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## **EDUCATION**

- August 2015      Doctor of Philosophy, Tulane University, New Orleans, LA  
Psychological Science, Developmental Psychology concentration  
Dissertation: The development of orienting object features during hand to  
mouth transport in infants  
Advisor: Jeffrey J. Lockman
- May 2011         Master of Science, Tulane University, New Orleans, LA  
Psychological Science, Developmental Psychology concentration  
Thesis: Development of motor planning in a fitting task in toddlers  
Advisor: Jeffrey J. Lockman
- December 2003    Master of Education, University of New Orleans, New Orleans, LA  
Curriculum & Instruction, Early Childhood Education concentration
- August 2001      Bachelor of Science, The University of Texas at Austin, Austin, TX  
Human Development and Family Sciences

## **PUBLICATIONS**

- Jung, W. P., Kahrs, B. A., & Lockman, J. J. (2015). Manual action and spatial planning: Relating objects by young children. *Cognition, 134*, 128-139.
- Kahrs, B. A., Jung, W. P., & Lockman, J. J. (2014). When does tool use become distinctively human?: Hammering in young children. *Child Development, 85*, 1050-1061.
- Kahrs, B. A., Jung, W. P., & Lockman, J. J. (2013). Motor origins of tool use. *Child Development, 84*, 810-816.
- Kahrs, B. A., Jung, W. P., & Lockman, J. J. (2012). What is the role of infant banging in the development of tool use? *Experimental Brain Research, 218*, 315-320.

## PRESENTATIONS

- Jung, W. P., Kahrs, B. A., DeVries, B., Schwartz, M. E., Lockman, J. J. (2015, March). *Planning and end-state comfort when grasping baby bottles*. Poster session presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.
- Kahrs, B. A., Jung, W. P., DeVries, B., Schwartz, M. E., Lockman, J. J. (2015, March). *Anticipatory mouth opening in infancy is a matter of “if” not “when”*. Poster session presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.
- Jung, W. P., Kahrs, B. A., & Lockman, J. J. (2014, July). *Skilled Bottle Use by Infants*. Poster presented at the biennial meetings of the International Conference on Infant Studies, Berlin, Germany.
- Kahrs, B. A., Jung, W. P., & Lockman J. J. (2014, July). *From exploration to tool use: Adaptive action through striving for efficiency*. Paper symposium presented at the biannual International Conference on Infant Studies, Berlin, Germany.
- Kahrs, B. A., Jung, W. P., DeVries, B., Schwartz, M. E., Lockman, J. J. (2014, July). *Infants develop mapping of facial locations: A longitudinal study of hand to mouth transport*. Poster session presented at the biennial meetings of the International Conference on Infant Studies, Berlin, Germany.
- Kahrs, B. A., Jung, W. P., Rabinow, L., Fears, N. E., Lockman, J. J. (2014, July). *Objects as extensions of the hand: A longitudinal study of object banging*. Poster session presented at the biennial meetings of the International Conference on Infant Studies, Berlin, Germany.
- Jung, W. P., Kahrs, B. A., & Lockman, J. J. (2013, October). *Fitting objects with and without handles*. Poster session presented at the biennial meeting of the Cognitive Development Society, Memphis, TN.
- Jung, W. P. (2013, August). *From research to practice: Applying developmental science to early education*. Presented at the Greater New Orleans Association for Education of Young Children Annual Conference, New Orleans, LA.
- Jung, W. P., Kahrs, B. A., & Lockman, J. J. (2013, April). *Fitting objects with handles*. Poster session presented at the biennial meeting of the Society for Research in Child Development, Seattle, WA.
- Kahrs, B. A., Jung, W. P., Leed, J. E., Smith, A. R., & Lockman, J. J. (2013, April). *A longitudinal study of hand to mouth transport with objects in young infants*. Poster session presented at the biennial meeting of the Society for Research in Child Development, Seattle, WA.

