

John David Smith

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Education

1982, August	Ph. D., Psychology, University of Pennsylvania (supervised by D. G. Kemler Nelson and J. Baron)
1979-1981	<i>Danforth Foundation Fellowship</i>
1980, May	M. A., Psychology, University of Pennsylvania
1978-1979	<i>Dean's Fellowship</i> , University of Pennsylvania
1977-1978	<i>Teaching Fellowship</i> , University of Pennsylvania
1977, May	M. S. Ed., Early Childhood Education, Bank Street College of Education
1975, May	B. A., Anthropology, Yale University, <i>cum laude</i>

Professional Experience

1992-present	Department of Psychology Center for Cognitive Science University at Buffalo, The State University of New York
1982-1991	Department of Psychology Graduate Faculty New School for Social Research

- 1977-1982 Department of Psychology
University of Pennsylvania (graduate study)
M. A., Ph. D., cognitive psychology
- 1975-1977 Bank Street College of Education (graduate study)
M. S. Ed., early-childhood education
- 1975-1977 *Teacher Corps* intern and teacher
Spanish Harlem, New York City
(teacher—6th grade science, 4th grade, pre-kindergarten;
science-fair coordinator)

Recent Grants

Visual Search and the Collapse of Categorization: A Comparative Perspective (Pending)

Smith, PI
5/1/16 to 4/30/20
\$586,000
National Institutes of Health

The goal of this project is to study the difficult visual search and categorization problem faced by security screeners.

Disentangling Associative and Explicit-Executive Processes: Studies in Humans and Primates (Pending)

Smith, PI
7/1/16 to 6/30/21
\$1,586,000
National Institute of Child Health and Human Development

The goal of this project is to study the evolutionary origins of humans' capacity for explicit, rule-guided categorization.

Multiple Systems of Categorization in Humans and Nonhuman Primates (Active)

Smith, PI
9/15/10 to 9/14/15
\$679,000
National Institute of Child Health and Human Development

The goal of this project is to study implicit and explicit categorization comparatively across humans and the primates.

Metacognition in Comparative Perspective (Active)

Smith, PI
4/1/10 to 1/31/15
\$1,100,000
National Institute of Child Health and Human Development

The goal of this project is to study uncertainty monitoring and metacognition comparatively across humans and the primates.

Metacognition in Comparative Perspective (Active)

Smith, PI
7/1/10 to 6/30/15
\$225,000
National Science Foundation

The goal of this project is to study uncertainty monitoring and metacognition comparatively across humans and the primates.

*Comparative Studies of Category Learning by Humans and Nonhuman Primates:
ARRA Administrative Supplement (Completed)*

Smith, PI
9/30/09 to 9/29/10
\$30,000
National Institute of Child Health and Human Development

The goal of this project was to study categorization comparatively across humans and the primates.

*Comparative Studies of Uncertainty Monitoring and Metacognition by Humans and
Nonhuman Primates (Completed)*

Smith, PI
10/1/06 to 8/31/10
\$216,000
National Science Foundation

The goal of this project was to study uncertainty monitoring and metacognition comparatively across humans and the primates.

Comparative Studies of Category Learning by Humans and Nonhuman Primates (Completed)

Smith, PI
10/1/04 to 9/30/09
\$387,000
National Institute of Child Health and Human Development

The goal of this project was to study categorization comparatively across humans and the primates.

Attention and Uncertainty Monitoring in Threat Categorization (Completed)

Smith, PI
3/1/02 to 12/31/03
\$112,000
Federal Aviation Administration and Transportation Security Administration

The goal of this project was to study the difficult categorization problem that airport X-ray screeners face, and to find ways to improve the level of threat detection within the security system.

The Emergence of Uncertainty Monitoring and Metacognition (Completed)

Smith, PI
10/1/99 to 9/30/04
\$340,000
National Institute of Child Health and Human Development

The goal of this project was to seek phylogenetic continuities and discontinuities in the capacities for metacognition and uncertainty monitoring.

Publications

Smith, J. D., Zakrzewski, A. C., & Church, B. A. (2015). Formal models in animal-metacognition research: The problem of interpreting animals' behavior. In press, *Psychonomic Bulletin Review*.

Beran, M. J., Perdue, B. M., Church, B. A., & Smith, J. D. (2015). Capuchin monkeys (*Cebus apella*) modulate their use of an uncertainty response depending on risk. *Journal of Experimental Psychology: Animal Learning and Cognition*. On-line first publication (2015, November 9).

