

Curriculum vitae

MICHAEL J. BERAN, PH.D.

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CONTACT INFORMATION:

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EDUCATIONAL HISTORY:

Oglethorpe University, Atlanta, Georgia

Degree:	B. A. (1995) <i>Cum Laude</i>
Major:	Psychology
Minor:	Political Studies

Georgia State University, Atlanta, Georgia

Degree:	M. A. (1997)
Program:	Psychological Sciences: Cognitive and Comparative Advisor: Duane M. Rumbaugh, Ph.D.

Degree:	Ph.D. (2002)
Program:	Cognitive Psychology Advisor: David A. Washburn, Ph.D.

CURRENT POSITIONS:

Associate Professor, Department of Psychology, Georgia State University (2015)
Associate Director, Language Research Center, Georgia State University (2012)

PAST PROFESSIONAL POSITIONS:

Research Associate I, Language Research Center, Georgia State University
(1999-2002)
Post-Doctoral Associate, Georgia State University (2003-2005)
Research Associate II, Language Research Center, Georgia State University
(2003-2005)
Duane M. Rumbaugh Fellow, Georgia State University (2002-2005)
Research Scientist I, Language Research Center, Georgia State University,
Atlanta (2005-2009)
Lecturer, Department of Psychology, Spelman College, Atlanta (2003-2007)
Lecturer, Department of Psychology, Georgia State University (2008-2010)
Senior Research Scientist, Language Research Center, Georgia State
University, Atlanta (2009-2015)

HONORS AND AWARDS:

Psi Chi, The National Honor Society in Psychology, 1995
Pi Gamma Mu, The International Honor Society in Social Science, 1997
Bailey Wade Memorial Award, Georgia State University, 1998
Griffith Memorial Award, Southern Society for Philosophy and Psychology, 1999
Outstanding Psychology Graduate Student Award, Georgia State Univ., 2002
Duane M. Rumbaugh Fellowship, Georgia State University, 2002-2005
National Academy of Sciences Travel Grant to the International Congress of
Psychology (sponsored by NSF), 2004
Young Psychologist Program, International Congress of Psychology, 2004
Brenda A. Milner Award, Division 6, American Psychological Association, 2005
APA Fellow – American Psychological Association, Division 6, 2007
Top Reviewer – *Behavioural Processes*, 2009
APA-USNC Mentoring Award for the International Congress of Psychology, 2012
President, Southern Society for Philosophy and Psychology, 2013-2014
B. F. Skinner Lecturer, Association of Behavior Analysts International, 2013
APA Fellow – American Psychological Association, Division 3, 2016

RESEARCH INTERESTS:

Comparative Learning and Behavior; Animal Cognition; Numerical
Cognition; Delay of Gratification; Self-Control; Metacognition; Memory;
Behavioral Primatology; Decision Making; Prospective Memory; Planning;
Speech Perception; Visual Illusions

FUNDING

Currently funded grants:

Beran, M. J., Church, B. A., Perdue, B. M., Parrish, A. E., & Smith, J. D. (2016-2020). Confidence judgments and metacognition in comparative and developmental perspective. \$587,087 (total costs) from the National Science Foundation.

Beran, M. J., & Parrish, A. E. (2016-2017). Metacognitive confidence judgments during solitary and group decision-making. \$19,525 from Georgia State University – Research Initiation Grant.

Beran, M. J., Brosnan, S. F., & Williamson, R. (2010-2016). The emergence of self-control: Comparative behavioral and neurobiological assessments. \$455,880 (total costs) from the National Institute of Child Health and Human Development – Grant P01HD060563.

Brosnan, S. F., Beran, M. J., & Wilson, B. (2011-2016). Primate and human social decision making. \$475,217 (total costs) from the National Science Foundation – Grant SES 1123897.

Brosnan, S. F., Beran, M. J., & Shapiro, S. J. (2014-2018). Expectations about reward outcomes. \$394,563 (total costs) from the National Science Foundation – Grant SES 1425216.

Previously funded grants:

Beran, M. J. & Smith, J. D. (2010-2016). Metacognition in comparative perspective. \$1,059,854 (total costs) from the National Institute of Child Health and Human Development. Grant R01HD061455.

Brosnan, S. F., Beran, M. J., Hopkins, W. D., & Goursaud, A. P. (2013-2016). The prosocial brain: Evolution of the human capacity for empathy, compassion and cooperation. \$743,661 (total costs) from the Templeton Foundation.

Smith, J. D., & Beran, M. J. (2010-2015). Metacognition in comparative perspective. \$224,640 (total costs) from the National Science Foundation – Grant BCS 0956993.

Beran, M. J., Einstein, G. O., Evans, T. A., & Klein, E. D. (2009-2013). Comparative investigations of future-oriented cognitive processes. \$400,523 (total costs) from the National Science Foundation – Grant BCS 0924811.

Brosnan, S. F., Beran, M. J., & Wilson, B. J. (2007-2011). Collaborative research: Understanding strategic economic interactions in monkeys, apes, and

humans. \$514,658 (total costs) from the National Science Foundation. – Grant SES 0729244.

Washburn, D. A., Frishkoff, G., Owren, M. J., Beran, M. J., & Brosnan, S. F. (2010-2011). An ERP study of monkey responses to speech sounds. \$32,000 (total costs) from the Language and Literacy Seed Grant Program, Georgia State University.

Beran, M. J. (2004-2010). Comparative studies of numerical cognition in human and nonhuman primates. \$200,200 (direct costs) from the National Institute of Child Health and Human Development. Grant P01HD-38051.

Smith, J. D., & Beran, M. J. (2006-2010). Metacognition as a precursor to self-consciousness: evolution, development, and epistemology. \$215,881 (total costs) from the National Science Foundation and European Science Foundation. Grant BCS – 0634662.

Williamson, R., Washburn, D. A., & Beran, M. J. (2008-2009). The role of source evaluation in the capacity to learn language. \$16,000 (total costs) from the Language and Literacy Seed Grant Program, Georgia State University.

Pate, J. L., Beran, M. J., & Rumbaugh, D. M. (1999-2004). The emergence of symbolic processing in human and nonhuman primates. \$139,641 (direct costs) from the National Institute of Child Health and Human Development. Grant PO1-HD38051.

PROFESSIONAL ASSOCIATIONS:

American Psychological Association,
Fellow – Division 3, Division 6
Member - Division 2

Association for Psychological Science
Psychonomic Society
Associate Member - 2003-2007
Full Member – 2008-2013
Fellow - 2014

Southern Society for Philosophy and Psychology
Comparative Cognition Society [Founding Member]
International Society for Comparative Psychology
International Association for Metacognition
Southeastern Psychological Association
American Society of Primatologists
Society for Computers in Psychology
Society for Judgment and Decision Making

PROFESSIONAL SERVICE:

Editor:

Animal Behavior and Cognition (2016 - present)

Board of Editors:

Cognition (2015 - present)

Frontiers in Comparative Psychology (2010 - present)

Journal of Comparative Psychology (2012 – present)

Comparative Cognition & Behavior Reviews (2015 - present)

Learning & Behavior (2015 - present)

Journal of Experimental Psychology: Animal Learning and Cognition (2013 - 2016)

Animal Cognition (2014 - present)

International Journal of Comparative Psychology (2006 - present)

PsycCRITIQUES (2014-2017)

The Psychological Record (2010 - 2012)

Journal of Experimental Psychology: Animal Behavior Processes (2007 – 2009)

Journal Reviewer (Ad hoc):

American Journal of Primatology; Animal Behavior and Cognition; Animal Behaviour; Animal Cognition; Animal Sentience; Behaviour; Behavioural Brain Research; Behavioural Processes; Biology Letters; Brain and Cognition; Cognition; Cognitive Development; Cognitive Science; Comparative Cognition and Behavior Reviews, Current Biology; Developmental Psychobiology; Developmental Science; Ethology; Experimental Brain Research; Hormones and Behavior; Infancy; International Journal of Comparative Psychology; International Journal of Primatology; Journal of Cognitive Neuroscience; Journal of Comparative Psychology; Journal of Ethology; Journal of Experimental Biology; Journal of Experimental Child Psychology; Journal of Experimental Psychology: Animal Behavior Processes; Journal of Experimental Psychology: General; Journal of Experimental Psychology: Learning, Memory, Cognition; Journal of the Experimental Analysis of Behavior; Learning and Behavior; Learning and Motivation; Nature Communications; PLoS Biology; PLoS One; Primates; Proceedings of the National Academy of Sciences; Proceedings of the Royal Society; Psychological Record; Psychonomic Bulletin & Review; Quarterly Journal of Experimental Psychology; Science; Scientific Reports; Social Forces; Social Justice Research

