

CURRICULUM VITAE**Jodie Marie Plumert**

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EDUCATION:

Kalamazoo College, 1985, Psychology, B.A.
University of Minnesota, 1990, Child Psychology, Ph.D. (Advisor: Herbert L. Pick, Jr.)

ACADEMIC AND PROFESSIONAL EXPERIENCE:

Associate Director, University Transportation Center (SAFER-SIM), College of Engineering, University of Iowa, 2016-present
Chair, Department of Psychological and Brain Sciences, College of Liberal Arts and Sciences, University of Iowa, 2011-2017
Associate Chair, Department of Psychology, University of Iowa, 2006-2011
Member, DeLTA Center, University of Iowa, 2007-present
Professor, University of Iowa, 2004-present
Visiting Associate Professor, Department of Psychology, University of Michigan, Spring 2003
Associate Professor, University of Iowa, 1996-2004
Assistant Professor, University of Iowa, 1990-1996

AWARDS, HONORS, SPECIAL RECOGNITIONS:

Regents Award for Faculty Excellence, 2016
Starch Faculty Fellow, 2015-
Fellow, Association for Psychological Science, 2011-
Collegiate Fellow, College of Liberal Arts and Sciences, University of Iowa, 2010-15
Fellow, American Psychological Association (Division 7), 2006-
University of Iowa Faculty Scholar Award, 2000-2003
University of Minnesota Graduate School Doctoral Dissertation Fellowship, 1988-89
Trainee Fellowship: Center for Research in Learning, Perception, and Cognition; University of Minnesota (NICHD T32-07151), 1985-88
Magna cum laude, Kalamazoo College
Phi Beta Kappa

PROFESSIONAL ORGANIZATIONS:

American Psychological Association
Association for Psychological Science

Society for Research in Child Development
 Psychonomic Society
 Cognitive Development Society
 Society for Advancement of Violence and Injury Research

SERVICE

DEPARTMENTAL SERVICE:

Director of Graduate Studies, 2018-
 Chair, Department of Psychological and Brain Sciences, 2011-2017
 Associate Chair, Department of Psychology, 2006-2011
 Coordinator of the Developmental Science Graduate Training Area, 1996-2004, Fall, 2006

Standing Departmental Committees:

Chair's Consulting Group, 2006-2011, 2018-
 Committee on Undergraduate Studies, 1991-93, 2006-2011
 Committee on Graduate Studies, 1996-2004, Fall, 2006
 Faculty Advisory Committee, 1993-1996, 2005-06

Ad-hoc Departmental Committees:

Faculty Search Committee in Developmental Psychology, 1995-96
 Faculty Search Committee in Developmental Psychology, Chair, 1996-97
 Faculty Search Committee in Cognition and Perception, 1997-98
 Faculty Search Committee in Developmental Psychology, 1998-99
 Faculty Search Committee in Developmental Psychology, Chair, 1999-2000
 Courseload Task Force Committee, 1999
 Promotion and Tenure Committee for Susan Lutgendorf, 2000-2001
 Promotion and Tenure Committee for John Freeman, 2001-2002
 Faculty Search Committee in Developmental Psychology, 2001-02
 Faculty Search Committee in Developmental Psychology, Chair, 2003-2004
 Diversity Committee, 2004-2006
 Faculty Search Committee in Cognition and Perception, 2006-07
 Promotion and Tenure Committee for Scott Robinson, 2006-2007
 Promotion and Tenure Committee for Shaun Vecera, 2006-2007
 Promotion and Tenure Committee for Pamela Keel, Chair, 2007-2008
 Promotion and Tenure Committee for Larissa Samuelson, Chair, 2008-2009
 Faculty Search Committee in Behavioral & Cognitive Neuroscience, 2009-2010
 Grants Administrator Review Committee for Dana Lange, 2010
 Grants Administrator Search Committee, 2010
 Psychology Departmental Administrator Search Committee, 2012
 Psychology Grants Administrator Search Committee, 2013
 Department Restructuring Committee, 2015
 Psychology Building Committee, 2010-2017
 Faculty Search Committee in Developmental Psychology, 2016-17
 Psychological and Brain Sciences Diversity Committee, 2019

Faculty Search Committee in Learning & Plasticity, 2018-19

Faculty Search Committee in Clinical Science, 2019-20

COLLEGIATE SERVICE:

Faculty Assembly, 2002-2006

Faculty Assembly Diversity Committee, 2004-2006, Chair, 2005-2006

College of Liberal Arts and Sciences, New Faculty Orientation, Research Funding, 2005-2010, 2016

Promotion and Tenure Committee for Warren Darling (Integrative Physiology), 2006-2007

CLAS Collegiate Consulting Group for Promotion and Tenure, 2006-2008

Promotion and Tenure Committee for Carol Coohy (School of Social Work), 2009-2010

College of Liberal Arts and Sciences Undergraduate Educational Policy Committee, 2009-2011

College of Liberal Arts and Sciences Self Study Committee, 2012-13

College of Liberal Arts and Sciences DEO Advisory Group to the Dean, 2016-2017

UNIVERSITY SERVICE:

Opportunity at Iowa Review Committee, 1996

Ida Beam Selection Committee, 2004, 2005

Faculty Scholar Award review committee, 2005, 2007

Obermann Center for Advanced Studies Advisory Committee, 2005-2008, Chair, 2007-2008

Aging Mind and Brain Initiative (AMBI), Executive Committee, 2011-2019

Iowa Neuroscience Institute Director Search, Carver College of Medicine, 2015-2016

Faculty Council Administrative Retreat, DEO Panel Presentation, August 15, 2016

Department of Psychiatry Chair Search, Carver College of Medicine, 2017-2018

Regents Award for Faculty Excellence Review Committee, 2018

Faculty Perception of Administrator Review Committee, NADS, College of Engineering, 2019

DeLTA Center Executive Committee, 2019-

Carver College of Medicine Review Committee (Chair), 2019

PROFESSIONAL SERVICE

Editorships:

Journal of Experimental Child Psychology (Associate Editor, 2007-2010)

Editorial Boards:

Spatial Cognition and Computation (2019-present)

Journal of Experimental Psychology: Applied (2013-present)

Journal of Experimental Child Psychology (2010-present)

Child Development (2003-2006)

Executive Boards:

APA Division 7 (2004-2007)

Secretary (2004-2007)

Fellows Committee (2005)

Dissertation Award Committee (2005-2006, 2006-2007)

Journal Reviewing:

Child Development

Developmental Psychology

Cognitive Development

Memory

<i>International Journal of Behavioural Development</i>	<i>Developmental Review</i>
<i>Journal of Experimental Psychology: General</i>	<i>Journal of Memory and Language</i>
<i>Merrill-Palmer Quarterly</i>	<i>Memory & Cognition</i>
<i>Journal of Experimental Child Psychology</i>	<i>Journal of Comparative Psychology</i>
<i>British Journal of Developmental Psychology</i>	<i>Journal of Cognition and Development</i>
<i>Developmental Psychobiology</i>	<i>Cognitive Processing</i>
<i>Journal of Applied Developmental Psychology</i>	<i>Canadian Psychology</i>
<i>Journal of Child Language</i>	<i>Journal of Environmental Psychology</i>
<i>Journal of Pediatric Psychology</i>	<i>Transportation Research C</i>
<i>Current Directions in Psychological Science</i>	<i>Attention, Perception, & Psychophysics</i>
<i>Spatial Cognition & Computation</i>	<i>Psychological Science</i>
<i>Journal of Experimental Psychology: HPP</i>	<i>Journal of Experimental Psychology: Applied</i>
<i>Transactions on Applied Perception</i>	<i>PLOS One</i>
<i>Cognitive Psychology</i>	

Book Reviewing:

<i>MIT Press</i>	<i>Lawrence Earlbaum Associates</i>
<i>Prentice-Hall</i>	<i>Worth Publishers</i>

Grant Reviewing:

Ad-hoc reviewer for National Science Foundation: 1995, 1999, 2010, 2011, 2019
 Ad-hoc panel member of the National Institutes of Health HUD-1: 1999
 Israel Science Foundation: 2003
 Site visit reviewer for National Science Foundation Science of Learning Center: 2004, 2013, 2014, 2015
 Panelist for National Science Foundation: 2005, 2007
 Canada Council for the Arts, reviewer for Killam Research Fellowship, 2005
 National Science Foundation, Developmental & Learning Sciences, College of Reviewers, 2013-2018

Reviewing for Professional Meetings:

Division 7 (Developmental Psychology) reviewer of submissions to the 1996 annual convention of the American Psychological Association

Reviewer of submissions to the 1997, 1999, 2001, 2003, 2005, 2007, and 2011 Biennial Meeting of the Society for Research in Child Development

Reviewer of submissions to the 2004 Meeting of the Cognitive Science Society

Reviewer of submissions to the 2005 Meeting of the Cognitive Science Society

Reviewer of submissions to the 2018 Symposium on Applied Perception

SCHOLARSHIP

REFEREED PUBLICATIONS:

O'Neal, E. E., Jiang, Y., Brown, K., Kearney, J. K., & Plumert, J. M. (in press). How does crossing roads with friends impact risk taking in young adolescents and adults? *Journal of Pediatric Psychology*.