Paul, E. J., Smith, J. D., Valentin, V. V., Barbey, A. K., & Ashby, F. G. (2015). Neural networks of the psychophysical uncertainty response. *Cortex*, 71, 306-322.

- Smith, J. D., & Ell, S. (2015). One giant leap for categorizers: one small step for categorization theory. *PLOS One*. doi: 10.1371/journal.pone.0137334.
- Smith, J. D., Johnston, J. J. R., Musgrave, R. D., Zakrzewski, A., Boomer, J. Church, B. Smith, J. D., Zakrzewski, A. C., Johnston, J. J. R., Roeder, J., Boomer, J., Ashby, F. G., & Church, B. A. (2015). Generalization of category knowledge and dimensional categorization in humans (*Homo sapiens*) and nonhuman primates (*Macaca mulatta*). *Journal of Experimental Psychology: Animal Learning and Cognition*, *41*, 322-335.
- Beran, M. J., Perdue, B. M., Futch, S. E., Smith, J. D., Evans, T. A., & Parrish, A. E. (in press). Go when you know: Chimpanzees' confidence movements reflect their responses in a computerized memory task. *Cognition*, *142*, 236-246.
- Smith, J. D., Zakrzewski, A. C., Herberger, E., Boomer, J., Roeder, J., Ashby, F. G. & Church, B. A. (2015). The time course of explicit and implicit categorization. *Attention, Perception, and Psychophysics*, *77*, 2476-2490.
- 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.
- Zakrzewski, A. C., Johnson, J. M. & Smith, J. D. (2016). The comparative psychology of metacognition. In press, J. Call (Ed.), *APA handbook of comparative psychology: Vol. 2, Evolution, neural development, and substrate*. Washington, DC: American Psychological Association.
- Washburn, D. A., Beran, M. J., & Smith, J. D. (2016). Metamemory in comparative context. In press, J. Dunlosky & U. Tauber (Eds.), *Oxford Handbook of Metamemory*. New York: Oxford University Press.
- Coutinho, M. V. C., Redford, J. S., Church, B. A., Zakrzewski, A. C., Couchman, J. J., & Smith, J. D. (2015). The interplay between uncertainty monitoring and working memory: Can metacognition become automatic? *Memory & Cognition* *43*, 990-1006.
- Sayers, K. Evans, T. A., Menzel, E., Smith, J. D., & Beran, M. J. (2015). The misbehavior of a metacognitive monkey. *Behavior*, *152*, 727-756.
- Zakrzewski, A. C., Perdue, B., 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.
- Smith, J. D., Johnston, J. J. R., Musgrave, R. D., Zakrzewski, A. C., Boomer, J., Church, B. A., & Ashby, F. G. (2014). Cross-modal information integration in category learning. *Attention, Perception, & Psychophysics*, *76*, 1473-84.

- Beran, M. J., Perdue, B. M., & Smith, J. D. (2014). What are my chances? Closing the gap in uncertainty monitoring by rhesus monkeys (*Macaca mulatta*) and capuchin monkeys (*Cebus apella*). *Journal of Experimental Psychology: Animal Learning and Cognition*, *40*, 303-316.
- Zakrzewski, A. C., Coutinho, M. V. C., Boomer, J., Church, B. A., & Smith, J. D. (2014). Decision deadlines and uncertainty monitoring: The effect of time constraints on uncertainty and perceptual responses. *Psychonomic Bulletin and Review*, *21*, 763-770.
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- Smith, J. D., Couchman, J. J., & Beran, M. J. (2014). A tale of two comparative psychologies: Reply to Commentaries. *Journal of Comparative Psychology*, *128*, 140-142.
- 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. (2014). Prototypes, exemplars, and the natural history of categorization. *Psychonomic Bulletin and Review*, *21*, 312-331.
- Smith, J. D., Boomer, J., Zakrzewski, A. C., Roeder, J., Church, B. A., & Ashby, F. G. (2014). Deferred feedback sharply dissociates implicit and explicit category learning. *Psychological Science*, *25*, 447-457.
- Smith, J. D., Couchman, J. J., & Beran, M. J. (2014). The highs and lows of theoretical interpretation in animal metacognition research. In S. M. Fleming and C. D. Frith (Eds.), *The cognitive neuroscience of metacognition* (pp. 87-111). New York: Springer.
- Smith, J. D., Flemming, T. M., Boomer, J., Beran, M. J., & Church, B. A. (2013). Fading perceptual resemblance: A path for macaques to conceptual matching? *Cognition*, *129*, 598-614.
- Smith, J. D., Coutinho, M. V. C., Church, B. A., & Beran, M. J. (2013). Executive-attentional uncertainty responses by rhesus macaques (*Macaca mulatta*). *Journal of Experimental Psychology: General*, *142*, 458-475.
- 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.
- Couchman, J. J., Beran, M. J., Coutinho, M. V. C., Boomer, J., & Smith, J. D. (2012). Evidence for animal metaminds. In Beran, M. J., Brandl, J., Perner, J., & Proust, J. (Eds.), *The foundations of metacognition*. Oxford, UK: Oxford University Press.