American Psychological Association

Division 3 Executive Council, Member-at-Large – 2014-2017

Division 6 Executive Council, Member-at-Large – 2011-2013

Division 3 Awards Chair – 2009

Southern Society for Philosophy and Psychology:

President - 2014

Treasurer - 2006-2012

Executive Council - 2004-2006

Chair, Annual Meeting Program, Psychology - 2005

Richard M. Griffith Memorial Award Committee - 2000, 2005, 2006

Webmaster – 2009-present

Southeastern Psychological Association:

Executive Committee Member-at-Large – 2013-2016

Outstanding Professional Paper Award Committee Chair - 2014

Early Career Research Award Committee Chair – 2014-2016

Annual Meeting Program Committee – 2006-2009, 2016

PUBLISHED BOOKS:

Agrillo, C., & Beran, M. J. (2013). *Numbers without language: Comparative psychology and the evolution of numerical cognition*. Frontiers Media SA. [e-Book]

Beran, M. J., Brandl, J., Perner, J., & Proust, J. (Eds.) (2012). *Foundations of Metacognition*. Oxford University Press.

PEER REVIEWED JOURNAL ARTICLES (Student authors in bold):

Agrillo, C., Parrish, A. E., & Beran, M. J. (2016). How illusory is the Solitaire illusion? Assessing the degree of misperception of numerosity in adult humans. *Frontiers in Psychology*, 7, 1663. doi: 10.3389/fpsyg.2016.01663

Beran, M. J. (2016). "Zeroing" in on mathematics in the monkey brain. *Learning & Behavior*, 44, 4-6.

Beran, M. J., Hopper, L. M., de Waal, F. B. M., Brosnan, S. F., & Sayers, K. (2016). Chimpanzees, cooking, and comparative psychology. *Learning & Behavior*, 44, 103-108.

Beran, M. J., Hopper, L. M., de Waal, F. B. M., Sayers, K., & Brosnan, S. F. (2016). Chimpanzee food preferences, associative learning, and the origins of cooking. *Learning & Behavior*, 44, 118-121.

Beran, M. J., **James, B. T., Whitham, W.,** & Parrish, A. E. (2016). Chimpanzees can point to smaller amounts of food to accumulate larger amounts but they still fail the reverse-reward contingency task. *Journal of Experimental Psychology: Animal Learning and Cognition*, *42*, 347-358.

Beran, M. J., Menzel, C. R., Parrish, A. E., Perdue, B. M., Sayers, K., Smith, J. D., & Washburn, J. D. (2016). Primate cognition: Attention, episodic memory, prospective memory, self-control, and metacognition as examples of cognitive control in nonhuman primates. *WIREs Cognitive Science*. doi: 10.1002/wcs.1397

Beran, M. J., & **Parrish, A. E.** (2016). Capuchin monkeys (*Cebus apella*) treat small and large numbers of items similarly during a relative quantity judgment task. *Psychonomic Bulletin & Review*, *23*, 1206-1213.

Beran, M. J., Perdue, B. M., Church, B. A., & Smith, J. D. (2016). Capuchin monkeys (*Cebus apella*) modulate their use of an uncertainty response depending on risk. *Journal of Experimental Psychology: Animal Learning and Cognition*, *42*, 32-43.

Beran, M. J., Perdue, B. M., Rossettie, M. S., **James, B. T., Whitham, W., Walker, B., Futch, S. E.,** & Parrish, A. E. (2016). Self-control assessments of capuchin monkeys with the rotating tray task and the accumulation task. *Behavioural Processes*, *129*, 68-79.

Beran, M. J., Rossettie, M. S., & **Parrish, A. E.** (2016). Trading up: Chimpanzees (*Pan troglodytes*) show self-control through their exchange behavior. *Animal Cognition*, *19*, 109-121.

Parrish, A. E., Agrillo, C., Perdue, B. M., & Beran, M. J. (2016). The elusive illusion: Do children (*Homo sapiens*) and capuchin monkeys (*Cebus apella*) see the Solitaire illusion? *Journal of Experimental Child Psychology*, *142*, 83-95.

Parrish, A. E., **Emerson, I. D.,** Rossettie, M. S., & Beran, M. J. (2016). Testing the ego-depletion hypothesis among capuchin monkeys: Does glucose boost self-control? *Behavioral Sciences*, *6*, 16. doi:10.3390/bs6030016

Agrillo, C., Gori, S., & Beran, M. J. (2015). Do rhesus monkeys (*Macaca mulatta*) perceive illusory motion? *Animal Cognition*, *18*, 895-910.

Beran, M. J. (2015). Chimpanzee cognitive control. *Current Directions in Psychological Science*, *24*, 352-357.

Beran, M. J. (2015). The comparative science of "self-control": What are we talking about? *Frontiers in Psychology*, *6*, Article 51

Beran, M. J. (2015). Animal memory: Chimpanzees anticipate what comes next in short movies. *Current Biology*, 25, R829-R830.

Beran, M. J., & Heimbauer, L. A. (2015). A longitudinal assessment of vocabulary retention in symbol-competent chimpanzees (*Pan troglodytes*). *PLoS ONE*, 10, e0118408

Beran, M. J., James, B. T., **Futch, S. E.**, & **Parrish, A. E.** (2015). A comparative psychologist by any other name...is still a comparative psychologist. Commentary: A crisis in comparative psychology: Where have all the undergraduates gone? *Frontiers in Psychology*, 6, 1928.

Beran, M. J., **Parrish, A. E.**, **Futch, S. E.**, Evans, T. A., & Perdue, B. M. (2015). Looking ahead? Computerized maze task performance by chimpanzees (*Pan troglodytes*), rhesus monkeys (*Macaca mulatta*), capuchin monkeys (*Cebus apella*), and human children (*Homo sapiens*). *Journal of Comparative Psychology*, 129, 160-173.

Beran, M. J., Perdue, B. M., & Evans, T. A. (2015). Prospective memory in nonhuman primates. *Japanese Journal of Animal Psychology*, 65, 23-33.

Beran, M. J., Perdue, B. M., **Futch, S. E.**, Smith, J. D., Evans, T. A., & **Parrish, A. E.** (2015). Go when you know: Chimpanzees' confidence movements reflect their responses in a computerized memory task. *Cognition*, 142, 236-246.

Parrish, A. E., Brosnan, S. F., & Beran, M. J. (2015). Do you see what I see? A comparative investigation of the Delboeuf illusion in humans (*Homo sapiens*), rhesus monkeys (*Macaca mulatta*) and capuchin monkeys (*Cebus apella*). *Journal of Experimental Psychology: Animal Learning and Cognition*, 41, 395-405.

Parrish, A. E., Brosnan, S. F., & Beran, M. J. (2015). Capuchin monkeys alternate play and reward in a dual computerized task. *Animal Behavior and Cognition*, 2, 334-347.

Parrish, A. E., Evans, T. A., & Beran, M. J. (2015). Rhesus macaques (*Macaca mulatta*) exhibit the decoy effect in a perceptual discrimination task. *Attention, Perception, & Psychophysics*, 77, 1715-1725.

Parrish, A. E., Evans, T. A., & Beran, M. J. (2015). Defining value through quantity and quality - Chimpanzees (*Pan troglodytes*) undervalue food quantities when items are broken. *Behavioural Processes*, 111, 118-126.

Perdue, B. M., **Bramlett, J. L.**, Evans, T. A., & Beran, M. J. (2015). Waiting for what comes later: Capuchin monkeys show self-control even for nonvisible delayed rewards. *Animal Cognition*, 18, 1105-1112.

Perdue, B. M., Church, B. A., Smith, J. D., & Beran, M. J. (2015). Exploring potential mechanisms underlying the lack of uncertainty monitoring in capuchin monkeys. *International Journal of Comparative Psychology*, Article 28.

Sayers, K., Evans, T. A., Menzel, E., Smith, J. D., & Beran, M. J. (2015). The misbehaviour of a metacognitive monkey. *Behaviour*, 152, 727-756.

Agrillo, C., **Parrish, A. E.**, & Beran, M. J. (2014). Do primates see the Solitaire illusion differently? A comparative assessment of Humans (*Homo sapiens*), chimpanzees (*Pan troglodytes*), rhesus monkeys (*Macaca mulatta*) and capuchin monkeys (*Cebus apella*). *Journal of Comparative Psychology*, 128, 402-413.