O'Neal, E. E., & Plumert, J. M. (2019). Do mother-child conversations about safety differ in middle- and low-income families? *Journal of Injury and Violence Research, 11*, 171-178.

Plumert, J. M., Hund, A. M., & Recker, K.K. (2019). Is scaling up harder than scaling down? How children and adults visually scale distance from memory. *Cognition, 185*, 39-48.

Jiang, Y., O'Neal, E. E., Rahimian, P., Yon, J.P., Plumert, J. M., & Kearney, J. K. (2019). Joint action in a virtual environment: Crossing roads with risky vs. safe human and agent partners. *IEEE Transactions on Visualization and Computer Graphics, 25*, 2886-2895. DOI: [10.1109/TVCG.2018.2865945](https://doi.org/10.1109/TVCG.2018.2865945)

Lorenz, M. G., & Plumert, J. M. (2019). Mother-child communication about relative proximity to a landmark: What role does prototypicality play? *Journal of Experimental Child Psychology, 178*, 41-59.

Plumert, J. M. (2018). *Studying the perception-action system as a model system for understanding development*. Edited volume in J. Benson (Series Ed.) *Advances in Child Development and Behavior: Vol 55*, Cambridge, UK: Elsevier.

Plumert, J. M., & Kearney, J. K. (2018). Timing is almost everything: How children perceive and act on dynamic affordances. In J. M. Plumert (Vol. Ed.), *Studying the perception-action system as a model system for understanding development*. Edited volume in J. Benson (Series Ed.), *Advances in Child Development and Behavior: 55*. Cambridge, UK: Elsevier.

Rahimian, P., O'Neal, E., Plumert, J. M., and Kearney, J. K. (2018). Harnessing vehicle-to-pedestrian (V2P) communication technology: Sending traffic warnings to texting pedestrians. *Human Factors, 60* (6), 833-843.

Jiang, Y., O'Neal, E.E., Yon, J.P., Franzen, L., Rahimian, P., Plumert, J.P., and Kearney, J.K. (2018). Acting together: Joint pedestrian road crossing in an immersive virtual environment. *ACM Transactions on Applied Perception, 15* (2), Article 8, 13 pages. <https://doi.org/10.1145/3147884>

O'Neal, E. E., Jiang, Y., Franzen, L. J., Rahimian, P., Yon, J. P., Kearney, J. K., & Plumert, J. M. (2018). Changes in perception-action tuning over long time scales: How children and adults perceive and act on dynamic affordances when crossing roads. *Journal of Experimental Psychology: Human Perception and Performance, 44*, 18-26. <http://dx.doi.org/10.1037/xhp0000378>

Plumert, J. M., Franzen, L., Mathews, M. M., & Violante, C. (2017). Linking “what” and “where” information: How the strength of object categories influences children’s memory for location. *Journal of Experimental Child Psychology, 157*, 95-110.

O'Neal, E. E., Plumert, J. M., McClure, L. A., & Schwebel, D. C. (2016). The role of body mass index in child pedestrian injury risk. *Accident Analysis & Prevention, 90*, 29-35. doi.org/10.1016/j.aap.2016.02.001

Nikolas, M., Elmore, A., Franzen, L., O'Neal, E., Kearney, J. K., & Plumert, J. M. (2016). Risky bicycling behavior among youth with and without attention-deficit hyperactivity disorder. *Journal of Child Psychology and Psychiatry, 57*, 141-148. [doi:10.1111/jcpp.12491](https://doi.org/10.1111/jcpp.12491)

O'Neal, E., Plumert, J. M., & Peterson, C. (2016). Parent-child injury prevention conversations following a trip to the emergency department. *Journal of Pediatric Psychology, 41*, 256-264.

Rahimian, P., O'Neal, E. E., Yon, J. P., Franzen, L., Jiang, Y., Plumert, J. M., & Kearney, J. K. (2016). Using a virtual environment to study the impact of sending traffic alerts to texting pedestrians. *Proceedings of the 2016 IEEE-VR Conference*, 141-149.

Hilliard, C., O'Neal, E., Plumert, J., & Cook, S. W. (2015). Mothers modulate their gesture independently of their speech. *Cognition*, *140*, 89-94. doi.org/10.1016/j.cognition.2015.04.003

Plumert, J. M., & Kearney, J. K. (2014b). How do children perceive and act on dynamic affordances in crossing traffic-filled roads? *Child Development Perspectives*, *8*, 207-212. doi: 10.1111/cdep.12089

Grechkin, T., Plumert, J. M., & Kearney, J. K. (2014). Dynamic affordances in embodied interactive systems: The role of display and mode of locomotion. *IEEE Transactions on Visualization and Computer Graphics*, *20*, 596-605. doi: 10.1109/TVCG.2014.18.

Chihak, B. J., Grechkin, T. Y., Kearney, J. K., Cremer, J. F., & Plumert, J. M. (2014). How children and adults learn to intercept moving gaps. *Journal of Experimental Child Psychology*, *122*, 134-152. doi:10.1016/j.jecp.2013.12.006

Plumert, J. P., & Kearney, J. K. (2014a). Linking decisions and actions in dynamic environments: How child and adult cyclists cross roads with traffic. *Ecological Psychology*, *26*, 125-133. [special issue in honor of Herbert L. Pick, Jr.]. doi: 10.1080/10407413.2014.874933

O'Neal, E. E. & Plumert, J. M. (2014). Mother-child conversations about safety: Implications for socializing safety values in children. *Journal of Pediatric Psychology*, *39*, 481- 491. doi: 10.1093/jpepsy/jsu005

Plumert, J. M. (2013). In memoriam: Herbert L. Pick, Jr. (1930-2012). *Spatial Cognition & Computation*, *13*, 259-263.

Ziemer, C. J., Branson, M. J., Chihak, B. J., Kearney, J. K., Cremer, J.F., & Plumert, J. M. (2013). Manipulating perception versus action in recalibration tasks. *Attention, Perception, & Psychophysics*, *75*, 1260-1274.

Stevens, E., Plumert, J. M., Cremer, J. F., & Kearney, J. K. (2013). Preadolescent temperament and risky behavior: Bicycling across traffic-filled intersections in a virtual environment. *Journal of Pediatric Psychology*, *38*, 285-295.

Grechkin, T. Y., Chihak, B. J., Cremer, J. F., Kearney, J. K., & Plumert, J. M. (2013). Perceiving and acting on complex affordances: How children and adults bicycle across two lanes of opposing traffic. *Journal of Experimental Psychology: Human Perception & Performance*, *39*, 23-36.

Plumert, J. M., Haggerty, K., Mickunas, A., Herzog, L., & Shadrack, C. (2012). Mother-child communication about location: Giving and following directions for finding hidden objects. *Developmental Psychology*, *48*, 956-968.

Ziemer, C. J., Plumert, J. M., & Pick, A. D. (2012). To grasp or not to grasp: Infants' actions towards objects and pictures. *Infancy*, *17*, 479-497.

Nguyen, T. D., Ziemer, C. J., Grechkin, T., Chihak, B., Plumert, J. M., Cremer J. F., & Kearney, J. K. (2011). Effects of scale change on distance perception in virtual environments. *ACM Transactions on Applied Perception*, 8(4), 1-18.

Plumert, J. M., Kearney, J. K., Cremer, J. F., Recker, K. M., & Strutt, J. (2011). Changes in children's perception-action tuning over short time scales: Bicycling across traffic-filled intersections in a virtual environment. *Journal of Experimental Child Psychology*, 108, 322-337.

