

## **CURRICULUM VITAE**

### **PERSONAL DATA**

Name: Ramesh S. Bhatt  
Nationality: U.S. Citizen  
Current Position: Professor, University of Kentucky  
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University of Kentucky  
012C Kastle Hall  
Lexington, KY 40506-0044  
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### **EDUCATION**

1988 Ph.D., University of Iowa: Psychology  
1986 M.A., University of Iowa: Psychology  
1982 Post-Graduate Diploma in Management, Indian Institute of Management at Bangalore, India  
1979 B.Sc., University of Madras, India: Mathematics

### **PROFESSIONAL POSITIONS**

2007- Professor, Department of Psychology, University of Kentucky  
2000-2007 Associate Professor, Department of Psychology, University of Kentucky  
1994-2000 Assistant Professor, Department of Psychology, University of Kentucky  
1990-1994 Research Associate, Department of Psychology, Rutgers University  
1988-1990 Postdoctoral Fellow, University of Texas Health Science Center at Houston  
1983-1987 University of Iowa Graduate Fellow

### **PROFESSIONAL ORGANIZATIONS**

Association for Psychological Science  
International Society of Infant Studies  
Psychonomic Society  
Society for Research on Child Development

### **AWARDS AND HONORS**

Fellow, Association for Psychological Science  
University Research Professor, University of Kentucky  
National Science Foundation Early CAREER Award  
National Eye Institute Postdoctoral Training Grant  
Don Lewis Dissertation Year Award  
University of Iowa Teaching-Research Fellowship  
Collegiate Associations Council Research Award  
Bombay Natural History Society Research Award

**RESEARCH SUPPORT**

- The development of emotion processing in infancy: National Institute of Child Health and Human Development (PI). University of Kentucky, 2015-2020. \$1,536,042.
- The development of body knowledge in infancy: National Science Foundation (PI). University of Kentucky, 2011-2015. \$432,751.
- Synthesizing self-model and mirror feedback imageries with applications to behavioral modeling for children with Autism: National Science Foundation (Co-PI; PI: Sen-ching Cheung). University of Kentucky, 2012-2016. \$798,912.
- Development of perceptual organization in infancy: National Institute of Child Health and Human Development (PI). University of Kentucky, 2003-2008. \$1,113,576.
- Functional neuroanatomy of developmental changes in face processing: National Institutes of Child Health and Human Development (Co-I; PI: Jane Joseph). University of Kentucky, 2007-2012. \$1,532,774.
- A comparative developmental connectivity study of face processing: National Institute of Mental Health (Co-I; PI: Jane Joseph). University of Kentucky, 2009-2014. \$1,592,480.
- A comparative fMRI study of evolutionary precursors to written language: National Science Foundation (Co-I; PI: Jane Joseph). University of Kentucky, 2002-2006. \$665,386.
- Developmental fMRI study: Face and object recognition. National Institute of Mental Health (NRSA. Co-supervisor: Ann Gathers), 2003-2005. \$27,881.
- Visual perception and memory in infancy: National Science Foundation Early CAREER award (PI). University of Kentucky, 1996-2000. \$382,753.
- Learning and memory in preterm infants: Interdisciplinary Human Development Institute Research Award. University of Kentucky, 1996.
- Perception of and memory for relational information in early infancy: Research Committee Grant. University of Kentucky, 1995.
- Learning and memory in infants: Summer Faculty Research Fellowship. University of Kentucky, 1995.
- Memory and conceptual behavior in primates and avians: National Institute of Mental Health Individual Postdoctoral Fellowship. University of Texas, 1988-1990.
- Categorization in pigeons: Sigma Xi Grant-in Aid of Research. University of Iowa, 1986.

**ASSOCIATE EDITOR**

*Journal of Experimental Child Psychology*

**CONSULTING EDITOR**

*Infancy*

*Child Development*

*Learning and Behavior*

**AD HOC REVIEWER**

*Advances in Infancy Research*

*Behavioral Brain Research*

*British Journal of Developmental Psychology*

*Child Development*

*Developmental Psychology*  
*Developmental Psychobiology*  
*Developmental Science*  
*European Journal of Developmental Psychology*  
*Infancy*  
*Infant Behavior and Development*  
*Infant and Child Development*  
*Journal of Experimental Child Psychology*  
*Journal of Experimental Psychology: Animal Behavior Processes*  
*Journal of Experimental Psychology: Learning, Memory and Cognition*  
*Journal of Experimental Psychology: General*  
*Journal of Nonverbal Behavior*  
*Learning and Behavior*  
*Memory and Cognition*  
*Perception*  
*Perception and Psychophysics*  
*Progress in Infancy Research*  
*Psychological Science*  
*Psychological Review*  
*Vision Research*

- I also reviewed papers submitted to the Conference on Human Development (1996), International Congress on Infant Studies (2018), and meetings of the Society for Research in Human Development (1999, 2001, 2019).

#### **GRANT REVIEW PANEL**

- National Institutes of Health (2011, 2012, 2013; ad hoc member of Cognition & Perception and ZRG1 BBBP-L panels)
- National Science Foundation (2002-2005)
- National Science Foundation ad hoc reviewer (1996- )

#### **PUBLICATIONS** (\* denotes undergraduate, graduate, or post-doctoral student)

Jubran, R.\*, White, H.\*, Hock, A.\*, Heck, A.\*, & Bhatt, R. S. (In press). Experimental evidence of structural representation of hands in early infancy. *International Journal of Behavioral Development*.

Quinn, P. C., & Bhatt, R. S. (In press). Size and orientation cue figure-ground segregation in infancy. *Visual Cognition*.

Heck, A.\*, Chroust, A.\*, White, H.\*, Jubran, R.\*, & Bhatt, R. S. (2018). Development of body emotion perception in infancy: From discrimination to recognition. *Infant Behavior and Development*, 50, 42-51.

White, H.\*, Hock, A.\*, Jubran, R.\*, Heck, A.\*, & Bhatt, R. S. (2018). The role of shape recognition in figure/ground perception in infancy. *Psychonomic Bulletin & Review*, 25(4), 1381-1387.