Agrillo, C., **Parrish, A. E.**, & Beran, M. J. (2014). Do rhesus monkeys (*Macaca mulatta*) perceive the Zöllner illusion? *Psychonomic Bulletin & Review*, 21, 986-994.

Beran, M. J. (2014). Animal memory: Rats bind event details into episodic memories. *Current Biology*, 24, R1160.

Beran, M. J., Evans, T. A., Paglieri, F., **McIntyre, J. M.**, Addessi, E., & Hopkins, W. D. (2014). Chimpanzees (*Pan troglodytes*) can wait, when they choose to: A study with the hybrid delay task. *Animal Cognition*, 17, 197-205.

Beran, M. J., **Parrish, A. E.**, Perdue, B. M., & Washburn, D. A. (2014). Comparative cognition: Past, present, and future. *International Journal of Comparative Psychology*, 27, 3-30.

Beran, M. J., Perdue, B. M., & Smith, J. D. (2014). What are my chances? Closing the gap in uncertainty monitoring between rhesus monkeys (*Macaca mulatta*) and capuchin monkeys (*Cebus apella*). *Journal of Experimental Psychology: Animal Learning and Cognition*, 40, 303-316.

Beran, M. J., & Smith, J. D. (2014). The uncertainty response in animal metacognition researchers. *Journal of Comparative Psychology*, 128, 155-159.

Evans, T. A., & Beran, M. J. (2014). Monkeys wait to begin a computer task when waiting makes their responses more effective. *Animal Behavior and Cognition*, 1, 36-50.

Evans, T. A., Perdue, B. M., & Beran, M. J. (2014). The relationship between event-based prospective memory and ongoing task performance in chimpanzees (*Pan troglodytes*). *PLoS ONE*, 9, e112015.

Evans, T. A., Perdue, B. M., **Parrish, A. E.**, & Beran, M. J. (2014). Working and waiting for better rewards: Self-control in two monkey species (*Cebus apella* and *Macaca mulatta*). *Behavioural Processes*, *103*, 236-242.

Garland, A., Beran, M. J., **McIntyre, J. M.**, & Low, J. (2014). Relative quantity judgments between discrete spatial arrays by chimpanzees (*Pan troglodytes*) and New Zealand robins (*Petroica longipes*). *Journal of Comparative Psychology*, *128*, 307-317.

Parrish, A. E., & Beran, M. J. (2014). Chimpanzees sometimes see fuller as better: Judgments of food quantities based on container size and fullness. *Behavioural Processes*, *103*, 184-191.

Parrish, A. E., & Beran, M. J. (2014). When less is more: Like humans, chimpanzees (*Pan troglodytes*) misperceive food amounts based on plate size. *Animal Cognition*, *17*, 427-434.

Parrish, A. E., Brosnan, S. F., Wilson, B. J., & Beran, M. J. (2014). Differential responding by rhesus monkeys (*Macaca mulatta*) and humans (*Homo sapiens*) to variable outcomes in the Assurance game. *Animal Behavior and Cognition*, *1*, 215-229.

Parrish, A. E., Perdue, B. M., Stromberg, E. E., Bania, A. E., Evans, T. A., & Beran, M. J. (2014). Delay of gratification by orangutans (*Pongo pygmaeus*) in the accumulation task. *Journal of Comparative Psychology*, *128*, 209-214.

Perdue, B. M., Beran, M. J., Williamson, R. A., Gonsiorowski, A., Evans, T. A. (2014). Prospective memory in children and chimpanzees. *Animal Cognition*, *17*, 287-295.

Perdue, B. M., Evans, T. A., Washburn, D. A., Rumbaugh, D. M., & Beran, M. J. (2014). Do monkeys choose to choose? *Learning & Behavior*, *42*, 164-175.

Smith, J. D., **Couchman, J. J.**, & Beran, M. J. (2014). Animal metacognition: A tale of two comparative psychologies. *Journal of Comparative Psychology*, *128*, 115-131.

Smith, J. D., **Couchman, J. J.**, & Beran, M. J. (2014). Animal metacognition: A tale of two comparative psychologies – Reply to Commentaries. *Journal of Comparative Psychology*, *128*, 140-142.

Vonk, J., Torgerson-White, L., McGuire, M., Thueme, M., Thomas, J., & Beran, M. J. (2014). Quantity estimation and comparison in Western Lowland Gorillas (*Gorilla gorilla gorilla*). *Animal Cognition*, *17*, 755-765.

Zakrzewski, A. C., Perdue, B. M., Beran, M. J., Church, B. A., & Smith, J. D.

(2014). Cashing out: The decisional flexibility of uncertainty responses in rhesus macaques (*Macaca mulatta*) and humans (*Homo sapiens*). *Journal of Experimental Psychology: Animal Learning and Cognition*, 40, 490-501.

Addressi, E., Paglieri, F., Beran, M. Evans, T. Macchitella, L., De Petrillo, F., & Focaroli, V. (2013). Delay choice vs. delay maintenance: Different measures of delayed gratification in capuchin monkeys (*Cebus apella*). *Journal of Comparative Psychology*, 127, 392-398.

Agrillo, C. & Beran, M. J. (2013). Number without language: Comparative psychology and the evolution of numerical cognition. *Frontiers in Comparative Psychology*, 4, Article 295.

Beran, M. J., **McIntyre, J. M.**, Garland, A., & Evans, T. A. (2013). What counts for “counting”? Chimpanzees (*Pan troglodytes*) respond appropriately to relevant and irrelevant information in a quantity judgment task. *Animal Behaviour*, 85, 987-993.

Beran, M. J., & **Parrish, A. E.** (2013). Visual nesting of stimuli affects rhesus monkeys' (*Macaca mulatta*) quantity judgments in a bisection task. *Attention, Perception, & Psychophysics*, 75, 1243-1251.

Beran, M. J., Smith, J. D., & Perdue, B. M. (2013). Language-trained chimpanzees name what they have seen, but look first at what they have not seen. *Psychological Science*, 24, 660-666.

Brosnan, S. F., Beran, M. J., **Parrish, A. E.**, **Price, S. A.**, & Wilson, B. J. (2013). Comparative approaches to studying strategy: Towards an evolutionary account of primate decision-making. *Evolutionary Psychology*, 11, 606-627.

Klein, E. D., Evans, T. A., **Schultz, N. B.**, & Beran, M. J. (2013). Learning how to “make a deal”: Human and monkey performance when repeatedly faced with the Monty Hall Dilemma. *Journal of Comparative Psychology*, 127, 103-108.

Paglieri, F., Focaroli, V., **Bramlett, J.**, Tierno, V., **McIntyre, J.**, Addressi, E., Evans, T. A., & Beran, M. J. (2013). The hybrid delay task: Can capuchin monkeys (*Cebus apella*) sustain a delay after an initial choice to do so? *Behavioural Processes*, 94, 45-54.

Parrish, A. E., Perdue, B. M., Evans, T. A., & Beran, M. J. (2013). Chimpanzees (*Pan troglodytes*) transfer tokens repeatedly with a partner to accumulate rewards in a self-control task. *Animal Cognition*, 16, 627-636.

Smith, J. D., **Coutinho, M. V. C.**, Church, B., & Beran, M. J. (2013). Executive-attentional uncertainty responses by rhesus monkeys (*Macaca mulatta*). *Journal of Experimental Psychology: General*, 142, 458-475.

Smith, J. D., **Flemming, T. M., Boomer, J.**, Beran, M. J., & Church, B. A. (2013). Fading perceptual resemblance: A path for rhesus macaques (*Macaca mulatta*) to conceptual matching? *Cognition*, *129*, 598-614.

Beran, M. J. (2012). Did you ever hear the one about the horse that could count? *Frontiers in Psychology*, *3*, Article 357.

Beran, M. J. (2012). Animal memory: Rats can answer unexpected questions about past events. Dispatch Article. *Current Biology*, *22*, R491-R493.

Beran, M. J. (2012). Quantity judgments of auditory and visual stimuli by chimpanzees (*Pan troglodytes*). *Journal of Experimental Psychology: Animal Behavior Processes*, *38*, 23-29.

Beran, M. J., Decker, S., Schwartz, A., & Smith, J. D. (2012). Uncertainty monitoring by young children in a computerized task. *Scientifica*, *2012*, Article 629890.

Beran, M. J., & Evans, T. A. (2012). Language-trained chimpanzees (*Pan troglodytes*) delay gratification by choosing token exchange over immediate reward consumption. *American Journal of Primatology*, *74*, 864-870.