Babu, S., Grechkin, T., Chihak, B., Ziemer, C., Kearney, J., Cremer, J., & Plumert, J. (2011). An immersive virtual peer for studying social influences on child cyclists' road-crossing behavior. *IEEE Transactions on Visualization and Computer Graphics*, 17, 14-25.

Chihak, B. J., Plumert, J. M., Ziemer, C. J., Babu, S., Grechkin, T., Cremer, J. F., & Kearney, J. K. (2010). Synchronizing self and object movement: How child and adult cyclists intercept moving gaps in a virtual environment. *Journal of Experimental Psychology: Human Perception & Performance*, 36, 1535-1552.

Grechkin, T. Y., Nguyen, T. D., Plumert, J. M., Cremer, J. F., & Kearney, J. K. (2010). How does presentation method and measurement protocol affect distance estimation in real and virtual environments? *ACM Transactions on Applied Perception*, 7(4), Article 26.

Ziemer, C., Plumert, J. M., Cremer, J., & Kearney, K. (2009). Estimating distance in real and virtual environments: Does order make a difference? *Attention, Perception, & Psychophysics*, 71, 1095-1106.

Oakes, L. M., Newcombe, N. S., & Plumert, J. M. (2009). Are dynamic systems and connectionist approaches an alternative to "Good Old Fashioned Cognitive Development?" In J. P. Spencer, M. Thomas, & J. McClelland (Eds.), *Toward a unified theory of development: Connectionism and dynamic systems theory re-considered*. New York: Oxford University Press.

Recker, K. M., & Plumert, J. M. (2008). How do opportunities to view objects together in time influence children's memory for location? *Journal of Cognition and Development*, 9, 434-460.

Plumert, J. M. (2008). Children's thinking is not just about what's in the head: Understanding the organism and environment as a unified system. In R. V. Kail (Ed.), *Advances in Child Development and Behavior*, pp. 373- 417. San Diego, CA: Academic Press.

Plumert, J. M., & Spencer, J. (Eds.) (2007). *The emerging spatial mind*. New York: Oxford University Press.

Plumert, J. M., Hund, A. M., & Recker, K. M. (2007). Organism-environment interaction in spatial development: Explaining categorical bias in memory for location. In J. M. Plumert & J. Spencer (Eds.), *The emerging spatial mind*. New York: Oxford University Press.

Spencer, J. P., & Plumert, J. M. (2007). What makes thinking about development so hard? In J. M. Plumert & J. Spencer (Eds.), *The emerging spatial mind*. New York: Oxford University Press.

Plumert, J. M., & Nichols-Whitehead, P. (2007). Developmental differences in preferences for using color, size, and location information to disambiguate hiding places. *Journal of Cognition and Development*, 8, 427-454.

Recker, K. M., Plumert, J. M., Hund, A. M., & Reimer, R. (2007). How do biases in spatial memory change as children and adults are learning locations? *Journal of Experimental Child Psychology*, *98*, 217-232.

Plumert, J. M., Kearney, J. K., & Cremer, J. F. (2007). Children's road crossing: A window into perceptual-motor development. *Current Directions in Psychological Science*, *16*, 255-258.

Hund, A. M., & Plumert, J. M. (2007). What counts as "by?" Young children's use of relative distance to judge nearbyness. *Developmental Psychology*, *43*, 121-133.

Plumert, J. M., Kearney, J. K., Cremer, J. F., & Recker, K. (2005). Distance perception in real and virtual environments. *ACM Transactions on Applied Perception*, *2*, 216-233.

Hund, A. M., & Plumert, J. M. (2005). The stability and flexibility of spatial categories. *Cognitive Psychology*, *50*, 1-44.

Plumert, J. M., Kearney, J. K., & Cremer, J. F. (2004). Children's perception of gap affordances: Bicycling across traffic-filled intersections in an immersive virtual environment. *Child Development*, *75*, 1243-1253.

Kannass, K. N., Plumert, J. M., McDermott, J., Moore, B., & Durich, N. (2004). The role of the physical context in supporting young children's use of spatiotemporal organization in recall. *British Journal of Developmental Psychology*, *22*, 59-82.

Plumert, J. M. (2004). Accidents. In A. J. Christensen, R. Martin, & J. M. Smyth (Eds.), *Encyclopedia of Health Psychology*. New York: Kluwer Academic/Plenum Publishers.

Hund, A. M., & Plumert, J. M. (2003). Does information about what objects are influence children's memory for where objects are? *Developmental Psychology*, *39*, 939-948.

Schwebel, D. C., Binder, S. C., Sales, J. M., & Plumert, J. M. (2003). Is there a link between children's motor abilities and unintentional injuries? *Journal of Safety Research*, *34*, 135-141.

Plumert, J. M. (2003). Children's overestimation of their physical abilities: Links to injury proneness. In G. Savelsbergh, K. Davids, J. van der Kamp, & S. Bennett (Eds.), *Development of movement coordination in children: Applications in the field of ergonomics, health sciences and sport*. New York: Routledge.

Oakes, L. M., & Plumert, J. M. (2002). Variability in thirteen-month-old infants' touching patterns in the sequential-touching task. *Infant Behavior and Development*, *25*, 529-549.

Schwebel, D. C., Dawes, B. A., & Plumert, J. M. (2002). Using an injury diary to describe the ecology of children's daily injuries. *Journal of Safety Research*, *33*, 301-319.

Hund, A. M., Plumert, J. M., & Benney, C. (2002). Experiencing nearby locations together in time: The role of spatial-temporal contiguity in children's memory for location. *Journal of Experimental Child Psychology*, *82*, 200-225.

Hund, A. M., & Plumert, J. M. (2002). Delay-induced bias in children's memory for location. *Child Development*, *73*, 829-840.

Nichols-Whitehead, P., & Plumert, J. M. (2001). The influence of boundaries on young children's searching and gathering. *Journal of Cognition and Development, 2*, 367-388.

Plumert, J. M., Spalding, T. L., & Nichols-Whitehead, P. (2001). Preferences for ascending and descending hierarchical organization in spatial communication. *Memory & Cognition, 29*, 274-284.

Plumert, J. M., & Hund, A. M. (2001). The development of memory for location: What role do spatial prototypes play? *Child Development, 72*, 370-384.

Plumert, J. M., & Hawkins, A. M. (2001). Biases in young children's communication about spatial relations: Containment versus proximity. *Child Development, 72*, 22-36.

Schwebel, D. C., Plumert, J. M., & Pick, H. L. (2000). Integrating basic and applied developmental research: A new model for the twenty-first century. *Child Development, 71*, 222-230.

Schwebel, D. C., & Plumert, J. M. (1999). Longitudinal and concurrent relations between temperament, ability estimation, and accident proneness. *Child Development, 70*, 700-712.

Plumert, J. M., & Schwebel, D. C. (1997). Social and temperamental influences on children's overestimation of their physical abilities: Links to accident proneness. *Journal of Experimental Child Psychology, 67*, 317-337.

Plumert, J. M., & Strahan, D. (1997). Relations between task structure and developmental changes in children's use of spatial clustering strategies. *British Journal of Developmental Psychology, 15*, 495-514.

Oakes, L. M., Plumert, J. M., Lansink, J. M., & Merryman, J. D. (1996). Evidence for task-dependent categorization in infancy. *Infant Behavior and Development, 19*, 425-440.

Plumert, J. M. (1996). Young children's ability to detect ambiguity in descriptions of location. *Cognitive Development, 11*, 375-396.

Plumert, J. M., & Nichols-Whitehead, P. (1996). Parental scaffolding of young children's spatial communication. *Developmental Psychology, 32*, 523-532.

Plumert, J. M. (1995). Relations between children's overestimation of their physical abilities and accident proneness. *Developmental Psychology, 31*, 866-876.

Plumert, J. M., Carswell, C., DeVet, K., & Ihrig, D. (1995). The content and organization of communication about object locations. *Journal of Memory and Language, 34*, 477-498.

Plumert, J. M., Ewert, K., & Spear, S. J. (1995). The early development of children's communication about nested spatial relations. *Child Development, 66*, 959-969.

Plumert, J. M. (1994). Flexibility in children's use of spatial and categorical organizational strategies in recall. *Developmental Psychology, 30*, 738-747.

Plumert, J. M., Pick, H. L., Jr., Marks, R. A., Kintsch, A. S., & Wegesin, D. (1994). Locating objects and communicating about locations: Organizational differences in children's searching and direction-giving. *Developmental Psychology, 30*, 443-453.