- Smith, J. D., Berg, M. E., Cook, R. G., Boomer, J., Crossley, M. J., Murphy, M. S., Spiering, B., Beran, M. J., Church, B. A., Ashby, F. G., & Grace, R. C. (2012). Implicit and explicit categorization: A tale of four species. *Neuroscience and Biobehavioral Reviews*, *36*, 2355-2369.
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- Beran, M. J., Decker, S., Schwartz, A., & Smith, J. D. (2012). Uncertainty monitoring by young children in a computerized task. *Scientifica*, 2012, Article ID 692890.
- Couchman, J. J., Beran, M. J., Coutinho, M. V. C., Boomer, J., Zakrzewski, A., Church, B., & 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.
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- Smith, J. D., Coutinho, M. V. C., Boomer, J., & Beran, M. J. (2012). *Metacognition across species*. In J. Vonk and T. K. Shackelford (Eds.), *The Oxford Handbook of Comparative Evolutionary Psychology* (pp. 271-294). Oxford University Press. Oxford, UK.
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- Paul, E., Boomer, J., Smith, J. D., & Ashby, F. G. (2011). Information-integration category learning and the human uncertainty response. *Memory and Cognition*, *39*, 536-554.
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- Smith, J. D., Coutinho, M. V. C., & Couchman, J. J. (2011). The learning of exclusive-or categories by monkeys (*Macaca mulatta*) and humans (*Homo sapiens*). *Journal of Experimental Psychology: Animal Behavior Processes*, 37, 20-29.
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- Couchman, J. J., Coutinho, M. V. C., & Smith, J. D. (2010). Rules and resemblance: Their changing balance in the category learning of humans (*Homo sapiens*) and monkeys (*Macaca mulatta*). *Journal of Experimental Psychology: Animal Behavior Processes*, 36, 172-183.
- Smith, J. D., Chapman, W. P., & Redford, J. S. (2010). Stages of category learning in monkeys (*Macaca mulatta*) and humans (*Homo sapiens*). *Journal of Experimental Psychology: Animal Behavior Processes*, 36, 39-53.
- Beran, M. J., Coutinho, M. V. C., Couchman, J. J., Boomer, J., Washburn, D. A., & Smith, J. D. (2009). Metacognition in animals. In C. B. Larson (Ed.), *Metacognition: New research developments* (pp. 21-41). New York: Nova Science Publishers.

- Smith, J. D. (2009). The study of animal metacognition. *Trends in Cognitive Sciences*, 13, 389-396.
- Smith, J. D., Redford, J. S., & Haas, S. M. (2009). The comparative psychophysics of complex shape perception. *Animal Cognition*, 12, 809-821.
- Smith, J. D., Beran, M. J., Couchman, J. J., Coutinho, M. V. C., & Boomer, J. (2009). Animal metacognition: Problems and prospects. *Comparative Cognition and Behavior Reviews*, 4, 40-53.
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- Couchman, J. J., Coutinho, M. V. C., Beran, M. J., & Smith, J. D. (2009). Metacognition is prior. Commentary on P. Carruthers, How we know our own minds: the relationship between mindreading and metacognition. *The Behavioral and Brain Sciences*, 32, 142.
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- Smith, J. D., Redford, J. S., Haas, S. M., Coutinho, M. V. C., & Couchman, J. J. (2008). The comparative psychology of same-different judgments by humans (*Homo sapiens*) and monkeys (*Macaca mulatta*). *Journal of Experimental Psychology: Animal Behavior Processes*, 34, 361-374.
- Smith, J. D., Beran, M. J., Coutinho, M. V. C., & Couchman, J. J. (2008). The comparative study of metacognition: Sharper paradigms, safer inferences. *Psychonomic Bulletin and Review*, 15, 679-691.
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Smith, J. D. (1987). Conflicting aesthetic ideals in a musical culture. *Music Perception*, 4, 373-392.

Smith, J. D., & Kemler Nelson, D. G. (1984). Overall similarity in adults' classification: the child in all of us. *Journal of Experimental Psychology: General*, 113, 137-159.