Beran, M. J., Evans, T. A., Klein, E. D., & Einstein, G. O. (2012). Rhesus monkeys (*Macaca mulatta*) and capuchin monkeys (*Cebus apella*) remember future responses in a computerized task. *Journal of Experimental Psychology: Animal Behavior Processes*, *38*, 233-243.

Beran, M. J., **Owens, K., Phillips, H. A.**, & Evans, T. A. (2012). Humans and monkeys show similar skill in estimating uncertain outcomes. *Psychonomic Bulletin & Review*, *19*, 357-362.

Beran, M. J., & **Parrish, A. E.** (2012). Sequential responding and planning in capuchin monkeys (*Cebus apella*). *Animal Cognition*, *15*, 1085-1094.

Beran, M. J., Perdue, B. M., **Bramlett, J. L.**, Menzel, C. R., & Evans, T. A. (2012). Prospective memory in a language-trained chimpanzee (*Pan troglodytes*). *Learning and Motivation*, *43*, 192-199.

Beran, M. J., Perdue, B. M., **Parrish, A. E.**, & Evans, T. A. (2012). Do social conditions affect capuchin monkeys' (*Cebus apella*) choices in a quantity judgment task? *Frontiers in Psychology*, *3*, Article 492.

Bramlett, J. L., Perdue, B. M., Evans, T. A., & Beran, M. J. (2012). Capuchin monkeys (*Cebus apella*) let lesser rewards pass them by to get better rewards. *Animal Cognition*, *15*, 963-969.

Brosnan, S. F., Wilson, B. J., & Beran, M. J. (2012). Old World monkeys are more similar to humans than New World monkeys when playing a coordination game. *Proceedings of the Royal Society of London*, 279, 1522-1530.

Couchman, J. J., Beran, M. J., **Coutinho, M. V. C.**, **Boomer, J.**, **Zakrzewski, A.**, Church, B. J., & Smith, J. D. (2012). Do actions speak louder than words? A comparative perspective on implicit vs. explicit metacognition and theory of mind. *British Journal of Developmental Psychology*, 30, 210-221.

Evans, T. A., & Beran, M. J. (2012). Monkeys exhibit prospective memory in a computerized task. *Cognition*, 125, 131-140.

Evans, T. A., Beran, M. J., Paglieri, F., Addessi, E. (2012). Delaying gratification for food and tokens in capuchin monkeys (*Cebus apella*) and chimpanzees (*Pan troglodytes*): When quantity is salient, symbolic stimuli do not improve performance. *Animal Cognition*, 15, 539-548.

Evans, T. A., Perdue, B. M., **Parrish, A. E.**, Menzel, E., Brosnan, S. F., & Beran, M. J. (2012). How is chimpanzee self-control influenced by social setting? *Scientifica*, Article ID 654094.

Heimbauer, L. A., Conway, C. M., Christiansen, M. H., Beran, M. J., & Owren, M. J. (2012). A serial reaction time (SRT) task with symmetrical joystick responding for nonhuman primates. *Behavior Research Methods*, 44, 733-741.

Perdue, B. M., **Talbot, C. F.**, Stone, A., & Beran, M. J. (2012). Putting the elephant back in the herd: Elephant relative quantity judgments match those of other species. *Animal Cognition*, 15, 955-961.

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Beran, M. J. (2012). We cannot know what it is like to be a bat, but we can know better what it is like to see like a bat. [Review of the book *How animals see the world: Comparative behavior, biology, and evolution of vision*, edited by O. F. Lazareva, T. Shimizu, & E. A. Wasserman]. *PsycCRITIQUES* 57 (38).

Beran, M. J., & Perdue, B. M. (2012). Do I know what you know, or do I only know what you do? Animal mindreading versus behavior reading. [Review of the book *Mindreading animals: The debate over what animals know about other minds*, by R. Lurz]. *PsycCRITIQUES*, 57(18).

Parrish, A. E., & Beran, M. J. (2012). Thinking animals: A closed case or an open debate? *Frontiers in Psychology*, 3, Article 250. [Review of the book *Animal thinking: Contemporary issues in comparative cognition*, by R. Menzel & J. Fischer]

Beran, M. J., & **Heimbauer, L. M.** (2011). From scratching to symbolism? Chimpanzee "drawings" and the origins of symbolism. [Review of the book

Starting from scratch: The origin and development of expression, representation and symbolism in human and non-human primates, by J. Matthews]. *PsycCRITIQUES*, 56 (44).

Beran, M. J. (2010). Not all primate brains are the same, and hooray for that. [Review of *Primate Neuroethology*, by M. L. Platt & A. Ghazanfar]. *PsycCRITIQUES*, 55, (33).

Beran, M. J. (2007). Lopping leap years, sexy primes, and bible codes. Reminders that mathematics is everywhere. [Review of *The secret life of numbers: 50 easy pieces on how mathematicians work and think* by G. G. Szpiro]. *PsycCRITIQUES*, 52 (9).

Beran, M. J. (2006, November 29). Current thinking about animal thinking: Comparative cognition at a crossroads. [Review of the book *Comparative cognition: Experimental explorations of animal intelligence*, by E. A. Wasserman & T. R. Zentall]. *PsycCRITIQUES*, 51 (48).

Beran, M. J. (2005). Book Review: *The evolution of thought: Evolutionary origins of great ape intelligence*, by A. E. Russon and David R. Begun and *Apes, monkeys, children, and the growth of mind* by J. C. Gómez. *International Journal of Primatology*, 26, 1203-1207.

Beran, M. J., & Rumbaugh, D. M. (2004). Working to understand whether memories ever leave – with a trace. Review of *Memories are made of this: How memory works in humans and animals*, by Rusiko Bourtchouladze. *Contemporary Psychology: APA Review of Books*, 49, 433-434.

Beran, M. M., & Beran, M. J. (2004). The roots of human behavior are found in nonhuman primates. Review of *Roots of Human Behavior*, by Barbara J. King. *American Journal of Primatology*, 63, 33-35.

Beran, M. J., & Rumbaugh, D. M. (2001). Comparative cognitive science and the Japanese influence in primatology. Review of *Primate origins of human cognition and behavior*, by Tetsuro Matsuzawa. *American Journal of Primatology*, 55, 183-185.

INVITED ADDRESSES AND INVITED SYMPOSIA (Students in bold):

Beran, M. J., Perdue, B. M., & Parrish, A. E. (August, 2016). Chimpanzee cognitive control. Invited paper presented at the Chimpanzees in Context conference, Chicago, IL.

Beran, M. J. (August, 2016). NUMATH and animal numerical cognition. Paper presented at the 124th annual meeting of the American Psychological Association, Denver, CO.

Beran, M. J. (August, 2016). Why nonhuman primate research (still) matters to human psychology. Paper presented at the 124th annual meeting of the American Psychological Association, Denver, CO.

Beran, M. J. (June, 2016). Future-oriented cognition in nonhuman primates. Keynote Address at the Traveling in Time: The Construction of Past and Future Events Across Domains Conference at the Center on Autobiographical Memory Research, Aarhus University, Denmark.

Beran, M. J. (April, 2016). Prospective memory and metamemory in chimpanzees. Invited paper presented at the 3rd Annual Mechanisms of Learning Forum: Making and Manipulating Memories at Emory University, Atlanta, GA.

Beran, M. J., Parrish, A. E., Menzel, C. R., Evans, T. A., **Futch, S.**, & Perdue, B. M. (March, 2016). From mazes to my favorite food...later: Self-control, planning and prospective memory in primates. Invited symposium paper presented at the 108th annual meeting of the Southern Society for Philosophy and Psychology, Louisville, KY.

Beran, M. J. (February, 2016). Kids are primates too: From developmental studies to comparative studies and back again. Invited address at the Kiddie Café Developmental Seminar, Georgia State University, Atlanta, GA.

Beran, M. J. (September, 2015). Chimpanzee memory. Invited symposium paper presented at the 1st annual North Georgia Regional Annual Memory Meeting, Atlanta, GA.

Beran, M. J., Agrillo, C., & **Parrish, A. E.** (April, 2015). Do you (mis)see what I (mis)see? Illusions across primate species. Invited symposium paper presented at the 107th annual meeting of the Southern Society for Philosophy and Psychology, New Orleans, LA.

Beran, M. J. (November, 2014). To err is (not only) human: Fallibility as a window into primate cognition. Invited address at Georgia Gwinnett College, Atlanta, GA.