- White, H.\*, Hock, A.\*, Jubran, R.\*, Heck, A.\*, & Bhatt, R. S. (2017). Visual scanning of males and females in infancy. *Journal of Experimental Child Psychology*, *166*, 79-95.
- Hock, A.\*, Oberst, L.\*, Jubran, R.\*, White, H\*., Heck, A\*, & Bhatt, R.S. (2017). Integrated emotion processing in infancy: Matching of faces and bodies. *Infancy*, *22*, 608-625.
- Heck, A.\*, Hock, A.\*, White, H.\*, Jubran, R.\*, & Bhatt, R. S. (2017). Further evidence of early development of attention to dynamic facial emotions: Reply to Grossman and Jessen (2016). *Journal of Experimental Child Psychology*, *153*, 155-162.
- Bhatt, R. S., Hock, A.\*, White, H.\*, Jubran, R.\*, & Galati, A\*. (2016). The development of body structure knowledge in infancy. *Child Development Perspectives*, *10*, 45-52.
- Heck, A.\*, Hock, A.\*, White, H.\*, Jubran, R.\*, & Bhatt, R. S. (2016). The development of attention to dynamic facial emotions. *Journal of Experimental Child Psychology*, *147*, 100-110.
- Hock, A.\*, White, H.\*, Jubran, R.\*, & Bhatt, R. S. (2016). The whole picture: Holistic body posture recognition in infancy. *Psychonomic Bulletin & Review*, *23*(2), 426-431.
- Galati, A.\*, Hock, A.\*, & Bhatt, R. S. (2016). Perceptual learning and face processing in infancy. *Developmental Psychobiology*, *58*(7), 829-840.
- Xun, Z., Bhatt, R. S., & Joseph, J. E. (2016). Pruning or tuning? Maturational profiles of face specialization during typical development. *Brain and Behavior*.
- Hock, A.\*, Kangas, A.\*, Zieber, N.\*, & Bhatt, R.S. (2015). The development of sex category representation in infancy: Matching of faces and bodies. *Developmental Psychology*, *51*(3), 346-352.
- Joseph, J. E., DiBartolo, M. D., & Bhatt, R. S. (2015). Developmental changes in analytical and holistic processes in face perception. *Frontiers in Psychology*, *6*.
- Zieber, N.\*, Kangas, A.\*, Hock, A.\*, & Bhatt, R. S. (2015). Body structure perception in infancy. *Infancy*, *20*, 1-17.
- Quinn, P. C., & Bhatt, R. S. (2015). Development of perceptual organization in infancy. J. Wagemans (Ed.), *The Oxford Handbook of Perceptual Organization* (pp 691-712). Oxford University Press: Oxford, UK.
- Joseph, J. E., Zhu, X., Gundran, A., Davies, F., Clark, J. D., Ruble, L., Glaser, P., & Bhatt, R. S. (2015). Typical and atypical neurodevelopment for face specialization: an fMRI study. *Journal of Autism and Developmental Disorders*, *45*, 1725-1741.
- Zieber, N.\*, Kangas, A.\*, Hock, A.\*, & Bhatt, R. S. (2014). The development of intermodal emotion perception from bodies and voices. *Journal of Experimental Child Psychology*, *126*, 68-79.

- Zieber, N.\*, Kangas, A.\*, Hock, A.\*, & Bhatt, R. S. (2014). Infants' perception of emotions from body movements. *Child Development*, *85*, 675-684.
- Zieber, N.\*, Kangas, A\*., Hock, A\*., Hayden, A\*., Collins, R., Bada, H., Joseph, J. E., & Bhatt, R. S. (2013). Perceptual specialization and configural processing in infancy. *Journal of Experimental Child Psychology*, *116*, 625-639.
- Kangas, A.\*, Zieber, N.\*, Hayden, A.\*, & Bhatt, R. S. (2013). Parts function as perceptual organizational entities in infancy. *Psychonomic Bulletin and Review*, *20*, 726-731.
- Quinn, P. C., & Bhatt, R. S. (2012). Grouping by form in young infants: Only relevant variability promotes perceptual learning. *Perception*, *41*(12), 1468-1476.
- Hayden, A.\*, Bhatt, R. S., Kangas, A.\*, Zieber, N.\*, & Joseph, J. E. (2012). Race-based perceptual asymmetry in face processing is evident early in life. *Infancy*, *17*(5), 578-590.
- Joseph, J. E., Swearingen, J. E., Clark, J. D.\*, Benca, C. E.\*, Collins, H. R.\*, Corbly, C. R.\*, Gathers, A. D., and Bhatt, R. S (2012). The changing landscape of functional brain networks for face processing in typical development. *NeuroImage*, *63*, 1223-1236.
- Collins, H. R.\*, Zhu, X.\*, Bhatt, R. S., Clark, J. D.\*, & Joseph, J. E. (2012). Process- and domain-specificity in regions engaged for face processing: An fMRI study of perceptual differentiation. *Journal of Cognitive Neuroscience*, *24*, 2428-2444.
- Quinn, P. C., & Bhatt, R. S. (2012). Gestalt psychology and the development of perceptual organization. In V. S. Ramachandran (Ed.), *Encyclopedia of human behavior* (Vol. 2, pp.238-247). Oxford, UK: Elsevier.
- Kangas, A.\*, Zieber, N.\*, Hayden, A.\*, Quinn, P. C., & Bhatt, R. S. (2011). Transfer of associative grouping to novel perceptual contexts in infancy. *Attention, Perception, & Psychophysics*, *73*(8), 2657-2667.
- Bhatt, R. S., & Quinn, P. C. (2011). How does learning impact development in infancy? The case of perceptual organization. *Infancy*, *16*, 2-38.
- Bhatt, R. S., & Quinn, P. C. (2011). Different approaches to the study of early perceptual learning. *Infancy*, *16*, 61-68.
- Joseph, J. E., Bhatt, R. S., & Gathers, A. D. (2011). Progressive and regressive developmental changes in neural substrates for face processing: Testing specific predictions of the Interactive Specialization account. *Developmental Science*, *14*, 227-241.

- Hayden, A. \*, Bhatt, R. S., Kangas, A. \*, & Zieber, N. \* (2011). Parts, cavities, and object representation in infancy. *Journal of Experimental Psychology: Human Perception and Performance*, *37*, 314-317.
- Zieber, N. \*, Bhatt, R. S., Hayden, A. \*, Kangas, A. \*, Collins, R., & Bada, H. (2010). Body representation in the first year of life. *Infancy*, *15*(5), 534-544.
- Bhatt, R. S., Hayden, A. \*, Kangas, A. \*, Zieber, N. \*, & Joseph, J. E. (2010). Part perception in infancy: Sensitivity to the short-cut rule. *Attention, Perception, & Psychophysics*, *72*(4), 1070-1078.
- Quinn, P. C., & Bhatt, R. S. (2010). Learning perceptual organization in infancy: The effect of massed versus distributed variability experience. *Perception*, *39*, 795-806.
- Quinn, P. C., & Bhatt, R. S. (2009). Transfer and scaffolding of perceptual grouping occurs across organizing principles in 3- to 7-month-old infants. *Psychological Science*, *20*, 933-938.
- Hayden, A. \*, Bhatt, R. S., Zieber, N. \*, & Kangas, A. \* (2009). Race-based perceptual asymmetries underlying face processing in infancy. *Psychonomic Bulletin and Review*, *16*, 270-275.
- Quinn, P. C., & Bhatt, R. S. (2009). Perceptual organization in infancy: Bottom-up and top-down influences. *Optometry and Vision Science*, *86*, 589-594. Special Issue on infant/child vision research: Present status and future directions.
- Hayden, A. \*, Bhatt, R. S., & Quinn, P. C. (2009). Relations between uniform connectedness, luminance, and shape similarity as perceptual organizational cues in infancy. *Attention, Perception, & Psychophysics*, *71*, 52-63.
- Hayden, A. \*, Bhatt, R. S., & Quinn, P. C. (2008). Perceptual organization based on illusory regions in infancy. *Psychonomic Bulletin and Review*, *15*, 443-447.
- Quinn, P. C., Bhatt, R. S., & Hayden, A. \* (2008). Young infants readily use proximity to organize visual pattern information. *Acta Psychologica*, *127*, 289-298.
- Quinn, P. C., Bhatt, R. S., & Hayden, A. \* (2008). What goes with what? Development of perceptual grouping in infancy. In B. H. Ross (Ed.), *Psychology of Learning and Motivation*, Vol. 49 (pp. 105-146). San Diego: Elsevier.
- Hayden, A. \*, Bhatt, R. S., Reed, A. \*, Corbly, C. R. \*, & Joseph, J. E. (2007). The development of expert face processing: Are infants sensitive to normal differences in second-order relational information? *Journal of Experimental Child Psychology*, *97*, 85-98.
- Hayden, A. \*, Bhatt, R. S., Joseph, J. E., & Tanaka, J. W. (2007). The other-race effect in infancy: Evidence using a morphing technique. *Infancy*, *12*, 95-104.