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Homeland Security Research

In collaboration with the *Federal Aviation Administration* and the *Transportation Security Administration*, I have studied the difficult threat-recognition problem that airport X-ray screeners face and explored ways to improve the level of threat detection within the security system. This research shows that the visual search for threat targets elicits highly-specific exemplar-recognition processes that generalize poorly to novel tokens of target/threat categories. One sees a remarkable “heartbeat” in detection performance—it improves while familiar targets repeat, but falls dramatically when familiar targets are replaced with novel members of the same threat category (e.g., novel knives, guns, or scissors). The security concern raised by this finding is that actual threats will generally be novel tokens from outside the training set that has been used to prepare screeners, and so these actual threats may tend to be less well detected by screeners. This research illuminates the fundamental nature and problem of threat detection, and it has profound and sobering implications for applied security domains.

Smith, J. D. (2003). *Familiarity and Specific-token Effects in the Screening Situation: Implications for the Threat Image Projection System of Evaluation*. Secure technical report summarizing Phase I of research conducted at the University at Buffalo under Contract 02-0G-009 from the *Federal Aviation Administration*.

Smith, J. D. (2004). *Sampling from an Infinite Library in the Screening Situation: Recommendations for Threat Image Projection Systems of Evaluation*. Secure technical report summarizing Phase II of research conducted at the University at Buffalo under Contract 02-0G-009 from the *Federal Aviation Administration*.

Smith, J. D. (2004). *Overlap and Complexity Effects in the Screening Situation: Separating and Measuring Their Disruptive Effects on Performance*. Secure technical report summarizing Phase III of research conducted at the University at Buffalo under Contract 02-0G-009 from the *Federal Aviation Administration*.

Smith, J. D., Redford, J. S., Gent, L. C., & Washburn, D. A. (2005). Visual search and the collapse of categorization. *Journal of Experimental Psychology: General*, 134, 443-460.

Smith, J. D., Redford, J. S., Washburn, D. A., & Tagliatela, L. A. (2005). Specific-token effects in screening tasks: Possible implications for aviation security. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 31, 1171-1185.

Recent Presentations (International)

Smith, J. D. (2015, August). Toward a natural history of categorization. Invited address given at the Annual Convention of the American Psychological Association, Toronto, ON, Canada.

Baum, M. J., & Smith, J. D. (2013, November) Self-report in rhesus macaques? Paper presented at the fall meeting of the Comparative Cognition Society, Toronto, CA.

Beran, M. J., Perdue, B. M., Church, B. A., & Smith, J. D. (2013, November) 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, CA.

Boomer, J., Zakrzewski, A., Johnston, J. R., & Church, B. A. (2013, November) Category learning strategies in two-dimensional, two-modality learning tasks. Paper Presented at the 54th Annual Meeting of the Psychonomic Society, Toronto, CA.

Zakrzewski, A. C., Johnston, J. J. R., Roeder, J. Boomer, J., Ashby, F. G., Church, B. A., & Smith, J. D. (November, 2013) Analogical transfer of categorization in humans (*Homo sapiens*) and monkeys (*Macaca mulatta*). Paper presented at the fall meeting of the Comparative Cognition Society, Toronto, CA.

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

Smith, J. D., & Beran, M. J. (2009, October). Animal metacognition: The extended mind in self-interaction. Paper presented at the closing conference of the EUROCORRS program Consciousness in a Natural and Cultural Context. Edinburgh, Scotland.

Smith, J. D. (2009, August). How (not) to study animal metacognition. Paper presented at the annual meeting of the *American Psychological Association*. Toronto, CA.

Smith, J. D., & Beran, M. J. (2009, July). Recent developments in research on animal metacognition. Paper presented at the conference *Metacognition and Mindreading*, sponsored by the *European Science Foundation*. Salzburg, Austria.

Boomer, J.B., Paul, E.J., Couchman, J.J., Coutinho, M.V.C., Beran, M.J., Ashby, F.G., Smith, J.D. (2009, July). Discerning the cognitive level of the uncertain response in humans and rhesus macaques (*Macaca mulatta*). Paper presented at the conference *Metacognition and Mindreading*, sponsored by the *European Science Foundation*. Salzburg, Austria.