Beran, M. J., **Parrish, A. E.**, Perdue, B. M., **b**, & Evans, T. A. (August, 2014). Do primates say it's worth the wait? Comparative approaches to delay of gratification. Invited symposium paper presented at the 122nd annual meeting of the American Psychological Association, Washington DC.

Beran, M. J. (July, 2014). Prospective memory in nonhuman primates. Invited symposium paper presented at the 74th annual meeting of the Japanese Society for Animal Psychology, Inuyama, Japan.

Beran, M. J. (March, 2014). Behavioral economics from the chimpanzee's perspective. Invited address in the Behavioral Economics Lecture Series at Reed College, Portland, OR.

Beran, M. J. (March, 2014). Worth waiting for: Studies of primate self-control and "willpower." Invited colloquium paper presented at Reed College, Portland, OR.

Beran, M. J. (March, 2014). Worth waiting for: Studies of self-control and "willpower" in primates. Invited symposium paper presented at the Animal Concepts: Cognition, Enrichment, and Collaboration conference at Zoo Atlanta, Atlanta, GA.

Agrillo, C., **Parrish, A. E.**, & Beran, M. J. (February, 2014). Perception of static and motion illusions in non-human primates (*Macaca mulatta*). Invited symposium paper presented at the 106th annual meeting of the Southern Society for Philosophy and Psychology, Charleston, SC.

Beran, M. J. (February, 2014). To err is (not only) human: Fallibility (and success) in comparative approaches to cognition. Presidential Address presented at the 106th annual meeting of the Southern Society for Philosophy and Psychology, Charleston, SC.

Evans, T. A., Perdue, B. M., & Beran, M. J. (February, 2014). Language-trained chimpanzees (*Pan troglodytes*) remember to remember in an analog of a human prospective memory task. Invited symposium paper presented at the 106th annual meeting of the Southern Society for Philosophy and Psychology, Charleston, SC.

Parrish, A. E., & Beran, M. J. (February, 2014). Context counts! Chimpanzees (*Pan troglodytes*) misperceive food amounts based on presentation style. Invited symposium paper presented at the 106th annual meeting of the Southern Society for Philosophy and Psychology, Charleston, SC.

Beran, M. J. (November, 2013). Anticipating the future: Primate 'willpower' and prospective memory. Invited address in the Department of Biological Sciences, The University of Memphis, Memphis, TN.

Beran, M. J. (May, 2013). Do animals have "willpower"? Comparative investigations of self-control. B. F. Skinner invited address presented at the 39th annual meeting of the Association of Behavior Analysis International, Minneapolis, MN.

Beran, M. J. (May, 2013). Numerical cognition in nonhuman primates: Enumeration, estimation, and calculation. Invited address presented at the NIH conference "Evolutionary Origins and Early Development of Basic Number Processing." Bethesda, MD.

Beran, M. J. (March, 2013). Different approaches to inter-temporal choice: What are we measuring? Invited address presented at the CompCog Program entitled "Concepts and methodologies in the field of intertemporal choice," Vienna, Austria.

Beran, M. J. (October, 2012). How long would you wait for an M&M? Studying willpower in primates. Invited address presented at Augusta State University, Augusta GA.

Beran, M. J., (August, 2012). Prospecting for monkey prospective memory. Invited symposium paper presented at the 120th annual meeting of the American Psychological Association meeting, Orlando, FL.

Beran, M. J. (November, 2011). "Patience" is a virtue: Self-control in other animals. Invited paper presented at Parkview High School for the Invited Lecturer series for AP Psychology, Atlanta, GA.

Beran, M. J. (March, 2011). A century's worth of ideas in animal intelligence – in 10 minutes or less. Invited symposium paper presented at the 103rd Annual Meeting of the Southern Society for Philosophy and Psychology, New Orleans, LA.

Beran, M. J. (March, 2011). Perception (and misperception) of visual and auditory quantities by apes, monkeys, and humans. Invited symposium paper presented at the 103rd Annual Meeting of the Southern Society for Philosophy and Psychology, New Orleans, LA.

Beran, M. J. (March, 2011). The metacognitive monkey and the self-controlled chimpanzee. Invited paper presented for the Psi Chi Club of Georgia State University, Atlanta, GA.

Beran, M. J. (December, 2010). What counts as counting, and who counts as counting? Primates as mathematicians. Invited paper presented at Parkview High School for the Invited Lecturer series for AP Psychology, Atlanta, GA.

Beran, M. J. (December, 2010). Primate mathematicians: Enumeration, estimation, and calculation. Invited address presented at the Cognition and Development Seminar, Emory University, Atlanta, GA.

Beran, M. J. (June 2010). Long-term retention of lexigram meanings by chimpanzees (*Pan troglodytes*). Invited symposium paper presented in the Rumbaugh Symposium on Language and Learning at the 33rd Annual Meeting of the American Society of Primatologists, Louisville, KY.

Beran, M. J. (April, 2010). Chimpanzee serial list memory: False memories and isolation effects. Invited symposium paper presented at the 102nd Annual Meeting of the Southern Society for Philosophy and Psychology, Atlanta, GA.

Smith, J. D., & Beran, M. J. (October, 2009). Animal metacognition: The extended mind in self-interaction. Invited address presented at the EUROCORES Program conference Consciousness in a Natural and Cultural, Edinburgh, Scotland.

Beran, M. J. (August, 2009). Natural choice in chimpanzees: Sometimes less is preferred to more. Invited address presented at the 117th Annual Meeting of the American Psychological Association, Toronto, Canada.

Beran, M. J. (July, 2009). Beyond uncertainty monitoring: Primate responses to incomplete information and temptation. Invited address presented at the Metacognition and Mindreading Conference, Salzburg, Austria.

Beran, M. J., Klein, E. D., & Evans, T. A. (April, 2009). Prospects for prospective memory research with monkeys. Invited symposium paper presented at the 79th Annual Meeting of the Rocky Mountain Psychological Association, Albuquerque, NM.

Beran, M. J. (February, 2009). Monkey mathematicians: Quantity comparisons by capuchins and macaques. Invited symposium paper presented at the 54th Annual Meeting of the Southeastern Psychological Association, New Orleans, LA.

Beran, M. J. (October, 2008). The metacognitive monkey and the self-controlled chimpanzee. Invited address at the University of Memphis Institute for Intelligent Systems. Memphis, TN.

Beran, M. J. (October, 2008). Numerical competence in animals revisited. Invited address at the University of Memphis Cognitive Science Seminar. Memphis, TN.

Beran, M. J. (October, 2008). Primate mathematics: Enumeration, estimation, and calculation. Invited symposium paper presented at the 14th biennial meeting of the International Society for Comparative Psychology, Buenos Aires, Argentina.

Flemming, T. M., & Beran, M. J. (October, 2008). Application of the analogical rule in nonhuman primates. Invited symposium paper presented at the 14th biennial meeting of the International Society for Comparative Psychology, Buenos Aires, Argentina.

Beran, M. J. (August ,2008). Animal willpower? Studying delay of gratification in nonhuman primates. Invited New Fellows address presented at the 116th Annual Meeting of the American Psychological Association, Boston, MA.

Beran, M. J., Smith, J. D., & Proust, J. (May, 2008). Metacognition in nonhumans: Methodological and theoretical issues. Invited symposium paper presented at the 3rd Biennial Meeting of the EARLI Special Interest Group: Metacognition. Ioannina, Greece.

Beran, M. J. (March, 2008). Primate willpower. Keynote address at the Southeast Missouri State University Student Research Conference, Cape Girardeau, MO.

Beran, M. J. (March, 2008). How do chimpanzees and monkeys respond to their own fallibility and impulsivity? Invited paper at the Georgia State University Neurophilosophy Lecture Series, Atlanta, GA.

Beran, M. J. (March, 2008). Chimpanzees as natural accountants. Invited symposium paper presented at the 54th Annual Meeting of the Southeastern Psychological Association, Charlotte, NC.

Beran, M. J. (January, 2008). Primate mathematics: A return to parsimony. Invited paper presented at the Hard Data Café, Georgia State University, Atlanta, GA.

Beran, M. J. (November, 2007). Math lessons for monkeys: Using computers to present old problems in new ways. Invited symposium paper presented at the Paper presented at the 37th Annual Meeting of the Society for Computers in Psychology, Long Beach, CA.

Beran, M. J. (August, 2007). Enumeration, estimation, and 'fuzzy' math by chimpanzees. Invited symposium paper presented at the 115th Annual Meeting of the American Psychological Association, San Francisco, CA.

