf.gov/news/news_summ.jsp?cntn_id=105841)  
*BBC*, "How babies do maths at 7 months"  
<http://news.bbc.co.uk/2/hi/science/nature/4713714.stm>
- 2005 These provide examples of coverage for my *Current Biology* paper:  
*Science News*, "Monkeys keep track of small numbers"  
<http://www.sciencenews.org/articles/20050702/note14.asp>  
*Scientific American*, "Monkey hear, monkey count"  
<http://www.sciam.com/article.cfm?chanID=sa003&articleID=00091022-CB1F-12A0-895D83414B7FFE87>  
*Forbes*, "Language may not be needed for number sense"  
<http://www.forbes.com/lifestyle/health/feeds/hscout/2005/06/10/hscout526175.html>  
*Duke Dialogue*, "Monkeys understand numbers across senses"  
<http://www.dukenews.duke.edu/2005/06/BrannonCurrBio.html>

## TEACHING

### TEACHING EXPERIENCE

Fall, 2009 Instructor, Advanced Development, USU

Spring and Fall, 2009 Co-Instructor, Cognition Seminar, USU  
Spring, 2009 Instructor, Cognitive Psychology Laboratory, USU  
Spring, 2009 Instructor, Cognitive Psychology, USU  
Fall, 2008 Instructor, Advanced Cognition, USU  
Spring, 2008 and 2009 Instructor, Cognition and Instruction, USU  
Fall, 2007, 2008, 2009 Instructor, General Psychology, USU  
Fall, 2005 Co-Instructor, Teaching, Ethics, and Professional Development graduate seminar, Duke  
Summer, 2005 Co-Instructor, NSF-REU Mechanisms of Behavior undergraduate research internship and seminar program, Duke  
Spring, 2005 Teaching Assistant, Biological Bases of Behavior (including lab), Duke  
Spring, 2004 Teaching Assistant, Cognitive Psychology, Duke  
Fall, 2003 and Fall, 2004 Teaching Assistant, Developmental Psychology, Duke

**GRADUATE DISSERTATION/THESIS COMMITTEES (\*CHAIR)**

Joseph Baker\* (USU Department of Psychology)  
Elizabeth Dansie (USU Department of Psychology)  
Michael Drysdale (USU Department of Psychology)  
Elisaida Mendez (USU Department of Psychology)  
Ana A. L. Baumann Neves (USU Department of Psychology)  
Christine Pacetti (USU Department of Psychology)  
Adam Pyszczanski (USU Department of Psychology)  
Stacey Quick (USU Department of Psychology)  
Katrina Rodzon\* (USU Department of Psychology)  
Jon Scoresby (USU Department of Instructional Technology)

**UNDERGRADUATE HONORS THESIS COMMITTEES**

Margaret Bates (Duke Department of Psychology and Neuroscience)

**INDEPENDENT STUDY UNDERGRADUATES, USU**

Emily Nye

**RESEARCH APPRENTICESHIP UNDERGRADUATES, USU**

Ned Atwood  
Rhett Bolton  
Blake Brinkerhoff  
Chris Brunson  
Carlie Christensen  
Katie Dotson (admitted to Springfield College Masters program in alcohol and substance abuse counseling)  
Eric Drollette (admitted to University of Illinois for Ph.D. in psychology)  
Claire Eborn  
Amber Frye  
J.D. Greene  
Valerie Hayes  
Brooke Hibshman  
Brady Hoggard  
Daniel Jensen  
Porter Macey  
Nicholle Mecham  
Jessica Muir  
Morgan Nield  
Ashley Nielsen  
Jessica Niemann  
Matthew Olsen  
Kindra Sealy  
Amanda Shorts  
Laura Smith  
Maja Stocking (admitted to USU for graduate work in School Counseling)  
Chad Taylor  
Sharolyn Taylor

Whitney Thurgood  
Natonis Walkenhorst  
Charles Wegener  
Jennelle Wilson

**OTHER UNDERGRADUATE/ALUMNI RESEARCH ASSISTANTS, USU**

Brian Beardall  
Daphne Bukirwa  
Sam Pool  
Alyssa Walker

**UNDERGRADUATE INTERNS FROM OTHER COLLEGES**

Rachel Scherer, New College of Florida

**HIGH SCHOOL RESEARCH ASSISTANTS**

Katie Luecke, Logan, UT

**SERVICE**

**PROFESSIONAL SERVICE, NATIONAL/INTERNATIONAL**

2009 Reviewer, Cognitive Development Panel submissions, International Conference on Infant Studies 2010  
2006- Ad-hoc journal reviews for *Animal Cognition*, *Child Development*, *Cognition*, *Developmental Science*,  
*Ethology*, *Journal of Comparative Psychology*, *Journal of Experimental Child Psychology*, *Journal of*  
*Experimental Psychology: Animal Behavior Processes*, *PLoS ONE*, *Proceedings of the Royal Society: B*  
*Biological Sciences*, *Psychological Science*

**PROFESSIONAL SERVICE, UNIVERSITY**

2009 Panelist, University Connections course, USU  
2009 Panelist, Family Consumer and Human Development brown bag, USU  
2008- Women and Gender Research Institute Steering Committee Member, USU  
2008 Panelist, Women and Gender Research Institute brown bag, USU  
2006-2007 Member, Graduate School Recruitment Team, Duke  
2003-2006 Member, Carnegie Initiative on the Doctorate Neuroscience Leadership Team, Duke

**PROFESSIONAL SERVICE, COLLEGE**

2008- College of Education and Human Services representative to the USU Sustainability Council's  
Education Committee  
2007 College of Education and Human Services Curriculum Committee member, USU

**PROFESSIONAL SERVICE, DEPARTMENT**

2009 Search committee member, USU quantitative psychology faculty position  
2009 Reviewer, Borg Scholarship applications, USU Department of Psychology  
2008- Experimental and Applied Psychological Science Steering Committee member, USU  
2008 Panelist, Psychology Club career panel, USU  
2008 Search committee member, Snow College psychology faculty position, USU