- Couchman, J. J., Beran, M. J. & Smith, J. D. (2009, July). Animal metacognition: Cognitive and temporally extended. Paper presented at the conference *Metacognition and Mindreading*, sponsored by the *European Science Foundation*. Salzburg, Austria.
- Beran, M. J., & Smith, J. D. (2009, July). Beyond uncertainty monitoring: primate responses to incomplete information and temptation. Paper presented at the conference *Metacognition and Mindreading*, sponsored by the *European Science Foundation*. Salzburg, Austria.
- Smith, J. D. (2008, July). Animal metacognition. Paper presented at the *EuroScience Open Forum (ESOF 2008)*. Barcelona, Spain.
- Beran, M. J., Smith, J. D., & Couchman, J. J. (2008, May). Metacognition in non-humans: methodological and theoretical issues. Paper presented at the 3rd biennial meeting of the *EARLI Special Interest Group on Metacognition*. Ioannina, Greece.
- Smith, J. D., Coutinho, M. V. C., Couchman, J. J., & Beran, M. J. (2007, July). The psychological organization of "uncertainty" responses and "middle" responses: A dissociation in capuchin monkeys (*Cebus apella*). Paper presented at the conference *Fallibilities, Illusion, and Metacognition*. Paris, France.
- Smith, J. D., Beran, M. J., & Redford, J. S. (2007, July). Generalizeable uncertainty responses in the comparative study of metacognition. Paper presented at the meeting of the *Experimental Psychology Society*. Edinburgh, Scotland.
- Smith, J. D. (2006, June). Uncertainty monitoring and metacognition by humans and nonhuman animals. Invited plenary address presented at the 10th annual meeting of the *Association for the Scientific Study of Consciousness*. St. Anne's College, Oxford, UK.
- Beran, M. J., Smith, J. D., Redford, J. S., & Washburn, D. A. (2005, November). Rhesus monkeys (*Macaca mulatta*) monitor uncertainty during numerosity judgments. Paper presented at the 46th annual meeting of the *Psychonomic Society*. Toronto, CA.
- Redford, J. S., Bogdan, M., Smith, J. D., & Washburn, D. A. (2005, November). Uncertainty monitoring by humans and rhesus macaques (*Macaca mulatta*) in the categorization of multidimensional stimuli. Paper presented at the 46th annual meeting of the *Psychonomic Society*. Toronto, CA.
- Smith, J. D. (2005, April). Uncertainty monitoring and metacognition by humans and non-human animals. Invited address presented at the APIC International Conference: *From Metacognition to Self-Other Awareness*. Institut Jean-Nicod--CNRS-EHESS-ENS; RESCIF. Paris, France.

- Smith, J. D. (2004, November). Visual search, categorization, and airport security screening: Why screeners miss weapons. Colloquium presented to the Department of Psychology, University of Western Ontario. London, CA.
- Washburn, D. A., Baker, L. A., Tagliatela, J. P., & Smith, J. D. (2003, November). Individual differences in uncertainty monitoring and in x-ray threat detection. Paper presented at the annual meeting of the *Psychonomic Society*. Vancouver, CA.
- Smith, J. D. (2003, June). Wanted: A new psychology of exemplars. Paper presented at the festschrift conference honoring the career of Lee Brooks. McMaster University, Hamilton, CA.
- Smith, J. D., & Shields, W. E. (1996, August). Exploring human and animal uncertainty. Keynote address presented at the *8th International Conference on Systems Research, Informatics, and Cybernetics*. Baden-Baden, Germany.
- Allendoerfer, K. R., Washburn, D. A., Shields, W. E., & Smith, J. D. (1996, August). Metamemory processes of humans and rhesus monkeys in a serial probe recognition task. Paper presented at the *26th International Congress of Psychology*. Montreal, CA.
- Shields, W. E., Washburn, D. A., & Smith, J. D. (1996, August). Challenging rhesus monkeys' capacity to make uncertain responses in a same-different task. Paper presented at the *26th International Congress of Psychology*. Montreal, CA.
- Smith, J. D., Shields, W. E., Washburn, D. A., & Allendoerfer, K. R. (1994, August). Indifferent differences: the uncertain response of humans and animals in a relational-judgment task. Keynote address presented to the *7th International Conference on Systems Research, Informatics and Cybernetics*. Baden-Baden, Germany.
- Smith, J. D. (1993, April). The art of knowing when you don't know: uncertainty monitoring in humans, monkeys, and dolphins. Colloquium presentation at the Department of Psychology, McMaster University. Hamilton, CA.
- Schull, J., Smith, J. D., & Washburn, D. (1992, August). Uncertainty monitoring in the rhesus monkey (*Macaca mulatta*). Paper presented at the *14th Congress of the International Primatological Society*. Strasbourg, France.
- Smith, J. D., & Schull, J. (1992, August). Uncertainty monitoring in humans, monkeys, dolphins, and artificial neural nets? Keynote address presented at the *6th International Conference on Systems Research, Informatics and Cybernetics*. Baden-Baden, Germany.