- Bhatt, R. S., Hayden, A.\*, & Quinn, P. C. (2007). Perceptual organization based on common region in infancy. *Infancy*, *12*, 147-168.
- Joseph, J. E., Gathers, A. D. \*, Liu, X. \*, Corbly, C. R. \*, Whitaker, S. K. \*, & Bhatt, R. S. (2006). Neural developmental changes in processing inverted faces. *Cognitive, Affective, and Behavioral Neuroscience*, *6*, 223-235.
- Bhatt, R. S., Hayden, A.\*, Reed, A.\*, Bertin, E., & Joseph, J. E. (2006). Infants' perception of information along object boundaries: concavities versus convexities. *Journal of Experimental Child Psychology*, *94*, 91-113.
- Hayden, A.\*, Bhatt, R. S., & Quinn, P. C. (2006). Infants' sensitivity to uniform connectedness as a cue for perceptual organization. *Psychonomic Bulletin and Review*, *13*, 257-261.
- Quinn, P. C., & Bhatt, R. S. (2006). Are some Gestalt principles deployed more readily than others during early development? The case of lightness versus form similarity. *Journal of Experimental Psychology: Human Perception and Performance*, *32*, 1221-1230.
- Joseph, J. E., Powell, D. K., Anderson, A. H., Bhatt, R. S., Dunlap, M., Foldes, S., Forman, E., Hardy, P. A., Steinmetz, N. A., Zhang, Z. (2006). fMRI in alert, behaving monkeys: An adaptation of the human infant familiarization novelty preference procedure. *Journal of Neuroscience Methods*, *157*, 10-24.
- Bertin, E.\*, & Bhatt, R. S. (2006). Three-month-old infants' sensitivity to orientation cues in the 3-D depth plane. *Journal of Experimental Child Psychology*, *93*, 45-62.
- Bhatt, R. S., Bertin, E.\*, Hayden, A.\*, & Reed, A.\* (2005). Face processing in infancy: Developmental changes in the use of different kinds of relational information. *Child Development*, *76*, 169-181.
- Quinn, P. C., & Bhatt, R. S. (2005). Good continuation affects discrimination of visual pattern information in young infants. *Perception and Psychophysics*, *67*, 1171-1176.
- Quinn, P. C., & Bhatt, R. S. (2005). Learning perceptual organization in infancy. *Psychological Science*, *16*, 511-515.
- Klein, E. D.\*, Bhatt, R. S., & Zentall, T. R. (2005). Contrast and the justification of effort. *Psychonomic Bulletin & Review*, *12*, 335-339.
- Bertin, E.\*, & Bhatt, R. S. (2004). The Thatcher illusion and face processing in infancy. *Developmental Science*, *7*, 431-436.
- Gathers, A. D.\*, Bhatt, R. S., Corbly, C. R.\*, Farley, A. B.\*, & Joseph, J. E. (2004). Developmental shifts in cortical loci for face and object recognition. *NeuroReport*, *15*, 1549-1553.
- Bhatt, R. S., Wilk, A.\*, Hill, D., & Rovee-Collier, C. (2004). Correlated attributes and categorization in the first half-year of life. *Developmental Psychobiology*, *44*, 103-115.
- Quinn, P. C., Bhatt, R. S., Brush, D.\*, Grimes, A.\*, & Sharpnack, H.\* (2002). Development of the use of form similarity as a Gestalt grouping principle in 3- to 7-month-old infants. *Psychological Science*, *13*, 320-328.

- Zentall, T. R., Clement, T. S.\*, Bhatt, R. S., & Allen, J.\* (2001). Episodic-like memory in pigeons. *Psychonomic Bulletin & Review*, 8, 685-690.
- Bhatt, R. S., & Bertin, E.\* (2001). Pictorial cues and three-dimensional information processing in early infancy. *Journal of Experimental Child Psychology*, 80, 315-332.
- Bertin, E.\*, & Bhatt, R. S. (2001). Figural goodness, stimulus heterogeneity, similarity, and object segregation in infancy. *Developmental Science*, 4, 423-432.
- Bertin, E.\*, & Bhatt, R. S. (2001). Dissociations between featural versus conjunction-based texture processing in infancy: Analyses of three potential contributing factors. *Journal of Experimental Child Psychology*, 78, 291-311.
- Quinn, P. C., & Bhatt, R. S. (2001). Object recognition and segregation in infancy: Historical perspective, theoretical significance, kinds of knowledge, and relation to object categorization. *Journal of Experimental Child Psychology*, 78, 25-34.
- Bhatt, R. S., Bertin, E.\*, & Gilbert, J.\* (1999). Discrepancy detection and developmental changes in attentional engagement in infancy. *Infant Behavior and Development*, 22, 197-219.
- Bhatt, R. S., & Waters, S. E.\* (1998). Perception of three-dimensional cues in early infancy. *Journal of Experimental Child Psychology*, 70, 207-224.
- Quinn, P., & Bhatt, R. S. (1998). Visual pop-out in infancy: Convergent evidence and an extension. *Infant Behavior and Development*, 21, 273-288.
- Hartshorn, K.\*, Rovee-Collier, C., Gerhardstein, P.\*, Bhatt, R. S., Klein, P.\*, Aaron, F.\*, Wondoloski, T.\*, & Wurtzel, N.\* (1998). Developmental changes in the specificity of memory over the first year of life. *Developmental Psychobiology*, 33, 61-78.
- Hartshorn, K.\*, Rovee-Collier, C., Gerhardstein, P.\*, Bhatt, R. S., Wondoloski, T. L.\*, Klein, P.\*, Gilch, J.\*, Wurtzel, N.\*, & Campos-de-Carvalho, M.\* (1998). The ontogeny of long-term memory over the first year-and-a-half of life. *Developmental Psychobiology*, 32, 69-89.
- Bhatt, R. S. (1997). The interface between perception and memory in infancy: Feature detection, visual pop-out effects, feature integration, and long-term memory in infancy. In C. Rovee-Collier, & L. P. Lipsitt (Eds.), *Advances in Infancy Research* (Vol. 11, pp. 143-191). Norwood, NJ: Ablex.
- Bhatt, R. S., & Rovee-Collier, C. (1997). Dissociation between features and feature relations in infant memory: Effects of memory load. *Journal of Experimental Child Psychology*, 67, 69-89.
- Bhatt, R. S., & Rovee-Collier, C. (1996). Infant's forgetting of correlated attributes and object recognition. *Child Development*, 67, 172-187.
- Rovee-Collier, C., Bhatt, R. S., & Chazin, C.\* (1996). Set size, novelty, and pop-out in infancy. *Journal of Experimental Psychology: Human Perception and Performance*, 22, 1178-1187.
- Earley, L. A.\*, Bhatt, R. S., & Rovee-Collier, C. (1995). Developmental changes in the contextual control of infant recognition. *Developmental Psychobiology*, 28, 27-43.