- Redahan, S. J., Kahrs, B. A., Jung, W. P., Leed, J. E., & Lockman, J. J. (2013, April). *Skilled cup use by infants*. Poster session presented at the biennial meeting of the Society for Research in Child Development, Seattle, WA.
- Jung, W. P., Kahrs, B. A., Malderelli, J. E. & Lockman, J. J. (2012, June). *Planning when grasping objects with handles*. Poster session presented at the biennial International Conference on Infant Studies, Minneapolis, MN.
- Kahrs, B. A., Jung, W. P., & Lockman, J. J. (2012, June). *Toddlers' control of hand-held tools*. Paper symposium presented at the biennial International Conference on Infant Studies, Minneapolis, MN.
- Kahrs, B. A., Jung, W. P., & Lockman, J. J. (2012, June). *Continuity in ontogeny of tool use*. Poster session presented at the biennial International Conference on Infant Studies, Minneapolis, MN.
- Leed, J. E., Jung, W. P., Kahrs, B. A., Malderelli, J.E. & Lockman, J. J. (2012, June). *What makes a writing instrument writable? Infant exploration of graphic instruments*. Poster session presented at the biennial International Conference on Infant Studies, Minneapolis, MN.
- Redahan, S. J., Kahrs, B. A., Jung, W. P., Leed, J. E., & Lockman, J. J. (2012, June). *Strategy type: Consistently correct and consistently incorrect during a tool-using task*. Poster session presented at the biennial International Conference on Infant Studies, Minneapolis, MN.
- Jung, W. P., Kahrs, B. A., & Lockman, J. J. (2011, April). *Planning in a fitting task with handled objects*. Poster session presented at the biennial meeting of the Society for Research in Child Development, Montreal, QC, Canada.
- Kahrs, B. A., Jung, W. P., & Lockman, J. J. (2011, April). *Precursors to tool use: A kinematic study on the control of handled objects by infants*. Poster session presented at the biennial meeting of the Society for Research in Child Development, Montreal, QC, Canada.
- Leed, J. E., Jung, W. P., Kahrs, B. A., Maldarelli, J. E., & Lockman, J. J. (2011, April). *Effects of visual attention and graphic instrument properties on early scribbling*. Poster session presented at the biennial meeting of the Society for Research in Child Development, Montreal, QC, Canada.
- Maldarelli, J. E., Hunt, S. C., Jung, W. P., Kahrs, B. A., & Lockman, J. J. (2011, April). *Visual control of early handwriting*. Poster session presented at the biennial meeting of the Society for Research in Child Development, Montreal, QC, Canada.

- Kahrs, B. A., Jung, W. P., & Lockman, J. J. (2010, March). *Are infant manual 'stereotypies' stereotypic?* Poster session presented at the biennial International Conference on Infant Studies, Baltimore, MD.
- Leed, J. E., Kahrs, B. A., Jung, W. P., & Lockman, J. J. (2010, March). *Young children do not generalize affordance knowledge across different types of graphic instruments.* Poster session presented at the biennial International Conference on Infant Studies, Baltimore, MD.
- Redahan, S. J., Kahrs, B. A., Jung, W. P., Leed, J. E., & Lockman, J. J. (2010, March). *Motor strategies used while planning and orienting objects.* Poster session presented at the biennial International Conference on Infant Studies, Baltimore, MD.
- Jung, W. P., Kahrs, B. A., & Lockman, J. J. (2010, October). *Planning during a fitting task.* Poster session presented at the biennial meeting of the Cognitive Development Society, San Antonio, TX.
- Jung, W. P., Kahrs, B. A., & Lockman, J. J. (2009, April). *Reaching and fitting: Manual planning in toddlers.* Poster session presented at the biennial meeting of the Society for Research in Child Development, Denver, CO.
- Kahrs, B. A., Jung, W. P., & Lockman, J. J. (2009, April). *Proximodistal development of infant banging.* Poster session presented at the biennial meeting of the Society for Research in Child Development, Denver, CO.
- Redahan, S. J., Kahrs, B. A., Jung, W. P., Leed, J. E., & Lockman, J. J. (2009, April). *Planning and orienting objects during tool use.* Poster session presented at the biennial meeting of the Society for Research in Child Development, Denver, CO

## **RESEARCH EXPERIENCE**

- 2010-present Lab Coordinator, Tulane University, Infant & Toddler Development Project, New Orleans, LA
- Manage participant recruitment, participant payments, Institutional Review Board protocols, and NIH enrollment reports
- 2007-present Research Assistant, Tulane University, Infant & Toddler Development Project, New Orleans, LA
- Research using motion tracking technology to examine how young children use and explore objects

## **TEACHING EXPERIENCE**

2012-2015 Instructor, Tulane University, Department of Psychology, New Orleans, LA  
Courses: Psychology of Early Childhood, Child Psychology

2010-2012 Teaching Assistant, Tulane University, Department of Psychology,  
New Orleans, LA  
Courses: Univariate Statistics Laboratory, Social Psychology, Child Psychology

## **OTHER PROFESSIONAL EXPERIENCE**

2004-2007 Teacher, Newcomb College Nursery School, New Orleans, LA  
2000-2004 Assistant Teacher, Jewish Community Center Nursery School, New Orleans, LA  
2000 Assistant Teacher, UT Child and Family Laboratory, Austin, TX

## **AWARDS**

2011 Society for Research in Child Development Student Travel Award  
2010 Flowerree Summer Research Award  
2009 Society for Research in Child Development Student Travel Award

## **SERVICE**

2013-2015 Greater New Orleans Science and Engineering Fair Judge

## **TECHNICAL SKILLS**

Qualisys Track Manager  
SPSS  
Noldus Observer  
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## **PROFESSIONAL MEMBERSHIPS**

Society for Research in Child Development  
International Society on Infant Studies  
Cognitive Development Society