Recent Presentations (United States)

- Futch, S. E., Parrish, A. E., Perdue, B. M., Smith, J. D., Evans, T. A., & Beran, M. J. (2015, October). Confidence judgments by chimpanzees during computerized memory testing. Poster presented at the Psychology Undergraduate Research Conference (PURC) at Georgia State University, Atlanta GA.
- Beran, M. J., Perdue, B. M., Smith, J. D., Futch, S., Evans, T. A., & Parrish, A. E. (2015, May). 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. (2015, April). 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.
- Zakrzewski, A. C., Church, B. A., Johnson, J. M., Boomer, J., Ashby, F. G., & Smith, J. D. (2015, November). Can rhesus macaques (*Macaca mulatta*) transfer category knowledge when reinforcement is deferred? 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. (2015, November). Information-seeking behavior and confidence judgments by chimpanzees. Poster presented at the annual meeting of the Society for Judgment and Decision Making, Chicago, IL.
- Boomer, J., Church, B.A., Smith, J.D. (2015, November). The effect of labeling on learning to categorize complex forms. Presented at the 56th Annual Meeting of the Psychonomic Society. Chicago.
- 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.
- Johnson, J. M., Boomer, J. Zakrzewski, A. C., Church, B. A., & Smith, J. D. (2015, April). Extending Garner classification tasks to non-human primates. Paper presented at the 107th Annual Meeting of the Southern Society for Philosophy and Psychology, New Orleans, LA.
- Rice, C. L., Church, B. A., & Smith, J. D. (2015, April). Specific token effects in complex visual search: A human phenomenon? Paper presented at the 107th Annual Meeting of the Southern Society for Philosophy and Psychology, New Orleans, LA.
- Beran, M. J., Smith, J. D., & Purdue, B. M. (2015, April). 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.

Boomer, J., Church, B. A., Zakrzewski, A. C., Baum, M. L., Beran, M. J., & Smith, J. D. (2014, November). Chronometrics of solving a temporally extended problem in humans and rhesus monkeys. Paper presented at the 55th annual Comparative Cognition Society, Long Beach, CA

Beran, M. J., Evans, T. A., Parrish, A. E., & Perdue, B. M. (2104, November). 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.

Zakrzewski, A. C., Boomer, J., Valentin, V., Roeder, J. L., Ashby, F. G., Church, B. A., & Smith, J. D. (2014, November). Transferring category knowledge when reinforcement is deferred. Paper presented at the Annual Meeting of the Psychonomic Society, Long Beach, CA.

Smith, J. D. (2014, February). Toward a natural history of categorization. Colloquium presentation at Georgia State University, Department of Psychology. Atlanta, GA.

Baum, M. J., & Smith, J. D. (February, 2014) Implicit and explicit category learning in a discrimination reversal task. Paper presented at the 106th Annual Meeting of the Southern Society for Philosophy and Psychology, Charleston, SC.

Boomer, J., Church, B., Zakrzewski, A. Baum, M., Beran, & 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. Church, B. A. & 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.

Boomer, J., Zakrzewski, A., Johnston J. J., Roeder, J., Ashby F. G., Church, B. A. & Smith, J. D. (2013, March). Analogical transfer of decision rules in humans and rhesus monkeys. Presented at the 105th Annual Meeting of the Southern Society for Philosophy and Psychology, Austin, TX.

Smith, J. D. (2013, March). When categorization collapses: Specific-token effects in security screening and medical diagnosis. Presented at the 105th Annual Meeting of the Southern Society for Philosophy and Psychology, Austin, TX.

Coutinho, M. V. C., Church, B. A., & Smith, J. D. (2012, November). Perceptual information influences JOLs and study time control. Presented at the 53rd Annual Meeting of the Psychonomic Society, Minneapolis, MN.

Zakrzewski, A. C., Perdue, B. M., Beran, M. J., Church, B. A., & Smith, J. D. (2012, November). Cashing Out: The decisional flexibility of uncertainty responses in

rhesus macaques (*Macaca mulatta*) and Humans (*Homo sapiens*). Presented at the 53rd Annual Meeting of Psychonomics Society, Minneapolis, MN.