- Rovee-Collier, C., & Bhatt, R. S. (1995). Langzeitgedächtnis im sauglingsalter. In H.G. Petzold (Ed.), *Die Kraft Liebevoller Blicke* (Vol. 2, pp. 143-165). Paderborn, Germany: Jungfermann Verlag.
- Bhatt, R. S., & Rovee-Collier, C. (1994). Perception and 24-hour retention of feature relations in infancy. *Developmental Psychology, 30*, 142-150.
- Bhatt, R. S., Rovee-Collier, C., & Weiner, S.\* (1994). Developmental changes in the interface between perception and memory retrieval. *Developmental Psychology, 30*, 151-162.
- Bhatt, R. S., Rovee-Collier, C. & Shyi, C. -W.\* (1994). Global and local processing of incidental information and memory retrieval at 6 months. *Journal of Experimental Child Psychology, 57*, 141-162.
- Rovee-Collier, C., & Bhatt, R. S. (1993). Evidence of long-term memory in infancy. In R. Vasta (Ed.), *Annals of Child Development, Vol. 9*. (pp. 1-45). London: Jessica Kingsley Publishers, Ltd.
- Wasserman, E. A., & Bhatt, R. S. (1992). Conceptualization of natural and artificial stimuli in pigeons. In W. K. Honig, & J. G. Fetterman (Eds.), *Cognitive aspects of stimulus control* (pp. 203-223). Hillsdale, NJ: Erlbaum.
- Bhatt, R. S., & Wright, A. A. (1992). Concept learning by monkeys with video picture images and a touch screen. *Journal of the Experimental Analysis of Behavior, 57*, 219-225.
- Rovee-Collier, C., Hankins, E. M.\*, & Bhatt, R. S. (1992). Textons, visual pop-out effects, and object recognition in infancy. *Journal of Experimental Psychology: General, 121*, 436-446.
- Bhatt, R. S., & Wasserman, E. A. (1989). Secondary generalization and categorization in pigeons. *Journal of the Experimental Analysis of Behavior, 52*, 213-224.
- Wasserman, E. A. & Bhatt, R. S. (1989). Memory and concepts in pigeons. In N. W. Bond & A. T. Siddle (Eds.), *Proceedings of the XXIV international congress of psychology, Vol. 6, Psychobiology: Issues and applications* (pp. 87-94). North Holland: Elsevier.
- Wasserman, E. A., Kiedinger, R. E.\*, & Bhatt, R. S. (1988). Conceptual behavior in pigeons: Categories, subcategories, and pseudocategories. *Journal of Experimental Psychology: Animal Behavior Processes, 14*, 235-246.
- Bhatt, R. S., Wasserman, E. A., Reynolds, Jr., W. F.\*, & Knauss, K. S.\* (1988). Conceptual behavior in pigeons: Categorization of both familiar and novel examples from four classes of natural and artificial stimuli. *Journal of Experimental Psychology: Animal Behavior Processes, 14*, 219-234.
- Wasserman, E. A., Bhatt, R. S., Chatlosh, D. L., & Kiedinger, R. E. (1987). Discrimination of and memory for value and dimension information in pigeons. *Learning and Motivation, 18*, 34-56.
- Bhatt, R. S., & Wasserman, E. A. (1987). Choice behavior of pigeons on progressive and multiple schedules: A test of optimal foraging theory. *Journal of Experimental Psychology: Animal Behavior Processes, 13*, 40-51.

## **PUBLISHED ABSTRACTS**

- Joseph, J. E., Clark, J., Dekhtyar, O., Liu, X., Corbly, C., Gathers, A., & Bhatt, R. (2008). Emergence of right frontal connections for face processing across development: Resting-state and task related connectivity. Program No. 787.2. *2008 Neuroscience Meeting Planner*. Washington, DC: Society for Neuroscience 2008.
- Clark, J. D., Dekhtyar, O., Liu, X., Gathers, A. D., Corbly, C. R., Bhatt, R., & Joseph, J. E. (2008). Emergence of right frontal connections for face processing across development: Comparison with object processing connectivity. Program No. 787.8. *2008 Neuroscience Meeting Planner*. Washington, DC: Society for Neuroscience 2008.
- Johnson, N. F., Powell, D., Andersen, A., Bhatt, R., Bryant, R., Dunlap, M., Forman, E., Hardy, P., Steinmetz, N., Corbly, C., Foldes, S., Zhang, Z., Joseph, J. (2008). fMRI adaptation and change detection in the naïve non-human primate. Program No. 192.8. *2008 Neuroscience Meeting Planner*. Washington, DC: Society for Neuroscience 2008.
- Joseph, J. E., Dekhtyar, O., Liu, X., Corbly, C. R., Bhatt, R. A., & Gathers, A. D. (2007). Functional brain development for face recognition involves a reduction in redundant pathways: Evidence from functional connectivity analyses. Program No. 866.8. *2007 Neuroscience Meeting Planner*. San Diego, CA: Society for Neuroscience 2007.
- Joseph, J. E., Powell, D. K., Andersen, A. H., Bhatt, R. S., Dunlap, M. K., Foldes, S. T., Forman, E., Hardy, P. A., Steinmetz, N. A., Zhang, Z. (2005). fMRI of novelty detection in alert, behaviorally naïve Rhesus monkeys. *Journal of Cognitive Neuroscience: Supplement*, 104.
- Joseph, J. E., Powell, D. K., Andersen, A. H., Bhatt, R. S., Dunlap, M. K., Foldes, S. T., Forman, E., Hardy, P. A., Steinmetz, N. A., Zhang, Z. (2005). fMRI adaptation in freely viewing monkeys correlates with behavioral adaptation. Program No.66.11. *2005 Abstract Viewer/Itinerary Planner*. Washington, D.C.: Society for Neuroscience. Online.
- Gathers, A. D., Bhatt, R. S., & Joseph, J. E. (2004). Face and object processing across development: A structural similarity mechanism. *Journal of Cognitive Neuroscience: Supplement*, 126.
- Gathers, A. D., Bhatt, R. S., Corbly, C. R., Farley, A. B., Joseph, J. E. (2004). A developmental fMRI investigation of the neural correlates of object and face recognition. *NeuroImage*, 22 (Supplement 1), e971-e972.
- Gathers, A. D., Bhatt, R. S., Corbly, C. R., Liu, X., & Joseph, J. E. (2004). Developmental changes in neural correlates for upright and inverted faces. Program No. 481.10. *2004 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience.

### **INVITED PRESENTATIONS**

- Bhatt, R.S., Heck, A., Chroust, A., White, H., & Jubran, R. (June, 2018). *The development of body emotion processing in infancy*. Invited paper presented at the International Congress on Infant Studies, Philadelphia, PA.