Beran, M. J. (August, 2006). Chimpanzee symbol-mindedness: Numbers and names for the long term. Invited symposium paper at the presented at the 114th Annual Meeting of the American Psychological Association, New Orleans, LA.

Rumbaugh, D. M., Washburn, D. A., & Beran, M. J. (August, 2004). Emergents and rational behaviorism: The processes of learning, conditioning, and reinforcement in creativity. Invited paper presented at the 28th International Congress of Psychology, Beijing, China.

Beran, M. J. (July, 2004). Life and career of Donald Olding Hebb (1904-1985). Invited symposium paper presented at the 112th Annual Meeting of the American Psychological Association, Honolulu, HI.

Beran, M. J. (April, 2004). Continued studies of delay of gratification in nonhuman primates. Invited symposium paper presented at the 96th Annual Meeting of the Southern Society for Philosophy and Psychology, New Orleans, LA.

Beran, M. J. (October, 2003). 1-2-3-4: Chimpanzees count and make judgments of 'more.' Invited presentation, Berry College, Rome, GA.

Beran, M. J. (November, 2002). Studies of numerosness judgments of sequentially presented sets by chimpanzees (*Pan troglodytes*). Invited paper presented at the COE/SAGA5 International Symposium "Evolution of the apes and the origin of the human beings," Inuyama, Japan.

Beran, M. J. (April, 2002). Math matters: Chimpanzees and other nonhuman animals. Invited paper presented at the Hard Data Café, Georgia State University, Atlanta, GA.

Washburn, D. A., & Beran, M. J. (August, 2001). Animals count; What's next? Invited symposium paper presented at the 109th Annual Meeting of the American Psychological Association, San Francisco, CA.

Rilling, J., Kilts, C., Williams, S. L., Kelley, J. W., Beran, M. J., Giroux, M., Hoffman, J. M., Savage-Rumbaugh, E. S., & Rumbaugh, D. M. (November, 1999). Functional neuroimaging of linguistic processing in chimpanzees. Invited poster presented at SAGA/COE International Symposium, Inuyama, Japan.

CONFERENCE PRESENTATIONS – LAST 5 YEARS (Students in bold):

Beran, M. J., Kelly, A. J., Perdue, B. M., **Whitham, W., Love, M., Luk, P., Kelly, V.,** & Parrish, A. E. (November, 2016). Divide and conquer: Preschool children assign the hardest task to a helper. Paper presented at the 57th annual meeting of the Psychonomics Society, Boston, MA.

Parrish, A. E., Kelly, A. J., Perdue, B. M., **Love, M., Whitham, W., Luk, P. Y., Kelly, V.,** & Beran, M. J. (November, 2016). Remembering for later: Exploring prospective memory development in preschool children. Poster presented at the 57th annual meeting of the Psychonomics Society, Boston, MA.

Perdue, B. M., Evans, T. A., & Beran, M. J. (November, 2016). Tool use and metacognition in chimpanzees. Poster presented at the 57th annual meeting of the Psychonomics Society, Boston, MA.

Smith, T. R., & Beran, M. J. (November, 2016). Cognitive control in capuchin monkeys. Paper presented at the annual meeting of the Comparative Cognition Society, Boston, MA.

Smith, T. R., & Beran, M. J. (November, 2016). Gambling monkeys: The influence of reward cues on risky decision-making. Poster presented at the 57th annual meeting of the Psychonomics Society, Boston, MA.

Whitham, W., Beran, M. J., Conway, C. M., **James, B.**, Parrish, A. E., & Washburn, D. A. (November, 2016). Statistical regularities and quantity to humans and rhesus macaques. Poster presented at the 57th annual meeting of the Psychonomics Society, Boston, MA.

Whitham, W., Beran, M. J., Conway, C. M., **James, B.**, Parrish, A. E., & Washburn, D. A. (November, 2016). Statistical regularities and quantity to humans and rhesus macaques. Paper presented at the annual meeting of the Comparative Cognition Society, Boston, MA.

Kelly, V. A., Parrish, A. E., Kelly, A. K., Perdue, B. M., **Love, M.**, **Whitham, W.**, **Luk, P. Y.**, & Beran, M. J. Prospective memory in children during computerized maze performance. Poster presented at the Psychology Undergraduate Research Conference (PURC) at Georgia State University, Atlanta GA.

Otalora-Garcia, A., Parrish, A. E., & Beran, M. J. (October, 2016). How chimpanzees (*Pan troglodytes*) deal with conflicting cues during food choice tests. Poster presented at the Psychology Undergraduate Research Conference (PURC) at Georgia State University, Atlanta GA.

Agrillo, C., Parrish, A. E., Perdue, B. M., & Beran, M. J. (July, 2016). Numerosity illusion in children (*Homo sapiens*) and capuchin monkeys (*Cebus apella*). Paper presented at the Cognition and Evolution Conference (CogEvo), Rovereto, Italy.

James, B. T., Beran, M. J., & Parrish, A. E. (July, 2016). Does density influence visual numerical discriminations in chimpanzees (*Pan troglodytes*) and capuchin monkeys (*Cebus apella*)? Paper presented at the 31st meeting of the International Congress of Psychology, Yokohama, Japan.

Beran, M. J., Parrish, A. E., **Futch, S. E.**, Perdue, B. M., & Smith, J. D. (May, 2016). Information-seeking behavior and confidence judgments by chimpanzees. Paper presented at the International Meeting of the Psychonomic Society, Granada, Spain.

Smith, J. D., Church, B. A., & Beran, M. J. (May, 2016). The evolutionary roots of metacognition. Paper presented at the International Meeting of the Psychonomic Society, Granada, Spain.

Beran, M. J., **James, B. T., Whitham, W.,** & Parrish, A. E. (April, 2016). Chimpanzees can point to small amounts of food to accumulate larger amounts: Reversing the reverse-reward contingency error? Paper presented at the 23rd annual International Conference on Comparative Cognition, Melbourne, FL.

James, B. T., Rayburn-Reeves, R., & Beran, M. J. (April, 2016). Within-session reversal learning in rhesus macaques (*Macaca mulatta*). Poster presented at the 23rd annual International Conference on Comparative Cognition, Melbourne, FL.

Parrish, A. E., & Beran, M. J. (April, 2016). Response competition in monkey magnitude judgments: Size judgments are affected by reward values of stimuli. Paper presented at the 23rd annual International Conference on Comparative Cognition, Melbourne, FL.

Hrubic, M. L., Williamson, R. A., & Beran, M. J. (March, 2016). Learning to delay gratification: Evidence for differential strategy efficacy by paradigm. Poster presented at the 20th Biennial Conference of the Society for Research in Human Development, March 18, 2016, Denver, CO.

Love, M., Kelly, A., Perdue, B. M., & Beran, M. J. (March, 2016). Prospective memory and output monitoring in preschool children. Poster presented at the 62nd annual meeting of the Southeastern Psychological Association, New Orleans, LA.

Beran, M. J., & **Parrish, A. E.** (November, 2015). Capuchin monkeys (*Cebus apella*) treat small and large numbers of items similarly during relative quantity judgments. Paper presented at the 56th annual meeting of the Psychonomic Society, Chicago, IL.

Beran, M. J., **Parrish, A. E., Futch, S. E.,** Evans, T. A., Perdue, B. M., & Smith, J. D. (November, 2015). Information-seeking behavior and confidence judgments by chimpanzees. Poster presented at the annual meeting of the Society for Judgment and Decision Making, Chicago, IL.

Parrish, A. E., & Beran, M. J. (November, 2015). Anchoring effects in monkey magnitude judgments. Poster presented at the annual meeting of the Society for Judgment and Decision Making, Chicago, IL.

Parrish, A. E., Brosnan, S. F., & Beran, M. J. (November, 2015). Do you see what I see? A comparative investigation of the Delbouef illusion in humans and monkeys. Poster presented at the 56th annual meeting of the Psychonomic Society, Chicago, IL.

Futch, S. E., Parrish, A. E., Perdue, B. M., Smith, J. D., Evans, T. A., & Beran, M. J. (October, 2015). Confidence judgments by chimpanzees during computerized memory testing. Poster presented at the Psychology

Undergraduate Research Conference (PURC) at Georgia State University, Atlanta GA.

Love, M. W., Beran, M. J., & Kelly, A. J. (October, 2015). Prospective memory and output monitoring in preschool children. Poster presented at the Psychology Undergraduate Research Conference (PURC) at Georgia State University, Atlanta GA.