Smith, J. D. (2012, March). The highs and lows of theoretical interpretation in animal-metacognition research. Presidential Address presented at the 104th Annual Meeting of the Southern Society for Philosophy and Psychology, Savannah, Georgia.

Zakrzewski, A. C., Church, B. A., & Smith, J. D. (2012, March). Decision deadlines and uncertainty monitoring: The effect of time limits on uncertainty and perceptual responses. Presented at the 104th Annual Meeting of the Southern Society for Philosophy and Psychology. Savannah, Georgia.

Leib, J., Boomer, J., Continuo, M. V. C., Church, B. A., & Smith, J. D. (2012, March). Category learning strategies in a cross modal categorization learning task. Presented at the 104th Annual Meeting of the Southern Society for Philosophy and Psychology, Savannah, GA.

Coutinho, M. V. C., Redford, J. S., Church, B. A., Couchman, J. J., & Smith, J. D. (2012, March). The role of working memory in uncertainty monitoring. Presented at the 104th Annual Meeting of the Southern Society for Philosophy and Psychology, Savannah, GA.

Couchman, J. J., Boomer, J., Beran, M. J., & Smith, J. D. (2012, March). Uncertainty monitoring under unsupervised learning conditions in humans and monkeys. 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. (2012, March). Executive-attentional uncertainty responses by rhesus monkeys (*Macaca mulatta*). Presented at the 19th Annual International Conference on Comparative Cognition, Melbourne Beach, FL.

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

Boomer, J., Smith, J. D., Church, B. A., Beran, M. J., Crossley, M. J., & Ashby, F. G. (2011, November). Category learning in capuchin monkeys. Presented at the fall 2011 meeting of the Comparative Cognition Society. Seattle, WA.

Boomer, J., Couchman, J. J., Beran, M. J., & Smith, J. D. (2011, November). Dissociating performance and uncertainty monitoring from reinforcement in humans. Poster presented at the 52nd Annual Meeting of the Psychonomic Society, Seattle, WA.

Zakrzewski, A. C., Church, B. A., & Smith, J. D. (2011, November). The time course of uncertainty and perceptual responses. Presented at the 52nd Annual Meeting of the Psychonomic Society, Seattle, WA.

Smith, J. D. (2011, October). Animal Metacognition. Psychology Fair Keynote Speaker, Niagara University, Niagara Falls, NY.

Boomer, J., Smith, J. D., Beran, M. J., Church, B. A., Crossley, M. J., & Ashby, F. G. (2011, March). Category learning strategies in a new world monkey species: (*Cebus apella*). Paper presented at the 103rd Annual Meeting of the Southern Society for Philosophy and Psychology, New Orleans, LA.

Smith, J. D. (2011, February). Animal Metacognition. Colloquium presented to the Mind, Brain, and Evolution Cluster, Mind Brain Institute, The George Washington University. Washington DC.

Smith, J. D. (2011, February). Recent developments in the study of animal metacognition. Presented at the symposium "Thinking About Thinking: How Do We Know What We Know?" at the 2011 meeting of the American Academy for the Advancement of Science. Washington DC.

Smith, J. D. (2011, February). Animal Metacognition. Colloquium presented to the Program in Evolution, Ecology, and Behavior, University at Buffalo, The State University of New York. Buffalo NY.

Coutinho, M. V. C., Boomer, J., Church, B. A., & Smith, J. D. (2010, November). Confidence ratings of performance based on learning with and without awareness. Presented at the 51st Annual Meeting of the *Psychonomic Society*, St. Louis, MO.

Smith, J. D. (2010, November). Animal Metacognition. Colloquium presented to the Cognitive Science Program, The University of Arizona. Tucson AZ.

Coutinho, M. V. C., Redford, J. S., Couchman, J. J., Church, B. A., & Smith, J. D. (2010, November). The role of attentional resources in uncertainty responding. Presentation at the 3rd annual Comparative Cognition and Learning Fall Conference, sponsored by the *Comparative Cognition Society*, St. Louis, MO.

Beran, M. J., & Smith, J. D. (2010, November). Information seeking and the comparative study of metacognition. Paper presented at the 51st annual Meeting of the *Psychonomic Society*. St. Louis, MO.

Smith, J. D. (2010, October). Animal Metacognition. Colloquium presented to the Center for Cognitive Science, University at Buffalo, The State University of New York.

Couchman, J. J., Coutinho, M. V. C., Beran, M. J., & Smith, J. D. (2010, April). Beyond stimulus cues and reinforcement signals: A new approach to animal cognition. Presentation at the 102nd annual meeting of the *Southern Society for Philosophy and Psychology*. Atlanta, GA. New Orleans, LA. This paper's first author was

awarded the SSPP's Griffith Award for the meeting's best psychology presentation by a young investigator.