- Bhatt, R.S., Hock, A., White, H., Jubran, R., & Heck, A. (April, 2017). *The development of structural and functional knowledge about bodies in infancy*. Invited paper presented at the Society for Research in Child Development Biennial Meeting in Austin, Texas.
- Bhatt, R.S., Hock, A., White, H., Jubran, R., & Heck, A. (May, 2016). *The development of body knowledge in infancy*. Invited paper presented at the Origins of Body Representations Preconference at the International Conference on Infant Studies in New Orleans, Louisiana.
- Bhatt, R. S., Kangas, A., Hock, A., & Oberst, L. (July, 2014). *Perceptual learning and face processing in infancy*. Symposium presentation at the International Conference on Infant Studies, Berlin, Germany.
- Bhatt, R. S. (August, 2010). *The development of face processing expertise*. Symposium presentation at the International Conference on Cognitive Science, Beijing, China.
- Bhatt, R. S., Hayden, A., Graves, T., & Bertin, E. (April, 2007). *Infants' sensitivity to configural information in faces*. Symposium presentation at the meeting of the Society for Research in Child Development, Boston, MA.
- Bhatt, R. S. (2005). *The development of face processing expertise in infancy*. Eastern Kentucky University, Richmond, Kentucky.
- Bhatt, R. S. (2003). *Object perception in infancy*. Presented at the meeting of the Midwestern Psychological Association, Chicago, Illinois.
- Bhatt, R. S., Quinn, P. C., & Bertin, E. (2002). *The role of similarity in perceptual segregation and integration in infancy*. Symposium presentation at the International Conference on Infant Studies, Toronto, Canada.
- Bhatt, R. S. (1999). *Attentional engagement and object perception in infancy*. University of Louisville, Kentucky.
- Bhatt, R. S. (1998). *Memory in infancy*. Presented at the meeting of the Kentucky Psychological Association, Louisville, Kentucky.
- Bhatt, R. S. (1996). *Learning and memory in infancy*. Department of Pediatrics, College of Medicine, University of Kentucky, Lexington, Kentucky.
- Bhatt, R. S. (1993). *Context effects in infant long-term memory*. Presented at the meeting of the Society for Research in Child Development, New Orleans, LA.
- Bhatt, R. S. (1992). *The interface between memory and perception*. Presented at the International Conference on Infant Studies, Miami, Florida.
- Bhatt, R. S. (1989). *Categorization in pigeons*. Rice University, Texas

Bhatt, R. S. (1989). *Conceptual behavior in pigeons*. University of Texas at Austin, Texas.

Wasserman, E. A., & Bhatt, R. S. (1988). *Memory and concepts in pigeons*. Presented at the International Congress of Psychology, Sydney, Australia.

### **PRESENTATIONS IN PROFESSIONAL MEETINGS**

White, H., Heck, A., & Bhatt, R.S. (June, 2018). *Socioeconomic status and cognitive development in infancy*. Poster presentation at the International Congress on Infant Studies, Philadelphia, PA.

Jubran, R., White, H., & Bhatt, R.S. (June, 2018). *Body processing and attentional patterns in infancy*. Poster presentation at the International Congress on Infant Studies, Philadelphia, PA.

Heck, A., Jubran, R., & Bhatt, R.S. (June, 2018). *I'll have what she's having: Infants' preferences for female faces extends to female-referenced objects*. Poster presentation at the International Congress on Infant Studies, Philadelphia, PA.

Chroust, A., Bada, H., & Bhatt, R.S. (June, 2018). *Processing of spatial information in social and non-social stimuli by opioid-exposed and non-exposed newborns*. Poster presentation at the International Congress on Infant Studies, Philadelphia, PA.

White, H., Hock, A., Jubran, R., Heck, A., & Bhatt, R.S. (April, 2017). *Dichotomous perception of face continua in Infancy*. Poster presentation at the meeting of the Society for Research on Child Development, Austin, TX.

White, H., Hock, A., Jubran, R., Heck, A., & Bhatt, R. S. (April, 2017). *Dichotomous perception of unfamiliar species categories in infancy*. Poster presentation at the meeting of the Society for Research on Child Development, Austin, TX.

Hock, A., & Bhatt, R.S. (2017). *Visual scanning of body emotions in infancy*. Poster presented at the meeting of the Society for Research in Child Development, Austin, TX.

Heck, A., & Bhatt, R.S. (May, 2016). *Emotion processing in infancy: Early negativity bias*. Poster presented at the International Conference on Infant Studies, New Orleans, Louisiana.

Hock, A., Jubran, R., White, H., & Bhatt, R.S. (May, 2016). *Configural face processing in newborn infants*. Poster presented at the International Congress on Infant Studies, New Orleans, LA.

Jubran, R., Hock, A., White, H., Heck, A., & Bhatt, R.S. (May, 2016). *Attraction of infant's attention by emotional body stimuli*. Poster presented at the International Conference on Infant Studies, New Orleans, Louisiana.

White, H., Hock, A., Jubran, R., Heck, A., & Bhatt, R.S. (May, 2016). *Categorical perception of species in infancy*. Poster presented at the International Conference on Infant Studies, New Orleans, Louisiana.

- Hock, A., Jubran, R., White, H., & Bhatt, R.S. (March, 2015). *Infants' attention to emotion in bodies*. Poster presented at the meeting of the Society for Research in Child Development, Philadelphia, PA.
- Hock, A., White, H., Jubran, R., & Bhatt, R.S. (March, 2015). *Development of body representation in infancy: Scanning of specific body regions of the different sexes*. Poster presented at the meeting of the Society for Research in Child Development, Philadelphia, PA.
- Hock, A., Oberst, L., & Bhatt, R.S. (July, 2014). *Matching of facial and body emotion information in infancy*. Poster presented at the meeting of the International Society on Infant Studies, Berlin, Germany.
- Hock, A., Oberst, L., & Bhatt, R.S. (July, 2014). *The development of holistic processing of non-human animal stimuli*. Poster presented at the meeting of the International Society on Infant Studies, Berlin, Germany.
- Hock, A., Zieber, N., Kangas, A., & Bhatt, R.S. (April, 2013). *The whole picture: Body posture recognition in infancy*. Poster presented at the meeting of the Society for Research in Child Development, Seattle, Washington.
- Hock, A., Kangas, A., Oberst, L., Zieber, N., & Bhatt, R.S. (April, 2013). *The development of body knowledge in infancy: Sensitivity to the Waist-to-Hip Ratio*. Poster presented at the meeting of the Society for Research in Child Development, Seattle, Washington.
- Kangas, A., Hock, A., Zieber, N., & Bhatt, R.S. (April, 2013). *What goes with what? Infants' knowledge of gender in faces and bodies*. Poster presented at the meeting of the Society for Research in Child Development, Seattle, Washington.
- Zieber, N., Kangas, A. & Bhatt, R.S. (June, 2012). *Infants' perception of emotion from dynamic body movements*. Poster presented at the meeting of the International Society on Infant Studies, Minneapolis, Minnesota.
- Zieber, N., Kangas, A. & Bhatt, R.S. (June, 2012). *Is the head necessary to process body information in infancy?* Poster presented at the meeting of the International Society on Infant Studies, Minneapolis, Minnesota.
- Zieber, N., Kangas, A., Hoch, A. & Bhatt, R.S. (June, 2012) *Infants' emerging body knowledge*. Poster presented at the meeting of the International Society on Infant Studies, Minneapolis, Minnesota.
- Kangas, A., Zieber, N. & Bhatt, R.S. (June, 2012). *Processing of second-order facial information in infancy: The role of external features*. Poster presented at the meeting of the International Society on Infant Studies, Minneapolis, Minnesota.