Plumert, J. M. (1993). The development of children's spatial knowledge: Implications for geographic education. *Cartographic Perspectives*, 16, 9-18.

Craton, L. G., Elicker, J., Plumert, J. M., & Pick, H. L., Jr. (1990). Children's use of frames of reference in communication of spatial location. *Child Development*, 61, 1528-1543.

Sancilio, M. F. M., Plumert, J. M., & Hartup, W. W. (1989). Friendship and aggressiveness as determinants of conflict outcomes in middle childhood. *Developmental Psychology*, 25, 812-819.

REFEREED CONFERENCE PROCEEDINGS:

Mallaro, S., Rahimian, P., O'Neal, E. E., Plumert, J. M., & Kearney, J. K. (2017). A comparison of head-mounted displays vs. large-screen displays for an interactive pedestrian simulator. *Proceedings of the ACM Symposium on Virtual Reality Software and Technology*, Gothenburg, Sweden, 4 pages.

Jiang, Y., O'Neal, E. E., Franzen, L., Yon, J. P., Plumert, J. M., & Kearney, J. K. (2017). The influence of stereoscopic image display on pedestrian road crossing in a large-screen virtual environment. *Proceedings of the ACM Symposium on Applied Perception*, Cottbus, Germany.

Jiang, Y., O'Neal, E., Rahimian, P., Yon, J. P., Plumert, J. M., & Kearney, J. K. (2016). Action coordination with agents: Crossing roads with a computer-generated character in a virtual environment. *Proceedings of the ACM Symposium on Applied Perception*, 57-64.

Rahimian, P., Jiang, Y., Yon, J.P., Franzen, L., Plumert, J.M., & Kearney, J.K. (2015). Designing an immersive pedestrian simulator to study the influence of texting and cell-phone alerts on road crossing. *Proceedings of the Road Safety & Simulation International Conference*, Orlando, FL, 828-837.

O'Neal, E.E., Franzen, L., Yon, J.P., Kearney, J., Plumert, J.M. (October, 2015). How do immature movement timing skills put child pedestrians at risk for collisions with motor vehicles? *Proceedings of the Road Safety & Simulation International Conference*, Orlando, FL, 727-739.

Babu, S., Grechkin, T., Chihak, B., Ziemer, C., Cremer, J., Kearney, J., and Plumert, J. (March, 2009). A virtual peer for investigating social influences on children's bicycling. *Proceedings of the IEEE International Conference in Virtual Reality 2009*, Lafayette, Louisiana, pp. 91-98.

Chihak, B., Pick, H. L., Plumert, J., Ziemer, C., Cremer, J., & Kearney, J. (September, 2009). Optic flow and effort as cues for the perception of the rate of self-produced motion in VE. *Proceedings of the ACM International Symposium on Applied Perception in Graphics and Visualization*, Chania, Crete, Greece, p. 132.

Nguyen, T. D., Ziemer, C. J., Plumert, J. P., Cremer J. F., & Kearney, J. K. (September, 2009). Effects of scale change on distance perception in virtual environments. *Proceedings of the ACM International Symposium on Applied Perception in Graphics and Visualization*, Chania, Crete, Greece, pp. 27-34.

Grechkin, T., Babu, S., Ziemer, C., Chihak, B., Cremer, J., Kearney, J., & Plumert, J. (September, 2009). How does a virtual peer influence children's distance from the roadway when initiating crossing? *Proceedings of the ACM International Symposium on Applied Perception in Graphics and Visualization*, Chania, Crete, Greece, p. 129.

Plumert, J., Kearney, J., and Cremer, J. (2007) How does traffic density influence cyclists gap choices? *Proceedings of 2007 Int'l Conference on Road Safety and Simulation*, November, Rome.

Kearney, K. K., Grechkin, T., Cremer, J. F., & Plumert, J. M. (2006). Traffic generation for studies of gap acceptance. *Proceedings of the Driving Simulation Conference, DSC 2006*, Paris, France, 177-186.

Plumert, J. M., Kearney, J. K., and Cremer, J. F. (2004). Distance perception in real and virtual environments. *Proceedings of the 1st Symposium on Applied Perception in Graphics and Visualization*, August 7-8, Los Angeles.

NON-REFEREED PUBLICATIONS:

Plumert, J. M. (2002). Pointing the way: An interactionist perspective on spatial development. *Contemporary Psychology*, 47, 535-538. [Review of Newcombe, N., & Huttenlocher, J. (2000) *Making Space: The development of spatial representation and reasoning*]

Pick, H. L., Jr., Plumert, J. M., & Arterberry, M. E. (1987). *All-terrain vehicles and children: Perceptual-motor, cognitive, and social risk factors*. Report prepared for the Consumer Product Safety Commission (Contract No. CPSC-C-87-1289).

RESEARCH SUPPORT:

Extramural Grants Awarded:

“Using Simulation to Study Communication between Autonomous Vehicles and Vulnerable Road Users” Jodie Plumert (PI), Joseph Kearney (Co-PI). UI University Transportation Center, 6/1/19 – 12/31/20, \$80,000 in total costs (part of prime award, “Safety Research Using Simulation (SAFER-SIM),” awarded by the US Department of Transportation, Research and Innovative Technology Administration, Award No. 69A3551747131).

“Mobile Applications to Help Older Adults Make Safe Street-Crossing Decisions” Kyle Rector (PI), Jodie Plumert (Co-PI), Joseph Kearney (Co-PI). UI University Transportation Center, 6/1/18 – 12/31/19, \$50,000 in total costs (part of prime award, “Safety Research Using Simulation (SAFER-SIM),” awarded by the US Department of Transportation, Research and Innovative Technology Administration, Award No. 69A3551747131).

“Extended Evaluation of Training Programs to Accelerate Hazard Anticipation Skills in Novice Teen Drivers” Jodie Plumert (PI), Dan McGehee (Co-PI), Michelle Reyes (Co-PI), Elizabeth O’Neal (Co-PI), Shaun Vecera (Co-PI), Shawn Allen (Co-PI). UI University Transportation Center, 8/1/18 – 1/31/20, \$79,951 in total costs (part of prime award, “Safety Research Using Simulation (SAFER-SIM),” awarded by the US Department of Transportation, Research and Innovative Technology Administration, Award No. 69A3551747131).

“Evaluation of Training Programs to Accelerate Hazard Anticipation Skills in Novice Teen Drivers” Dan McGehee (PI), Jodie Plumert (Co-PI), Michelle Reyes (Co-PI), Elizabeth O’Neal (Co-PI), Shaun Vecera (Co-PI), Shawn Allen (Co-PI), Neil Lerner (Co-PI), Philip Kellman (Co-PI). AAA Foundation for Traffic Safety, 2/15/18 – 12/31/19, \$378,321 in total costs.

“Developing Connected Simulation to Study Interactions between Drivers, Pedestrians, and Bicyclists” Dan McGehee (PI), Joseph Kearney (Co-PI), Jodie Plumert (Co-PI), Chris Schwarz (Co-PI), Stephen Baek (Co-PI). DOT Federal Highway Administration, Broad Agency Announcement for Exploratory Advanced Research Program, 9/29/17 – 3/28/20, \$1,217,530 in total costs, Award No. 693JJ31750016.

“Safety Research Using Simulation (SAFER-SIM) University Transportation Center” Dawn Marshall (PI), Joseph Kearney (Co-PI), Jodie Plumert (Co-PI), Prime Award, US Department of Transportation, Research and Innovative Technology Administration, 11/5/16 – 9/30/21, \$7,084,500, Grant No. 69A3551747131.

“Using Simulation to Assess and Reduce Conflicts between Drivers and Bicyclists” Jodie M. Plumert (PI) and Joseph K. Kearney (Co-PI). UI University Transportation Center, 11/5/16 – 12/31/19, \$53,056 in total costs (part of prime award, “Safety Research Using Simulation (SAFER-SIM),” awarded by the US Department of Transportation, Research and Innovative Technology Administration, Award No. 69A3551747131).

“Multi-modal Distributed Simulation Combining Cars, Bicyclists, and Pedestrians” Joseph K. Kearney (PI) and Jodie M. Plumert (Co-PI) and. UI University Transportation Center, 11/5/16 – 11/4/18, \$53,056 in total costs (part of prime award, “Safety Research Using Simulation (SAFER-SIM),” awarded by the US Department of Transportation, Research and Innovative Technology Administration, Award No. 69A3551747131).