Walker, B., Rossettie, M., **Futch, S. E.**, Perdue, B. M., & Beran, M. J. (October, 2015). Save it for later! Delay of gratification in capuchin monkeys. Poster presented at the Psychology Undergraduate Research Conference (PURC) at Georgia State University, Atlanta GA.

Beran, M. J. (August, 2015). The problems and perils of replication in comparative psychology. Paper presented at the 123rd annual meeting of the American Psychological Association, Toronto, Canada.

Hrabic, M., **MacDonald, B. J.**, Beran, M. J., & Williamson, R. A. (July, 2015). Preschoolers' and chimpanzees' use of source reliability on action-based tasks. Poster presented at the 37th Annual Cognitive Science Society Meeting, Pasadena, CA.

Agrillo, C, **Parrish, A. E.**, & Beran, M. J. (May, 2015). Zollner illusion in rhesus monkeys (*Macaca mulatta*). Poster presented at the 27th annual convention of the Association for Psychological Science, New York.

Beran, M. J., Perdue, B. M., Smith, J. D., **Futch, S.**, Evans, T. A., & **Parrish, A. E.** (May, 2015). Confidence judgments by chimpanzees during computerized memory tests. Poster presented at the 27th annual convention of the Association for Psychological Science, New York.

Beran, M. J., Smith, J. D., & Purdue, B. M. (April, 2015). What we (think we) know about why capuchin monkeys don't seem to know what they know. Paper presented at the 107th annual meeting of the Southern Society for Philosophy and Psychology, New Orleans, LA.

Hrabic, M., Foster, N., **Bramlett, J.**, Perdue, B. M., Beran, M. J., & Williamson, R. (April, 2015). A comparative approach to effective strategy use in delaying gratification. Paper presented at the 107th annual meeting of the Southern Society for Philosophy and Psychology, New Orleans, LA.

Parrish, A. E., Evans, T. A., & Beran, M. J. (April, 2015). Rhesus monkeys fall for the decoy effect in a perceptual discrimination task. Paper presented at the 107th annual meeting of the Southern Society for Philosophy and Psychology, New Orleans, LA.

Hrabic, M., Williamson, R. W., & Beran, M. J. (March, 2015). Children's use of a model in a delay of gratification task. Poster presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.

Beran, M. J., Evans, T. A., **Parrish, A. E.**, & Perdue, B. M. (November, 2014). Go when you know: Confidence movements by language-trained chimpanzees during computerized testing. Paper presented at the 55th annual meeting of the Psychonomic Society, Long Beach, CA.

Boomer, J., Church, B. A., **Zakrzewski, A. C.**, Baum, M. L., Beran, M. J., & Smith, J. D. (November, 2014). Chronometrics of solving a temporally extended problem in humans and rhesus monkeys. Paper presented at the meeting of the Comparative Cognition Society, Long Beach, CA.

Parrish, A. E., & Beran, M. J. (November, 2014). Rhesus monkeys fall for the decoy effect in a perceptual discrimination task. Poster presented at the 55th annual meeting of the Psychonomic Society, Long Beach, CA.

Parrish, A. E., & Beran, M. J. (November, 2014). Context counts! Chimpanzees (*Pan troglodytes*) misperceive food amounts based on presentation style. Paper presented at the meeting of the Comparative Cognition Society, Long Beach, CA.

Beran, M. J., Evans, T. A., Hopkins, W. D., Addessi, E., & Paglieri, F. (September, 2014). The hybrid delay task and assessments of self-control in capuchins (*Sapajus spp.*) and chimpanzees (*Pan troglodytes*). Paper presented at the 37th annual meeting of the American Society of Primatologists, Decatur, GA.

Brosnan, S. F., Beran, M. J., Williams, L. E., & Wilson, B. J. (September, 2014). Individual differences in cognition across the lifespan. Paper presented at the 37th annual meeting of the American Society of Primatologists, Decatur, GA.

Evans, T. E., & Beran, M. J. (September, 2014). Inhibition and cognitive control in capuchin monkeys (*Cebus apella*) and rhesus monkeys (*Macaca mulatta*). Paper presented at the 37th annual meeting of the American Society of Primatologists, Decatur, GA.

Hall, K., Beran, M. J., Wilson, B. J., Lambeth, S. P., Schapiro, S. J., & Brosnan, S. F. (September, 2014). Captive chimpanzees' (*Pan troglodytes*) responses to two economic games. Paper presented at the 37th annual meeting of the American Society of Primatologists, Decatur, GA.

Parrish, A. E., & Beran, M. J. (September, 2014). Chimpanzees (*Pan troglodytes*) misperceive food quantities in certain contexts. Paper presented at the 37th annual meeting of the American Society of Primatologists, Decatur, GA.

Agrillo, C., Parrish, A. E., & Beran, M. J. (March, 2014). Zöllner illusion in rhesus monkeys (*Macaca mulatta*). Paper presented at the 21st Annual International Conference on Comparative Cognition, Melbourne, FL.

Boomer, J., Church, B., Zakrzewski, A., Baum, M., & Smith, J. D. (February, 2014). Chronometrics of action planning by humans and rhesus monkeys. Paper presented at the 106th annual meeting of the Southern Society for Philosophy and Psychology, Charleston, SC.

Zakrzewski, A., Beran, M. J., Church, B., & Smith, J. D. (February, 2014). Serial ordering and temporally extended reflection during problem solving. Paper presented at the 106th annual meeting of the Southern Society for Philosophy and Psychology, Charleston, SC.

Beran, M. J., Perdue, B. M., Church, B. A., & Smith, J. D. (November, 2013). Differences in uncertainty monitoring by rhesus monkeys (*Macaca mulatta*) and capuchin monkeys (*Cebus apella*): It's not a chance thing. Paper presented at the 54th annual meeting of the Psychonomic Society, Toronto, Canada.

Parrish, A. E., & Beran, M. J. (November, 2013). Visual nesting of stimuli affects rhesus monkeys' (*Macaca mulatta*) quantity judgments in a bisection task. Poster presented at the 54th annual meeting of the Psychonomic Society, Toronto, Canada.

Parrish, A. E., Perdue, B. M., Evans, T. A., & Beran, M. J. (November, 2013). Chimpanzees (*Pan troglodytes*) transfer tokens with social partners to accumulate rewards in a self-control task. Paper presented at the Fall Meeting of the Comparative Cognition Society, Toronto, Canada.

[Winner - APA Division 3's award for best presentation at the Comparative Cognition Society meeting]

Parrish, A. E., & Beran, M. J. (October, 2013). The Delboeuf illusion in food portion judgments by chimpanzees (*Pan troglodytes*). Paper presented at the Association for Consumer Research meeting, Chicago, IL.

Agrillo, C., **Parrish, A. E.**, & Beran, M. J. (September, 2013). Zöllner illusion in non-human primates. Paper presented at the Italian Psychological Association, Rome, Italy.

Beran, M. J., Perdue, B. M., **Parrish, A. E.**, & Evans, T. A. (August, 2013). Humans and nonhuman primates show similar skill in estimating uncertain outcomes during quantity judgments. Paper presented at Behaviour 2013, a joint meeting of the 33rd International Ethological Conference and the Association for the Study of Animal Behaviour, Newcastle, United Kingdom.

Evans, T. A., Perdue, B. M., & Beran, M. J. (August, 2013). Planning to remember: Prospective memory in language-trained chimpanzees (*Pan troglodytes*). Paper presented at Behaviour 2013, a joint meeting of the 33rd International Ethological Conference and the Association for the Study of Animal Behaviour, Newcastle, United Kingdom.

Perdue, B. M., Evans, T. A., **Bramlett, J. L.**, & Beran, M. J. (August, 2013). Waiting for what comes later: Capuchin monkeys show self-control even for nonvisible delayed rewards. Paper presented at Behaviour 2013, a joint meeting of the 33rd International Ethological Conference and the Association for the Study of Animal Behaviour, Newcastle, United Kingdom.

Talbot, C. F., Leverett, K., Mayo, I., Stoinski, T., Beran, M. J., & Brosnan, S. F. (July, 2013). Facial discrimination in nonhuman primates. Poster presented at the 50th Annual Conference of the Animal Behavior Society, Boulder, CO.

Beran, M. J. (June, 2013). Keeping track of what went where: Chimpanzees (*Pan troglodytes*) accurately judge concurrently accumulating quantities. Paper presented at the 36th annual meeting of the American Society of Primatologists, San Juan, Puerto Rico.