- Zieber, N. & Bhatt, R. (April, 2011). *Infants' discrimination of gender from dynamic point-light displays*. Poster presented at the meeting of the Society for Research in Child Development, Montreal, Quebec.
- Zieber, N. & Bhatt, R. (April, 2011). *The development of face expertise: The relationship between configural and holistic processing in infancy*. Poster presented at the meeting of the Society for Research in Child Development, Montreal, Quebec.
- Bhatt, R.S., Zieber, N., Hayden, A., & Kangas, A. (April, 2011). *Figural information is more salient than background information in infancy*. Poster presented at the meeting of the Society for Research in Child Development, Montreal, Quebec.
- Hayden, A., Kangas, A., Bhatt, R.S., & Zieber, N. (April, 2011). *The role of racial information in infant emotion processing*. Poster presented at the meeting of the Society for Research in Child Development, Montreal, Quebec.
- Kangas, A., & Bhatt, R. S. (April, 2011). *Emotion is a fundamental feature of faces that attracts attention at 3 months of age*. Poster presented at the meeting of the Society for Research in Child Development, Montreal, Quebec.
- Bhatt, R. S., Hayden, A., Kangas, A., Zieber, N., & Joseph, J. (March, 2010). *Gender is a fundamental characteristic of faces that engages infants' attention*. Presented at the International Conference on Infant Studies, Baltimore, Maryland.
- Hayden, A., & Bhatt, R. S. (March, 2010). *Emotion is a fundamental feature for infants: Evidence of salience and perceptual asymmetry at 9 months*. Presented at the International Conference on Infant Studies, Baltimore, Maryland.
- Zieber, N. & Bhatt, R. (March, 2010). *Is the head necessary for body representation in infancy?* Presented at the International Conference on Infant Studies, Baltimore, Maryland.
- Kangas, A. & Bhatt, R. S (March, 2010). *Organization based on part structure in infancy*. Presented at the International Conference on Infant Studies, Baltimore, Maryland.
- Zieber, N., Bhatt, R. S., & Hayden, A. (April, 2009). *Body representation in the first year of life*. Presented at the meeting of the Society for Research in Child Development, Denver, Colorado.
- Hayden, A., Zieber, N., & Bhatt, R. S. (April, 2009). *Race-based perceptual asymmetries underlying face processing in infancy*. Presented at the meeting of the Society for Research in Child Development, Denver, Colorado.
- Kangas, A., Bhatt, R. S., Hayden, A., & Quinn, P. C. (April, 2009). *Grouping of elements generalizes across Gestalt grouping principles: Evidence for a perceptual unitization process in infancy*. Presented at the meeting of the Society for Research in Child Development, Denver, Colorado.

- Bhatt, R. S., Hayden, A., Zieber, N., Kangas, A., & Joseph, J. E. (April, 2009). *Infants' attention to race, emotion, and gender information in faces*. Presented at the Face preconference of the meeting of the Society for Research on Child Development, Denver, Colorado.
- Bhatt, R. S., Hayden, A., & Kangas, A. (March, 2008). *The relation between configural and holistic processing in infancy*. Presented at the International Conference on Infant Studies, Vancouver, Canada.
- Hayden, A., & Bhatt, R. S. (March, 2008). *Parts, cavities and the development of object representation*. Presented at the International Conference on Infant Studies, Vancouver, Canada.
- Hayden, A., Zieber, N., & Bhatt, R. S. (March, 2008). *Infants' sensitivity to configural information in human male and monkey faces*. Presented at the International Conference on Infant Studies, Vancouver, Canada.
- Quinn, P. C., & Bhatt, R. S. (March, 2008). *Perceptual grouping transfers across organizing principles in 6-to 7-month-old infants*. Presented at the International Conference on Infant Studies, Vancouver, Canada.
- Hayden, A., Bhatt, R. S., & Joseph, J. E. (April, 2007). *The other-race effect in infancy: evidence using a morphing technique*. Presented at the meeting of the Society for Research in Child Development, Boston, Massachusetts.
- Hayden, A., Bhatt, R. S., & Quinn, P. C. (April, 2007). *Common region as a perceptual organizational principle in infancy*. Presented at the meeting of the Society for Research in Child Development, Boston, Massachusetts.
- Gathers, A. D., Bhatt, R. S., Corbly, C. R., Farley, A. B., & Joseph, J. E. (August, 2006). *Anatomical narrowing without categorical specialization: Developmental changes in brain activity during face and object processing in 5- to 11-year-olds and adults*. Presented at the meeting of the International Society for Developmental Neuroscience, Alberta, Canada.
- Bertin, E., & Bhatt, R. S. (June, 2006). *Five- and nine-month-olds' memory capacity for faces*. Presented at the International Conference on Infant Studies, Kyoto, Japan.
- Hayden, A., Bhatt, R. S., & Quinn, P. C. (November, 2005). *The development of sensitivity to common region as a perceptual organizational principle*. Presented at the meeting of the Psychonomic Society, Toronto, Canada.
- Reed, A., Hayden, A., & Bhatt, R. S. (April, 2005). *Expectancy-based behavior in infancy: Convergent evidence using a new procedure*. Presented at the meeting of the Society for Research in Child Development, Atlanta, Georgia.

- Hayden, A., Bhatt, R. S., & Quinn, P. C. (April, 2005). *Luminance but not shape similarity dominates uniform connectedness as a perceptual organizational cue in infancy*. Presented at the meeting of the Society for Research in Child Development, Atlanta, Georgia.
- Reed, A., Hayden, A., Bertin, E., & Bhatt, R. S. (April, 2005). *Face processing in infancy: Further evidence of sensitivity to second-order relational information*. Presented at the meeting of the Society for Research in Child Development, Atlanta, Georgia.
- Bhatt, R. S., & Bertin, E. (July, 2004). *The Thatcher illusion and face processing in infancy*. Presented at the conference of the International Society for the Study of Behavioral Development, Ghent, Belgium.
- Bertin, E., & Bhatt, R. S. (May, 2004). *Visual short-term memory capacity between 3 and 9 months of age*. Presented at the International Conference on Infant Studies, Chicago, Illinois.
- Bhatt, R. S., Bertin, E., & Hayden, A. (May, 2004). *Face processing in infancy: Developmental changes in the use of different kinds of relational information*. Presented at the International Conference on Infant Studies, Chicago, Illinois.
- Gathers, A. D., Bhatt, R. S., Corbly, C. R., Liu, X., & Joseph, J. E. (October, 2004). *Developmental changes in neural correlates for upright and inverted faces*. Presented at the 34<sup>th</sup> Annual Conference of the Society For Neuroscience, San Diego, California.
- Gathers, A. D., Bhatt, R. S., & Joseph, J. E. (April, 2004). *Face and object processing across development: A structural similarity mechanism*. Presented at the meeting of the Cognitive Neuroscience Society, 11, Program No. D24. San Francisco, California.
- Gathers, A. D., Bhatt, R. S., Corbly, C. R., Farley, A. B., Foldes, S., & Joseph, J. E. (June, 2004). *A developmental fMRI investigation of the neural correlates of object and face recognition*. Presented at the meeting of the Organization for Human Brain Mapping Conference, Budapest, Hungary.
- Bhatt, R. S., & Bertin, E. (2003, November). *Developmental changes in face processing during the first half year of life*. Presented at the meeting of the Psychonomic Society, Vancouver, Canada.
- Bhatt, R. S., & Bertin, E. (2002, April). *Face processing in infancy: Evidence of sensitivity to second-order relational information*. Presented at the International Conference on Infant Studies, Toronto, Canada.
- Bertin, E., & Bhatt, R. S. (2002, April). *Three-month-olds' sensitivity to orientation cues in the 3-D depth plane*. Presented at the International Conference on Infant Studies, Toronto, Canada.
- Bhatt, R. S., Quinn, P. C., Chia, S., & Bertin, E. (2001, April). *The use of form similarity as a Gestalt organizing principle in infancy: Further evidence of a developmental change*.