“Safety Benefits of Adaptive Headlight Systems for Drivers, Pedestrians, and Bicyclists” Chris Schwarz (PI), Joseph Kearney (Co-PI), Jodie Plumert (Co-PI), Toyota Motor Engineering & Manufacturing of North America, Inc., 11/1/16 – 7/30/19, \$658,890 in total costs (\$311,828 in total costs, Kearney & Plumert).

“Children's Use of Visual Information to Guide Selection and Timing of Motor Behaviors” Jodie M. Plumert (P.I.), Joseph K. Kearney (C.I.), & James F. Cremer (C.I.), National Science Foundation, 6/1/13 – 11/30/18, including supplement, \$574,827 in total costs (BCS-1251694).

“Shared Virtual Environments for Studying Social Influences on Risky Cycling and Pedestrian Behavior” Joseph K. Kearney (P.I.), Jodie M. Plumert (C.I.), Molly Nikolas, (C.I.), Geb Thomas (C.I.), & James Cremer (C.I.), National Science Foundation, 12/1/13 – 11/30/17, including REU supplement, \$388,337 in total costs (CNS-1305131).

“Do Prohibitive Warnings Improve Road-crossing Safety for Texting and Non-Texting Pedestrians?” Joseph K. Kearney (PI) & Jodie M. Plumert (Co-PI). UI University Transportation Center, 06/01/16 – 6/30/17, \$59,492 in total costs (part of prime award, “Safety Research Using Simulation (SAFER-SIM),” awarded by the US Department of Transportation, Research and Innovative Technology Administration, Prime DFDA No. 20.701, Award No. DTRT13-G-UTC53).

“An Investigation of Peer Influences on Risky Child and Adolescent Pedestrian Road Crossing” Jodie M. Plumert (PI) and Joseph K. Kearney (Co-PI). UI University Transportation Center, 01/01/15 – 6/30/17, \$84,835 in total costs (part of prime award, “Safety Research Using Simulation (SAFER-SIM),” awarded by the US Department of Transportation, Research and Innovative Technology Administration, Prime DFDA No. 20.701, Award No. DTRT13-G-UTC53).

“Using Connected Vehicle Technology to Deliver Timely Warnings to Pedestrians.” Joseph K. Kearney (PI) & Jodie M. Plumert (Co-PI). UI University Transportation Center, 06/01/14 – 6/30/16, \$35,929 in total costs (part of prime award, “Safety Research Using Simulation (SAFER-SIM),” awarded by the US Department of Transportation, Research and Innovative Technology Administration, Prime DFDA No. 20.701, Award No. DTRT13-G-UTC53).

“REU Supplement: “Advancing Virtual Environments as Laboratories for Studying Human Behavior” Joseph Kearney (P.I.), James Cremer (C.I.), & Jodie M. Plumert (C.I.), National Science Foundation, \$28,000 in total costs.

“Advancing Virtual Environments as Laboratories for Studying Human Behavior” Joseph Kearney (P.I.), James Cremer (C.I.), & Jodie M. Plumert (C.I.), National Science Foundation, 4/1/08 – 3/31/12, \$200,420 in total costs (CNS-0750677).

“How Do Child Cyclists Make Decisions About Crossing Traffic-Filled Intersections?” Jodie M. Plumert (P.I.), Joseph Kearney (C.I.), & James Cremer (C.I.), National Center for Injury Prevention and Control/ Centers for Disease Control and Prevention through the UI Injury Prevention Research Center (Corrine Peak-Asa, P.I.), 9/1/2007-8/31/2013, \$226,235 in total costs (R49/CE001167).

“How Do Immature Perceptual-Motor Skills Put Child Cyclists at Risk for Injury?” Jodie M. Plumert (P.I.), Joseph K. Kearney (C.I.), & James F. Cremer (C.I.), National Institute of Child Health and Human Development, 4/1/2006-3/31/2012, \$1,530,315 in total costs (R01-HD052875).

“REU Supplement: Memory for Location: Changes over Learning and Development” Jodie M. Plumert (P.I.), National Science Foundation, 8/11/05-8/10/06, \$17,000 in total costs (BCS-0538719).

“Memory for Location: Changes over Learning and Development” Jodie M. Plumert (P.I.), National Science Foundation, 8/1/04-7/31/09, \$320,000 in total costs (BCS-0343034).

“Temperament as a Risk Factor for Bicycling Injuries” Jodie M. Plumert (P.I.), Joseph Kearney (C.I.), & James Cremer (C.I.), National Center for Injury Prevention and Control/ Centers for Disease Control and Prevention through the UI Injury Prevention Research Center (Craig Zwerling, P.I.), 9/1/03-8/31/07, \$342,657 in total costs (R49/CCR721682).

“Instrumentation for a Virtual Environment Laboratory to Study Human Behavior” James Cremer (P.I.), Joseph Kearney (Co-P.I.), & Jodie Plumert (Co-P.I.), National Science Foundation, 9/15/01-9/14/04, \$100,000 (\$66,667 NSF; \$33,333 UI) in total costs (EIA-0130864).

“Virtual Environments as Laboratories for Studying Human Behavior: Modeling, Testing, and Validation” Joseph Kearney (P.I.), James Cremer (Co-P.I.), & Jodie Plumert (Co-P.I.), National Science Foundation, 10/1/00-9/30/03, \$354,174 in direct costs (IIS 00-02535).

“The Development of Memory for Object Locations” Jodie M. Plumert (P.I.), National Institute of Child Health and Human Development, 7/1/1998-6/30/2000, \$145,000 in total costs (R03-HD36761).

Intramural Grants Awarded:

“Exploring the Mechanisms of Bicycle Injury Risk Among Child Cyclists with Attention-Deficit Hyperactivity Disorder.” Molly A. Nikolas (P.I.), Jodie M. Plumert, (Co-I), Joseph K. Kearney (Co-I), & James F. Cremer (Co-I). University of Iowa Injury Prevention Research Center, 2012-13, \$22,500 (R49-CE002108 National Center for Injury Prevention and Control).

“An Investigation of Children’s Bicycling Safety Using an Interactive, Immersive Bicycling Simulator.” Jodie M. Plumert (P.I.), Joseph Kearney, & James Cremer, University of Iowa Injury Prevention Research Center, 1997-98, \$10,000. (R49-CCR703640 National Center for Injury Prevention and Control).

“A Mediational Model of Childhood Accidents.” Jodie M. Plumert (P.I.), University of Iowa Central Investment Fund for Research Enhancement (CIFRE), 1997, \$10,000.

“Developmental Factors Contributing to Childhood Injuries: Peer Influences on Children’s Overestimation of Their Physical Ability.” Jodie M. Plumert (P.I.), University of Iowa Spelman Rockefeller Child Research Seed Grant, 1995, \$5,000.

“The Development of Spatial Organizational Skills.” Jodie M. Plumert (P.I.), University of Iowa College of Liberal Arts Seed Grant, 1995, \$2,400.

“Developmental Risk Factors Contributing to Childhood Injuries.” Jodie M. Plumert (P.I.), University of Iowa Junior Faculty Seed Grant, 1993, \$10,000.

“The Early Development of Children’s Spatial Communication Skills.” Jodie M. Plumert (P.I.), University of Iowa Central Investment Fund for Research Enhancement (CIFRE), 1993, \$1,320.

PUBLIC OUTREACH AND ENGAGEMENT:

Recent Media Coverage:

Rahimian, O’Neal, Plumert, & Kearney (2018).

BBC World Service Health Check (<https://www.bbc.co.uk/programmes/w3cswjkl>)

O’Neal, Jiang, Franzen, Rahimian, Yon, Kearney, & Plumert (2017)

ABC’s Good Morning America (<http://abcnews.go.com/GMA/video/study-reveals-dangers-kids-crossing-street-46907073>)

O’Neal, Plumert, & Peterson (2016)

New York Magazine (<http://nymag.com/scienceofus/2015/10/girls-boys-get-different-talks-after-accidents.html#>)

Iowa Public Radio (<http://iowapublicradio.org/term/injury#stream/0>)

Yahoo Parenting (<https://www.yahoo.com/parenting/saying-be-careful-to-kids-actually-makes-a-201243853.html>)

O’Neal & Plumert (2014)

Huffington Post (http://www.huffingtonpost.com/2014/03/21/keeping-kids-safe_n_5008302.html)

Scientific American (<http://www.scientificamerican.com/podcast/episode/explain-danger/>)

Academic Minute (<http://academicminute.org/2014/07/jodie-plumert-university-of-iowa-understanding-safety/>)

Live Science (<http://www.livescience.com/44214-talking-about-child-safety.html>)

Recent Presentations to the Public and Lawmakers:

The scientist and public responsibility: Snail sex, sciences, and federal funding. Participant in panel discussion hosted by Café Scientifique of Iowa City, June 5, 2013.