Brosnan, S. F., Beran, M. J., Wilson, B. J., & **Parrish, A. E.** (June, 2013). Strategic responding by rhesus monkeys (*Macaca mulatta*) and humans (*Homo sapiens*) to variable simulated opponents in a coordination game. Paper presented at the 36th annual meeting of the American Society of Primatologists, San Juan, Puerto Rico.

Heimbauer, L. A., Beran, M. J., & Owren, M. J. (June, 2013). Cognitive restoration of time-reversed speech by a chimpanzee (*Pan troglodytes*). Paper presented at the 36th annual meeting of the American Society of Primatologists, San Juan, Puerto Rico.

Parrish, A. E., Perdue, B. M., Evans, T. A., & Beran, M. J. (June, 2013). Chimpanzees (*Pan troglodytes*) transfer token to accumulate rewards in a self-control task. Paper presented at the 36th annual meeting of the American Society of Primatologists, San Juan, Puerto Rico.

[Finalist – Outstanding Student Paper competition]

Perdue, B., **Gonsiorowski, A.**, Beran, M., Evans, T., & Williamson, R. (April, 2013). Prospective memory and delay of gratification in 3-year-old children. Poster presented at the biennial meeting of the Society for Research in Child Development, Philadelphia, PA.

Beran, M. J., Perdue, B. M., **Parrish, A. E.**, & Evans, T. A. (March, 2013). Do social conditions affect capuchin monkeys' estimations during quantity

judgments? Paper presented at the 59th annual meeting of the Southeastern Psychological Association, Atlanta, GA.

Parrish, A. E., Brosnan, S. F., & Wilson, B. J. (March, 2013). Rhesus monkeys strategically respond to variable partner play in a coordination game. Poster presented at the 59th annual meeting of the Southeastern Psychological Association, Atlanta, GA.

Price, S. A., Beran, M. J., Wilson, B. J., & Brosnan, S. F. (March, 2013). Responses to an anti-coordination game in capuchin monkeys (*Cebus apella*). Paper presented at the 59th annual meeting of the Southeastern Psychological Association, Atlanta, GA.

Bramlett, J., Perdue, B. M., Evans, T. A., & Beran, M. J. (February, 2013). This too shall pass: A rotating reward tray shows delay of gratification in capuchin monkeys. Paper presented at the 105th annual meeting of the Southern Society for Philosophy and Psychology, Austin, TX.

[Winner - SSPP Graduate Student Travel Grant Award]

Evans, T. A., Perdue, B. M., **Parrish, A. E.**, Beran, M. J. (February, 2013). The question of capuchin monkey self-control: What are we really asking? Paper presented at the 105th annual meeting of the Southern Society for Philosophy and Psychology, Austin, TX.

Heimbauer, L. A., Beran, M. J., & Owren, M. J. (February, 2013). Evidence for cognitive restoration of time-reversed speech by a chimpanzee (*Pan troglodytes*). Paper presented at the 105th annual meeting of the Southern Society for Philosophy and Psychology, Austin, TX.

Zakrzewski, A. C., Perdue, B. M., Beran, M. J., Church, B. A., & Smith, J. D. (November, 2012). Cashing out: macaques' and humans' decisional flexibility of uncertainty responding. Poster presented at the 53rd annual meeting of the Psychonomic Society, Minneapolis, MN.

Beran, M. J., Smith, J. D., & Perdue, B. M. (August, 2012). Chimpanzees name when they know and look when they do not know. Paper presented at the 24th Congress of the International Primatological Society meeting, Cancun, Mexico.

Perdue, B. M., Evans, T. E., **Bramlett, J. L.**, Menzel, C. R., & Beran, M. J. (August, 2012). Looking to the future: Prospective memory in chimpanzees (*Pan troglodytes*). Paper presented at the 24th Congress of the International Primatological Society meeting, Cancun, Mexico.

Beran, M. J., (July, 2012). Comparative approaches to delay of gratification. Paper presented at the 30th International Congress of Psychology, Cape Town, South Africa.

Perdue, B. M., & Beran, M. J. (July, 2012). Chimpanzees (*Pan troglodytes*) know what they know. Paper presented at the 30th International Congress of Psychology, Cape Town, South Africa.

Price, S. A., Beran, M. J., Wilson, B. J., & Brosnan, S. F. (June, 2012). Responses to an anti-coordination game in capuchins (*Cebus apella*) and humans (*Homo sapiens*). Poster presented at the 35th annual meeting of the American Society of Primatologists, Davis, CA.

Beran, M. J. (March, 2012). What went where? Chimpanzees accurately judge concurrently accumulating quantities. Paper presented at the 104th annual meeting of the Southern Society for Philosophy and Psychology, Savannah, GA.

Beran, M. J., **Coutinho, M.**, Church, B. J., & Smith, J. D. (March, 2012). Executive-attentional uncertainty responses by rhesus monkeys (*Macaca mulatta*). Paper presented at the 19th Annual International Conference on Comparative Cognition, Melbourne Beach, FL.

Bramlett, J., Evans, T. A., Perdue, B. M., Menzel, E., & Beran, M. J. (March, 2012). This too can pass: Capuchin monkeys let lesser rewards pass by to get better rewards. Poster presented at the 19th Annual International Conference on Comparative Cognition, Melbourne Beach, FL.

Couchman, J. J., **Boomer, J.**, Beran, M. J., & Smith, J. D. (March, 2012). Unsupervised learning and metacognition in rhesus monkeys using intuitive tasks. Paper presented at the 19th Annual International Conference on Comparative Cognition, Melbourne Beach, FL.

Couchman, J. J., **Boomer, J.**, Beran, M. J., Smith, J. D. (March, 2012). Uncertainty monitoring under supervised learning conditions in humans and monkeys. Paper presented at the 104th annual meeting of the Southern Society for Philosophy and Psychology, Savannah, GA.

Evans, T. A. & Beran, M. J. (March, 2012). Monkeys exhibit prospective memory in a computerized task. Paper presented at the 104th annual meeting of the Southern Society for Philosophy and Psychology, Savannah, GA.

Evans, T. A., **Bramlett, J.**, Perdue, B. M., & Beran, M. J. (March, 2012). Prospective memory in a language-trained chimpanzee. Paper presented at the 19th Annual International Conference on Comparative Cognition, Melbourne Beach, FL.

Heimbauer, L. A., Beran, M. J., & Owren, M. J. (March, 2012). A chimpanzee uses similar acoustic cues as humans when identifying sine-wave, noise-

vocoded, and time-reversed speech. Poster presented at the 19th Annual International Conference on Comparative Cognition, Melbourne Beach, FL.

Heimbauer, L. A., Beran, M. J., & Owren, M. J. (March, 2012). A chimpanzee and humans respond similarly to the spectro-temporal cues in sine-wave and noise-vocoded speech. Paper presented at the 104th annual meeting of the Southern Society for Philosophy and Psychology, Savannah, GA.

Hoffman, M. L., Beran, M. J., Williamson, R., Kleider, H. & Washburn, D. A. (March, 2012). Agency and environmental context in working memory: A comparative test of rhesus monkeys and 3 – 4 year old children. Paper presented at the 104th annual meeting of the Southern Society for Philosophy and Psychology, Savannah, GA.

Hoffman, M. L., Beran, M. J., & Williamson, R. A., & Washburn, D. A. (March, 2012). Did I do that?: Investigating agency and WWW memory in rhesus monkeys and children. Poster presented at the 19th Annual International Conference on Comparative Cognition, Melbourne Beach, FL.

Parrish, A. E., Brosnan, S. F., & Beran, M. J. (March, 2012). I'll work for you, and you work for me: Oh wait, you might not matter. Poster presented at the 19th Annual International Conference on Comparative Cognition, Melbourne Beach, FL.

Perdue, B. M., Evans, T. A., & Beran, M. J. (March, 2012). What's all the bias about? Learning effects contribute to cognitive bias in nonhuman primates. Paper presented at the 19th Annual International Conference on Comparative Cognition, Melbourne Beach, FL.

COURSES TAUGHT:

Animal Learning and Behavior – GSU (lab section) - 1997-1998

Cognitive Psychology – Spelman College – 2003-2007

Psychology of Learning – Spelman College – 2003-2007

Cognitive Psychology – GSU - 2008

Natural Science Aspects of Psychology – GSU – 2009-2010

Psychology of Learning – GSU - 2013

The Psychology of Good (and Bad) Decision Making - GSU – 2013-2016