- Presented at the meeting of the Society for Research in Child Development, Minneapolis, Minnesota.
- Bertin, E., & Bhatt, R. S. (2001, April). *Stimulus heterogeneity, similarity, and object segregation in infancy*. Presented at the meeting of the Society for Research in Child Development, Minneapolis, Minnesota.
- Bhatt, R. S., & Bertin, E. (2000, July). *Attentional engagement by 3-D cues in infancy*. Presented at the International Conference on Infant Studies, Brighton, United Kingdom.
- Quinn, P. C., & Bhatt, R. S. (2000, July). *Development of the use of form similarity as a Gestalt grouping principle in 3- to 7-month-old infants*. Presented at the International Conference on Infant Studies, Brighton, United Kingdom.
- Bertin, E., & Bhatt, R. S. (2000, July). *Differences in featural versus conjunction textural processing in infancy: A demonstration and a test of a similarity account of the differences*. Presented at the International Conference on Infant Studies, Brighton, United Kingdom.
- Bhatt, R. S., Tameika, T., & Bertin, E. (1999, November). *A similarity account of featural versus binding information differences in memory tasks*. Presented at the meeting of the Psychonomic Society, Los Angeles, CA.
- Bhatt, R. S. (1999, April). *Infants' sensitivity to 3-D orientation cues in static images*. Presented at the meeting of the Society for Research in Child Development, Albuquerque, New Mexico.
- Bertin, E., & Bhatt, R. S. (1999, April). *Developmental differences in attentional engagement in infancy*. Presented at the meeting of the Society for Research in Child Development, Albuquerque, New Mexico.
- Bhatt, R. S., Gilbert, J. L., Dutton, L. L., & Waters, S. E. (1998, April). *Infants' perception of 3-D information in static images*. Presented at the International Conference on Infant Studies, Atlanta, Georgia.
- Bertin, E., & Bhatt, R. S. (1998, April). *Infants' perception of textural changes induced by features and feature conjunctions*. Presented at the International Conference on Infant Studies, Atlanta, Georgia.
- Bhatt, R. S. (1997, November). *Children's memory development: The binding problem*. Presented at the meeting of the Psychonomic Society, Philadelphia, Pennsylvania.
- Waters, S. E., & Bhatt, R. S. (1997, May). *Three-dimensional form perception in early infancy*. Presented at the meeting of the Midwestern Psychological Association, Chicago, Illinois.

- Bhatt, R. S. (1997, April). *Determinants of memory modification in infancy: The strength of the interfering experience*. Presented at the meeting of the Society for Research in Child Development, Washington, D. C.
- Quinn, P. C., & Bhatt, R. S. (1996, April). *Convergent evidence for visual pop-out in young infants*. Presented at the International Conference on Infant Studies, Providence, Rhode Island
- Bhatt, R. S., Wilk, A. C., & Rovee-Collier, C. (1996, April). *Development of categorization based on feature relations*. Presented at the International Conference on Infant Studies, Providence, Rhode Island.
- Wilk, A. C., Bhatt, R. S., & Rovee-Collier, C. (1995, March). *Correlated attributes and categorization in infancy*. Presented at the meeting of the Society for Research in Child Development, Indianapolis, Indiana.
- Hartshorn, K., Rovee-Collier, C., & Bhatt, R. S. (1994, November). *Operant learning and retention of 6-month-olds*. Presented at the meeting of the International Society of Developmental Psychobiology, Islamorada, FL.
- Bhatt, R. S., & Rovee-Collier, C. (1994, June). *Delayed object recognition in infancy: Memory for features versus feature relations*. Presented at the International Conference on Infant Studies, Paris, France.
- Hartshorn, K. M., Ghumman, M., Bhatt, R. S., & Rovee-Collier, C. (1994, April). *Continuities in memory development over the first year of life*. Presented at the meeting of the Eastern Psychological Association, Providence, RI.
- Bhatt, R. S., Earley, L. A., & Rovee-Collier, C. (1993, November). *Perceptual changes in the contextual control of infant recognition*. Presented at the meeting of the International Society of Developmental Psychobiology, Alexandria, VI.
- Campos-de-Carvalho, M., Bhatt, R. S., Wondoloski, T., Klein, P., & Rovee-Collier, C. (1993, July). *Learning and memory at nine months*. Presented at the meeting of the International Society for the Study of Behavioural Development, Recife, Brazil.
- Bhatt, R. S. (1993, March). *Features and feature relations in infant memory*. Presented at the meeting of the Society for Research in Child Development, New Orleans, LA.
- Bhatt, R. S. (1992, October). *Feature correlations and delayed object recognition in infancy*. Presented at the meeting of the International Society of Developmental Psychobiology, Newport Beach, CA.
- Bhatt, R. S., & Rovee-Collier, C. (1991, November). *Perception of feature relations by 3-month-old infants*. Presented at the meeting of the International Society of Developmental Psychobiology, New Orleans, LA.

- Hankins, E. M., Bhatt, R. S., & Rovee-Collier, C. (1991, November). *Perceptual primitives and memory retrieval in infancy*. Presented at the meeting of the International Society of Developmental Psychobiology, New Orleans, LA.
- Bhatt, R. S., Weiner, S., Hankins, E. M., & Rovee-Collier, C. (1991, June). *Visual pop-out effects in early infancy*. Presented at the meeting of the American Psychological Society, Washington, D.C.
- Weiner, S., & Bhatt, R. S. (1991, April). *Texton discrimination and memory retrieval in 6-month-old infants*. Presented at the meeting of the Eastern Psychological Association, New York, NY.
- Wasserman, E. A., Tassinary, L. G., Bhatt, R. S., & Sayasenh, P. (1989, November). *Pigeons discriminate emotion and identify from photographs of the human face*. Presented at the meeting of the Psychonomic Society, Atlanta, GA.
- Bhatt, R. S., & Wasserman, E. A. (1989, May). *Selective attention, secondary generalization, and categorization in pigeons*. Presented at the meeting of the Midwestern Psychological Association, Chicago, IL.
- Bhatt, R. S., & Wasserman, E. A. (1988, November). *Effects of category size on categorization learning and generalization in pigeons*. Presented at the meeting of the Psychonomic Society, Chicago, IL.
- Bhatt, R. S., & Wasserman, E. A. (1987, November). *Acquisition and generalization of a four-category discrimination by pigeons*. Presented at the meeting of the Psychonomic Society, Seattle, WA.
- Wasserman, E. A., Hussar, K. A., & Bhatt, R. S. (1985, November). *Disentangling effects of delay of reinforcement from rate of reinforcement*. Presented at the meeting of the Psychonomic Society, Boston, MA.
- Wasserman, E. A., Bhatt, R. S., Neunaber, D. J., Chatlosh, D. L., & Dorfman, D. D. (1984, November). *Relative contiguity: Toward a time-based theory of operant behavior*. Presented at the meeting of the Psychonomic Society, San Antonio, TX.