Invited participation at *Hawkeye Caucus Day*, Iowa State Capitol, 2014.

Participant in panel discussion organized by UI IRB after screening of film, *Three Identical Strangers*, at Film Scene, Iowa City, IA, September 5, 2018.

Interview with Cristobal McKinney on why talking to the media is important, reported in IowaNow story, *UI faculty tout benefits of working with media to promote research*, Feb. 27, 2019: <https://now.uiowa.edu/2019/02/ui-faculty-tout-benefits-working-media-promote-research>.

Invited participation in public health fair on Capitol Hill, Washington DC (sponsored by the Coalition for Health Funding), representing the American Psychological Association (APA) and the Federation of Associations in Behavioral and Brain Sciences (FABBS), September 12, 2019.

One-minute with Iowa Professors, video showcasing research at the University of Iowa for dissemination on UI social media outlets: <https://youtu.be/tVj5Krmb844>

INVITED TALKS:

Plumert, J. M. *Virtual environments as laboratories for studying human behavior*. Invited presentation at the *e3iVR: Ethics in Investigational & Interventional Uses of Immersive Virtual Reality* conference. University of Wisconsin – Madison, April 26-27, 2017.

Plumert, J. M. *Timing is (almost) everything: How children and adults cross roads in an immersive virtual environment*. Invited talk at the University of Wisconsin – Madison, October 26, 2016.

Plumert, J. M., & Kearney, J. K. *Virtual worlds: A new frontier for developmental science*. In J. Plumert (Chair), *Designing indoor, outdoor, and virtual places for children*. Invited symposium at the 46th Annual Meeting of the Jean Piaget Society, Chicago, IL, June 11, 2016.

Plumert, J. M. *Forming and using spatial groups: It's not just about what's in the head*. Invited presentation at the workshop entitled, *Spatial Memory: Bayes and Beyond*. University of Richmond, May 16-17, 2013.

Plumert, J. M., & Kearney, J. K. *The reciprocity of decisions and actions: How child and adult cyclists cross multiple lanes of traffic*. Invited presentation at *Realism to relevance: An ecological approach to perception, action, and cognition. A Festschrift to honor the scientific and mentoring contributions of Herbert L. Pick, Jr.* Minneapolis, MN, June 6th, 2012.

Plumert, J. M. *Mother-child communication about location: Are mothers attuned to children's skills?* Invited presentation at the Midwestern Psychological Association, Chicago, May 3-5, 2012.

Plumert, J. M. *Anticipating when to cross: Negotiating traffic coming from opposing directions*. Invited presentation at *Getting Ahead in Cognitive Science: The Forward-looking Nature of Perception, Action, and Cognition Workshop* at Illinois State University, Bloomington, IL, June 24-26, 2011.

Plumert, J. M. *Remembering where things go: It's not just about what's in the child's head*. Colloquium presentation in the Department of Psychology, Colby College, Waterville, ME, September 25, 2009.

Plumert, J. M. *Developmental change in synchronizing self and object movement*. Invited presentation for the UI DeLTA Center workshop entitled, *Learning and Development in Perception-Action Coupling*, March 6, 2009.

Plumert, J. M. *Categorical bias in spatial memory: The case for emergence*. Space, Analogy, and Language Learning seminar presentation, Northwestern University, November 18, 2008.

Plumert, J. M. *The development of spatial communication: Understanding proximity relations*. Spatial Intelligence and Learning Center (SILC) seminar presentation, University of Chicago and Northwestern University, November 17, 2008.

Plumert, J. M. *How do immature perceptual and cognitive skills put child cyclists at risk for injury?* Colloquium presentation in the Department of Psychology, Illinois State University, Bloomington-Normal, IL February 15, 2008.

Plumert, J. M. *Remembering spatial categories: Changes over learning and development*. Cognitive Area brown bag presentation in the Department of Psychology, University of Illinois, Champaign-Urbana, November 2, 2007.

Plumert, J. M. Invited participant in workshop on “Perception of scale and spatial orientation.” University of Utah, June 22-23, 2007.

Plumert, J. M. *Remembering where things go: It's not just about what's in the child's head*. Developmental Area brown bag presentation in the Department of Psychology, University of Chicago, May 7, 2007.

Plumert, J. M. *How do immature perceptual and cognitive skills put child cyclists at risk for injury?* Colloquium presentation in the Department of Psychology, University of Alabama, Birmingham, November 8, 2006.

Plumert, J. M. (August, 2006). Crossing the disciplinary divide: Bringing together developmental psychology and computer science to study perceptual-motor development. In J. Plumert (Chair), *Developmental Science: An Interdisciplinary Approach to Understanding Development*. Invited symposium at the 2006 APA Convention, New Orleans, LA.

Plumert, J. M. *Crossing the road safely: Children on bicycles*. Saturday Scholars presentation, College of Liberal Arts and Sciences, University of Iowa, October 15, 2005.

Plumert, J. M. *An ecological approach to perceiving, acting, and thinking*. Department of Psychology colloquium in honor of promotion to full professor, October 29, 2004.

Plumert, J. M. *Using an interactive, immersive bicycling simulator to study children's road-crossing behavior*. Colloquium presentation at the University of Michigan Transportation Research Institute (UMTRI), April 17, 2003.

Plumert, J. M. *Categorical bias in memory for location: Continuity and change over development*. Colloquium presentation at the Department of Psychology, University of Michigan, March 17, 2003.

Plumert, J. M. *Using an immersive, interactive bicycling simulator to study children's bicycling behavior*. Presentation at the Interdisciplinary Human Factors Lecture Series, University of Iowa, February 7, 2002.

Plumert, J. M. *Biases in estimates of location: Weighting perceptually available and remembered information*. Colloquium presentation at the Institute of Child Development, University of Minnesota, September 24, 1999.

Plumert, J. M. *Subdividing locations into regions: The role of boundaries and prototypes*. Presentation at the Cognitive Science Workshop, "The Ins and Outs of Spatial Representation," Northwestern University, January 30-31, 1998.

Plumert, J. M. *The role of parental feedback in the development of children's communication skills*. Colloquium presentation at the Department of Speech Pathology and Audiology, University of Iowa, October 4, 1995.

Plumert, J. M. *The early development of children's spatial communication*. Colloquium presentation at the Department of Psychology, Grinnell College, April 14, 1995.

Plumert, J. M. *Continuities and discontinuities in the development of spatial communication*. Colloquium presentation at the Institute of Child Development, University of Minnesota, January 12, 1995.

Plumert, J. M. *Children's overestimation of their physical abilities: A risk factor for childhood injuries?* Colloquium presentation at the Institute of Agricultural Medicine and Occupational Health, University of Iowa, September 13, 1994.

Plumert, J. M. *The early development of spatial communication*. Colloquium presentation at the Department of Psychology, University of Illinois, Champaign-Urbana, December 4, 1992.

Plumert, J. M. *Strategies for remembering and identifying objects: 1001 uses of spatial information*. Colloquium presentation at the Department of Psychology, Arizona State University, March 8, 1991.

SYMPOSIA:

Plumert, J. M., & Kearney, J. K. (2019, March). The development of perception-action tuning: Implications for children's road-crossing safety. In N. Fears & J. Lockman (Chairs), *The development of visual-motor integration during activities of daily living: From research to translation*. Symposium at the 2019 Biennial Meeting of the Society for Research in Child Development, Baltimore, MD.

Plumert, J. M., & Kearney, J. K. (2015, March). How do children perceive and act on dynamic affordances when crossing roads? In N. Kassam-Adams (Chair), *Bridging the Basic-Applied Divide: The Interplay of Developmental Processes and Injury Risk*. Symposium conducted at the 2015 Biennial Meeting of the Society for Research in Child Development, Philadelphia, PA.

Plumert, J. M. (2008, September). How do child cyclists make decisions about crossing traffic-filled intersections? In J. Thomson (Chair), *Psychological competences underlying traffic behaviour and their development in children and adolescents*. Symposium presented at the 4th International Conference on Traffic & Transport Psychology, Washington, DC.

Plumert, J. M. (2007, March). Cutting it close: Developmental changes in children's perception of traffic gaps. In J. Plumert (Chair), *Crossing the road safely: A practical challenge for the developing perception-action-cognition system*. Symposium presented at the 2007 Biennial Meeting of the Society for Research in Child Development, Boston, MA.

Plumert, J. M., & Hund, A. M. (2003, April). Categorical bias in children's memory for location. In J. Plumert (Chair), *Multiple perspectives on the development of spatial categorization*. Symposium presented at the 2003 Biennial Meeting of the Society for Research in Child Development, Tampa, FL.

Plumert, J. M. (2003, April). How does information about *what* objects are influence children's memory for *where* objects are located? In J. Plumert and D. Uttal (Chairs), *Spatial cognition and the rest of cognition: Relations between spatial and nonspatial thinking*. Symposium presented at the 2003 Biennial Meeting of the Society for Research in Child Development, Tampa, FL.

Plumert, J. M., Kearney, J., & Cremer, J. (2002, April). Organizer of symposium entitled, *Virtual Environments as Tools for Studying Human Behavior*. The University of Iowa Obermann Center/Spelman Rockefeller Symposium.

Plumert, J. M., & Hund, A. M. (2001, October). A domain-general view of the development of categorization: Forming spatial groups. In J. P. Spencer (Chair), *The development of spatial cognition: A map to the child's mind?* Symposium conducted at the 2001 Meeting of the Cognitive Development Society, Virginia Beach, VA.

Plumert, J. M. (1999, April). Distortions in memory for location: What role do spatial prototypes play? In J. M. Plumert & J. P. Spencer (Chairs), *The development of spatial memory: What is remembered?* Symposium conducted at the 1999 Biennial Meeting of the Society for Research in Child Development, Albuquerque.

Plumert, J. M. (1998, August). The real reason to do research: An essay in honor of Herbert L. Pick, Jr. In L. Liben (Chair), *Symposium in honor of Herbert L. Pick, Jr.: An ecological approach to cognitive and perceptuomotor development*. Symposium conducted at the 1998 Convention of the American Psychological Association, San Francisco.

Plumert, J. M. (1995, April). Developmental change in communicating about hierarchical spatial relations. In J. Plumert (Chair), *Developmental change in the coding of spatial location*. Symposium conducted at the 1995 Biennial Meeting of the Society for Research in Child Development, Indianapolis.

Plumert, J. M. (1992, October). The development of children's spatial knowledge: Implications for cartographic education. In H. Castner (Chair), *Child development and cartographic education*. Symposium conducted at the meeting of the North American Cartographic Information Society, St. Paul, MN.

Plumert, J. M. (1991, April). Children's use of categorical and spatial clustering strategies for recalling objects. In J. Plumert & D. Uttal (Chairs), *Where do we go now? Understanding the development and use of spatial thinking in problem-solving contexts*. Symposium conducted at the 1991 Biennial Meeting of the Society for Research in Child Development, Seattle.

Elicker, J., Craton, L. G., & Plumert, J. M. (1987, April). Children's use of frames of reference in communication of spatial location. In S. Somerville (Chair), *Early spatial development: Children's use of frames of reference and coordinates*. Symposium conducted at the 1987 Biennial Meeting of the Society for Research in Child Development, Baltimore.

RECENT POSTER AND PAPER PRESENTATIONS:

O'Neal, E.E. & Plumert, J.M. (April, 2019). *Peer influences on risk taking when crossing roads*. Paper presented at the Biennial Meeting of the Society for Advancement of Violence and Injury Research, Cincinnati, OH.

Parr, M. N., Tang, H., & Plumert, J. M. (March, 2019). *Relations between Attention-Deficit Hyperactivity Disorder symptomatology and performance on simple and complex timing tasks*. Poster presented at the 2019 Biennial Meeting of the Society for Research in Child Development, Baltimore, MD.

Lorenz, M. G., Carlton, M. A., Tucker, N. A., & Plumert, J. M. (March, 2019). *Do close and far labels aid young children's coding of relative proximity?* Poster presented at the 2019 Biennial Meeting of the Society for Research in Child Development, Baltimore, MD.

O'Neal, E.E. & Plumert J.M. (November, 2018). *How do parents teach children to cross roads safely? A study of parent-child road-crossing in an immersive pedestrian simulator*. Paper presented at the Safety 2018 World Conference in Bangkok, Thailand.

Lorenz, M.G., Buksa, A., & Plumert, J.P. (July, 2018). *How absolute distance from a landmark impacts young children's understanding of relative proximity*. Poster to be presented at the 21st Biennial Meeting of the International Congress of Infant Studies, Philadelphia, PA.

Subramanian, L.D., O'Neal, E. E., Mallaro, S., Williams, B., Plumert, J.M., & Kearney, J.K. (January, 2018). *Pedestrian road crossing at night in an immersive simulator*. Oral presentation at the 97th Transportation Research Board annual meeting, Washington, D.C.

Rahimian, P., O'Neal, E. E., Zhou, S., Yon, J.P., Franzen, L., Plumert, J.M., & Kearney, J.K. (January, 2018). *Vehicle-to-pedestrian (V2P) communications technology: Do cell phone warnings improve road-crossing safety for texting pedestrians?* Oral presentation at the 97th Transportation Research Board annual meeting, Washington, D.C.

Lorenz, M.G., Williams, B.M., Buksa, A., & Plumert, J.M. (October, 2017). *Better close than far: How young children code relative proximity to a landmark*. Poster presented at the 10th Biennial Meeting of the Cognitive Development Society, Portland, OR.

Jiang, Y., O'Neal, E.E., Zhou, S., Plumert, J.M., & Kearney, J.K. (September, 2017). *Crossing roads with a computer-generated agent: Lasting effects on perception-action tuning*. Poster presented at the ACM Symposium on Applied Perception, Cottbus, Germany.

O'Neal, E.E., Zhao, S., & Plumert, J.M. (September, 2017). *Using an immersive virtual environment to study parent-child safety conversations in vivo*. Oral presentation given at the Biennial Meeting of the Society for Advancement of Violence and Injury Research, Ann Arbor, MI.

Lorenz, M. G., & Plumert, J. M. (April, 2017). *Giving and following directions: Mothers' sensitivity to young children's understanding of relative proximity*. Poster presented at the 2017 Biennial Meeting of the Society for Research in Child Development, Austin, TX.

O'Neal, E. E., Brown, K., Jiang, Y., Rahimian, P., Kearney, J. K., & Plumert, J. M. (April, 2017). *Parental influence on road-crossing safety*. Poster presented at the 2017 Biennial Meeting of the Society for Research in Child Development, Austin, TX.

O'Neal, E.E., Grechkin, T., Kearney, J.K., & Plumert, J.M. (December, 2016). *Crossing one-way vs. two-way simulated traffic: Differences in crash risk among adolescent bicyclists*. Oral presentation given at the 10th University Transportation Centers Spotlight Conference: Pedestrian and Bicycle Safety, Washington D.C.

O'Neal, E.E., Plumert, J.M., McClure, L.M., & Schwebel, D.C. (October, 2016). *The role of body mass index on childhood pedestrian injury*. Poster and poster pitch talk presented at the Safety 2016 World Conference, Tampere, Finland.

O'Neal, E.E. & Plumert, J.M. (October, 2016). *Proactive and reactive parent-child conversations about safety*. Poster presented at the Safety 2016 World Conference, Tampere, Finland.

Brown, K., Franzen, L., O'Neal, E., Kearney, J., & Plumert, J. (October, 2015). *Perceiving and acting on joint affordances: How children cross roads together*. Poster presented at the 9th Biennial Meeting of the Cognitive Development Society, Columbus, OH.

O'Neal, E.E., Franzen, L., Brown, K., Jiang, Y., Rahimian, P., Yon, J.P., Kearney, J.K., & Plumert, J.M. (October, 2015). *Learning to link decisions and actions: Developmental change in children's road-crossing skills*. Poster presented at the 9th Biennial Meeting of the Cognitive Development Society, Columbus, OH.