## TEACHING

### COURSES TAUGHT

#### Undergraduate Courses:

Developmental Psychology--Univ. of Kentucky  
 Advanced Topics in Dev. Psych.: Early Cognitive Development --Univ. of Kentucky  
 Research Methods in Developmental Psychology--Univ. of Kentucky  
 Processes of Psychological Development--Univ. of Kentucky  
 Infant and Child Development--Rutgers Univ.  
 Introduction to Comparative Psychology--Univ. of Iowa  
 Experimental Psychology II: Human Learning & Memory (Lab. course)--Univ. of Iowa  
 Evaluation of Psychological Research--Graduate teaching assistantship--Univ. of Iowa  
 Introduction to Statistics in Psychology--Graduate teaching assistantship--Univ. of Iowa

#### Graduate Courses:

Proseminar in Developmental Psychology—Univ. of Kentucky  
 Topical Seminar in Psychology: Perceptual/Cognitive Development--Univ. of Kentucky  
 Proseminar in Sensation and Perception (Co-taught with Dr. Carswell)--Univ. of Kentucky  
 Advanced Seminar: Human Learning and Memory (Co-taught with Dr. Wright)--Univ. of Texas

### POSTDOCTORAL SCHOLAR SUPERVISION

- Alison Heck (2015- )

### PH.D. THESES SUPERVISION

#### Chair

- Hannah White (2018- ). The role of socioeconomic status, cortisol, and the home environment in the development of infants' attentional control.
- Rachel Jubran (2018- ). Body processing and attentional patterns in infancy.
- Alyson Hock (2015-2017). Typical and opioid-exposed infants' processing of spatial information in social and non-social stimuli.
- Ashley Kangas (2011-2013). Face processing in infancy: The use of configural information by young infants.
- Nicole Zieber (2010-2012). Infants' perception of emotion from dynamic body movements.
- Angela Hayden (2008-2010). The Role of racial information in infant face processing.
- Tameika Turner (2003-2006). Differences in dimensions of childhood functioning in children of preterm versus full term birth status.
- Evelin Bertin (2001-2003). Visual short-term memory capacity in infancy: Retention of object feature and conjunction information.
- Elliott Inman (1996-1997). Intrusions and omissions: Learning to classify errors.

#### Committee member

- Michael Lee
- Kristina Pattison
- Lauren Gilbert
- Jessica Van Neste

- Jessica Stagner
- Rebecca Reeves
- Tameika Turner
- Emily Klein
- Kelly DiGian
- Andrea Friedrich
- Rebecca Singer
- Ann Gathers (Anatomy & Neurobiology)
- Derek Mace
- Dorothy Marsil
- Brigitte Dorrance
- Darren Kaiser
- Russell Brown
- Sandy Segó
- Derek Campbell
- Karen Roper
- Lou Sherbourne

#### **PH.D. QUALIFYING EXAM COMMITTEE**

- Hannah White (Chair)
- Rachel Jubran (Chair)
- Alyson hock (Chair)
- Nicole Zieber (Chair)
- Ashley Kangas (Chair)
- Angela Hayden (Chair)
- Evelin Bertin (Chair)
- Andrea Reed (Chair)
- Jonathan Clark (Anatomy & Neurobiology)
- Travis Kent
- Michael Lee
- Will Seidelman
- Jennifer Laude
- Jessica Van Neste
- Jessica Stagner
- Holly Miller
- Rebecca Reeves
- Rebecca Singer
- Ann Gathers (Anatomy & Neurobiology)
- Emily Klein
- Kelly DiGian
- Andrea Friedrich
- Derek Mace
- Tricia Clement

- Susan Waters
- Janice Weaver
- Brigitte Cook
- Russell Brown
- Darren Kaiser
- Andrea Lonon
- Derek Campbell

## **M.A. THESES SUPERVISION**

### Chair

- Hannah White (2014-2016). Categorical perception of species in infancy.
- Rachel Jubran (2014-2016). Body part structure knowledge in infancy.
- Leah Oberst (2012-2014). Facial and body emotion recognition in infancy.
- Alyson Hock (2011-2013). The whole picture: Body posture recognition in infants.
- Nicole Zieber (2007-2009 ). Body representation during the first year of life.
- Ashley Kangas (2007-2009). Perceptual learning and face processing in infancy.
- Angela Hayden (2005-2006). Do infants process second-order relational information in faces?
- Tameika Turner (1998-1999). Life-span memory development: The binding problem.
- Susan Waters (1996-1997). Infants' perception of feature relations.

### Committee Member:

- Travis Kent
- Danielle Andrews
- Aaron Smith
- Lauren Gilbert
- Eric Haak
- Rebecca Reeves
- Jennifer Laude
- Jessica Stagner
- Joann Lianekhammy
- Cassandra Gibson
- Holly Miller
- Rebecca Singer
- Emily Klein
- Andrea Friedrich
- Benjamin Abroms
- Tricia Clement
- Carl Stevens
- Emily Neiman
- Brigitte Cook
- Scott Kinslow
- Scott Johnston
- Evelin Bertin (Special Education)

**GRADUATE STUDENT RESEARCH SUPERVISION**

- Hannah White (2014-)
- Rachel Jubran (2014-)
- Alyson Hock (2011-2017)
- Leah Oberst (2012-2014)
- Ashley Kangas (2007-2013)
- Nicole Zieber (2007- 2012)
- Angela Hayden (2004-2010)
- Andrea Reed (2003-2006)
- Emily Klein (2002-2004)
- Tameika Turner (1997-2002)
- Elliott Inman (1996-1997)
- Susan Waters (1995-1998)
- Annette Hatcher (1995-1996)
- Evelin Bertin (1997-2003)

**UNDERGRADUATE HONORS THESES SUPERVISION**

- Michelle Tam (2016-2017). Inequality in early social development: The effects of income on infants' processing of emotion in bodies
- Jordan Findley (2015-2016). Infants' processing of emotional body language.
- Rebekah Brewer (2014-2015). Infants' attention to emotion in dynamic faces.
- Rebecca Brewer (2014-2015). Infants' attention to emotion in faces.
- Kelly Powell (2010-2011). Infants' perception of emotion from body movements.
- Devin Lee (2010-2011). Gender is a fundamental feature of infant social processing.
- Jamie Rogers (2008-2009). Differences in the processing of relational information in own-race versus other-race faces in infancy.
- Tabitha Graves (2006-2007). The role of configural information in the development of body representation.
- Miranda Briscoe (2005-2006). The development of body representation in infancy.
- Julie Riehm (1999-2000). Mechanisms underlying developmental differences in attentional engagement.
- Sue-Ann Chia (1999-2000). Development of the use of form similarity as a Gestalt grouping principle in infancy.
- Jaime Gilbert (1997-1998). Developmental changes in attentional engagement in infancy.
- Laura Dutton (1997-1998). Parallel processing of information in infancy.
- Rhonda Powell (1996-1997). Complex memories and feature binding in children and adults.

**UNDERGRADUATE STUDENT RESEARCH SUPERVISION**

Approximately, 3-5 students a semester

**DEPARTMENT AND UNIVERSITY SERVICE**Departmental Committee Service

- Faculty Search Committee (Chair: 2000-2001; 2010-2011)
- Graduate Student Advisory Committee (1995-1996, 1998-1999)
- Computing Advisory Committee (Member: 1995-1996, Chair: 1996-1998)
- Cognitive, Neural, and Developmental Studies Recruitment Committee (Chair: 1997-1999)
- Clinical Faculty Search Committee (1996-1997)
- Colloquium Committee (1994-1995, 2000-2001)
- Curriculum Committee (2002-2010)
- Psychology Chair Search Committee (2006)
- Coordinator, Developmental Area (2009- )
- Personnel Committee (2010- )

University Committee Service

- Social Science Academic Area Advisory Committee to the Provost (2017- )
- Chair, College of Arts & Sciences Social Sciences Advisory Committee (2011-2013)
- Member, Institutional Review Board (2011)
- Social Science Computing Advisory Committee (1997-1999)
- University of Kentucky Undergraduate Research Program Advisory Board (1999-2002)
- University Faculty Senate (2006-2008)