O'Neal, E.E., Franzen, L., Brown, K., Zeken, T., & Plumert, J.M. (March, 2015). *Income differences in mother-child conversations about safety*. Poster presented at the 2015 Biennial Meeting of the Society for Research in Child Development, Philadelphia, PA.

O'Neal, E.E., Grechkin, T., Franzen, L., Montgomery, Q., Kearney, J., & Plumert, J.M. (March, 2015). *Perceiving and acting on complex affordances: How children and adults cross one-way versus two-way traffic*. Poster presented at the 2015 Biennial Meeting of the Society for Research in Child Development, Philadelphia, PA.

Hilliard, C., O'Neal, E., Plumert, J., & Wagner Cook, S. (March, 2015). *Pointing gestures influence the learning of safety values in children*. Poster presented at the 2015 Biennial Meeting of the Society for Research in Child Development, Philadelphia, PA.

O'Neal, E.E., Franzen, L., Brown, K., Zeken, T., & Plumert, J.M. (March, 2015). *The potential impact of income on mother-child conversations about safety*. Poster presented at the Biennial Meeting of the Society for the Advancement of Violence and Injury Research, New Orleans, LA.

Hilliard, C., O'Neal, E., Plumert, J., & Cook, S.W. (November, 2013). *Gesturing helps parents communicate about safety*. Poster presented at the Boston University Conference for Language Development, Boston, MA.

O'Neal, Elizabeth E., Mathews, M. M., Bryant, C., & Plumert, J. M. (October, 2013). *Mother-child conversations about safety: Implications for causal understanding*. Poster presented at the 8th biennial meeting of the Cognitive Development Society, Memphis, TN.

Mathews, M. M., Franzen, L., & Plumert, J. M. (April, 2013). *What and where it is matters: How category knowledge affects children's memory for location*. Poster presented at the 36th Biennial Meeting of the Society for Research in Child Development, Seattle, WA.

Ziemer, C. J., Plumert, J. M., Chihak, B. J., Cremer, J. F., & Kearney, J. K. (November, 2012). *How does manipulating perception versus action impact recalibration?* Paper presented at the 53rd Annual Meeting of the Psychonomic Society. Minneapolis, MN.

Chihak, B. J., Plumert, J. M., Grechkin, T. Y., Cremer, J. F., & Kearney, J. K. (November, 2012). *Children benefit more than adults from variability of practice when learning to intercept moving gaps*. Poster

presented at the 53rd Annual Meeting of the Psychonomic Society. Minneapolis, MN.

Ziemer, C. J., Chihak, B., Plumert, J. M., Nguyen, T. D., Cremer, J. F., Kearney, J. K. (August, 2011). *Is perception-action coupling more malleable in virtual than in real environments?* Poster presented at the ACM International Symposium on Applied Perception in Graphics and Visualization, Toulouse, France.

Chihak, B. J., Grechkin, T., Ziemer, C. J., Mickunas, A. V., Winnike, K., Plumert, J. M., Kearney, J. K., & Cremer, J. F. (April, 2011). *How learning affects child cyclists' ability to intercept moving gaps in a virtual environment.* Poster presented at the 35th Biennial Meeting of the Society for Research in Child Development, Montreal, Canada.

Mickunas, A. V., Herzog, L. E., Shadrack, C., Haggerty, K. A., & Plumert, J. M. (April, 2011). *How do young children follow their mothers' directions for finding hidden objects?* Poster presented at the 35th Biennial Meeting of the Society for Research in Child Development, Montreal, Canada.

Ziemer, C. J., Chihak, B. J., Nguyen, T. D., Branson, M., Mickunas, A. V., Plumert, J. M., Cremer, J. F., & Kearney, J. K. (April, 2011). *Flexible recalibration of perception and action in children and adults.* Poster presented at the 35th Biennial Meeting of the Society for Research in Child Development, Montreal, Canada.

Mathews, M. M., Violante, C., McCartan, D., Ziemer, C. J., & Plumert, J. M. (April, 2011). *How does knowledge about what objects are influence memory for where objects are?* Poster presented at the 35th Biennial Meeting of the Society for Research in Child Development, Montreal, Canada.

Ziemer, C. J., Chihak, B. J., Nguyen, D. T., Branson, M., Cremer, J. F., & Plumert, J. M. (November, 2010). *Perceptual-motor recalibration of locomotion in children and adults using an immersive virtual environment.* Poster presented at the 51st annual meeting of the Psychonomics Society, St. Louis, MO.

Nguyen, T. D., Grechkin, T., Cremer, C. F., Kearney, J. K., & Plumert, J. M. (July, 2010). *Effect of measurement setting in judging traveled distance: Additional evidence for underestimation of distance in virtual environments.* Poster presented at the ACM International Symposium on Applied Perception in Graphics and Visualization, Los Angeles, CA.

STUDENT SUPERVISION

UNDERGRADUATE HONORS THESIS SUPERVISION:

Spear, Sara J. (1992). The early development of spatial communication.

Albright, M. (1993). Children's use of proximal and distal landmarks in their communication of spatial location.

Ihrig, D. (1996). Transfer of spatial clustering skills in searching and direction-giving.

Dunisch, D. (1996). Development of hierarchical organization in children's spatial directions.

Welborn, A. (1997). Young children's recognition of ambiguity.

McDermott, J.A. (1998). Relations between children's judgments about their physical abilities and motor coordination.

Dawes, S. (1998). Temperament, motor coordination, and overestimation of physical ability.

Rains, S. (1999). The relationship between children's temperament and performance on an interactive, immersive bicycling simulator.

Koschmeder, S. (1999). Children's judgments of traffic gap affordances on an interactive, immersive bicycling simulator.

Fraga, B. (2000). A comparison of distance estimates in real and simulated environments.

Benney, C. (2000). The role of temporal and spatial contiguity in children's memory for locations.

Howell, R. A. (2003). Changes in category bias of location memory over learning.

Neef, B. (2008). What role do objects play in children's memory for location?

Beery Rothmeyer, J. (2008). How do mothers give directions for finding objects to young children?

Herzog, L. E. (2010). Differences in young children's ability to understand frames of reference. [Thesis submitted to Kalamazoo College]

Violante, T. (2010). Developmental changes in spatial clustering as a function of object relatedness. [Thesis submitted to Kalamazoo College]

Franzen, L. J. (2013). What and where it is matters: How category knowledge affects memory for location.

Brown, Kathryne (2016). Perceiving and acting on joint affordances: How children cross roads together.

Zhou, Shiwen (2018). Parent-child conversations about road-crossing safety in an immersive pedestrian simulator.

M.A. THESIS SUPERVISION:

Ewert, K. (1993). A spatial perspective on the experience of time.

Jasper, J. D. (1993). Investigating the effects of rotation on words for males and females differing in spatial and verbal ability: A new methodological perspective. (co-supervised with I. Levin)

Carswell, C. (1993). A closer examination of hierarchical organization in the structure of spatial memory.

FIRST-YEAR PROJECT SUPERVISION:

Nichols-Whitehead, P. (1995). Young children's recognition of ambiguity in a nonverbal search task.

Hawkins, A. M. (1998). Young children's communication about containment and proximity.

Hund, A. M. (1998). The influence of boundaries on location memory.

Lee, J. (2002). Children's strategy use in a search task involving nested landmarks.

Koson, K. M. (2003). The role of object information in location memory.

Ziemer, C. (2006). Perceptual adaptation to environmental scale.

Haggerty, K. (2007). How do mothers communicate to young children about location?

O'Neal, E. (2012). Connecting the dots: Mother-child conversations about safety.

Parr, M. (2018). Relations between Attention-Deficit Hyperactivity Disorder symptomatology and performance on simple and complex timing tasks.

PH.D. THESIS SUPERVISION:

Ewert, K. (1998). Time judgments in uniform motion events: The effects of visual distance and visual speed information.

Schwebel, D. C. (2000). Relations between children's temperament, ability estimation, and unintentional injuries.

Hund, A. M. (2003). Developmental changes in the flexibility and stability of spatial category formation based on spatiotemporal experience.

Nichols-Whitehead, P. (2003). Informational biases, parent-child interactions, and the development of referential communication skills.

Recker, K. M. (2008). How do children use relative distance to scale?

Ziemer, C. (2012). Flexible recalibration of perception and action in children and adults.

O'Neal, E. (2018). Mother-child conversations about safety in children with and without ADHD.

Lorenz, M. (2019). Close, far, wherever they are: How young children code relative proximity to a landmark.