- Beran, M. J., & Smith, J. D. (2010, March). Knowing what to ask for: Monkeys seek information before matching-to-sample. Paper presented at the 17th Annual International Conference on Comparative Cognition, Melbourne Beach, FL.
- Boomer, J.B., Paul, E.J., Couchman, J.J., Coutinho, M.V.C., Beran, M.J., Ashby, F.G., Smith, J.D. (2009, November). Discerning the cognitive level of the uncertain response in humans and rhesus macaques (*Macaca mulatta*). Presented at the 3rd Annual Comparative Cognition and Learning Fall Conference, sponsored by the *Comparative Cognition Society*, Boston, MA.
- Coutinho, M. V.C., Redford, J. S., Couchman, J. J., & Smith, J. D. (2009, November) Uncertainty? Attention!. Presented at the 50th Annual Meeting of the Psychonomic Society, Boston, MA
- Couchman, J. J., Beran, M. J., & Smith, J. D. (2009, November). Responding to future uncertainty. Presented at the 2nd Annual Comparative Cognition and Learning Fall Conference, sponsored by the *Comparative Cognition Society*, Boston, MA.
- Couchman, J. J., Coutinho, M. V. C, & Smith, J. D. (2009, April). Implicit and explicit categorization strategies in humans and rhesus macaques. Paper presented at the 101st annual meeting of the *Southern Society for Philosophy and Psychology*. Savannah, GA.
- Paul, E., Ashby, F. G., & Smith, J. D. (2009, March). Neural correlates of uncertainty monitoring in humans. Paper presented at the 15th annual meeting of the *Cognitive Neuroscience Society*. San Francisco, CA.
- Smith, J. D. (2009, February). Uncertainty monitoring and metacognition by humans and nonhuman animals. *Psi Chi / SEPA Distinguished Lecture* presented at the annual meeting of the *Southeastern Psychological Association*. New Orleans, LA.
- Boomer, J., Couchman, J. J., Coutinho, M. V. C., Smith, J. D., & Beran, M. J. (2008, November). Effects of feedback on maintaining categorization strategy in humans (*Homo sapiens*) and rhesus macaques (*Macaca mulatta*). Paper presented at the 49th annual meeting of the *Psychonomic Society* and at the fall conference of the *Comparative Cognition Society*. Chicago, IL.
- Coutinho, M. V. C., Boomer, J., Couchman, J. J., Beran, M. J. & Smith, J. D. (2008, March). Experiments in the sustainability of categorization rules without direct feedback for humans and rhesus macaques (*Macaca mulatta*). Paper presented at the 100th annual meeting of the *Southern Society for Philosophy and Psychology*. New Orleans, LA.
- Beran, M. J., Smith, J. D., Couchman, J. J., & Coutinho, M. V. C. (2007, November). Dissociation of "uncertainty" responses and "middle" responses in capuchin

monkeys. Paper presented at the 48th Annual Meeting of the *Psychonomic Society*. Long Beach, CA.

Couchman, J. J., Coutinho, M. V. C., & Smith, J. D. (2007, November). Comparing implicit and explicit categorization strategies in humans and rhesus macaques (*Macaca mulatta*). Paper presented at the 48th Annual Meeting of the *Psychonomic Society*. Long Beach, CA.

Coutinho, M. V. C., Couchman, J. J., Smith, J. D., Redford, J. S., & Washburn, D. A. (2007, November). Refining the visual cortical priming hypothesis in category learning by humans and rhesus monkeys (*Macaca mulatta*). Paper presented at the 48th annual meeting of the *Psychonomic Society*. Long Beach, CA.

Coutinho, M. V. C., Couchman, J. J., Redford, J. S., & Smith, J. D. (2007, April). Testing the visual cortex priming hypothesis in category learning in humans and rhesus monkeys (*Macaca mulatta*). Paper presented at the 99th annual meeting of the *Southern Society for Philosophy and Psychology*. Atlanta, GA.

Haas, S. M., Redford, J. S., & Smith, J. D. (2007, April). Prototype abstraction in monkeys (*Macaca mulatta*). Paper presented at the 99th annual meeting of the *Southern Society for Philosophy and Psychology*. Atlanta, GA.

Smith, J. D., & Cook, R. G. (2006, April). Stages of abstraction and exemplar memorization in pigeon category learning. Paper presented at the 98th annual meeting of the *Southern Society for Philosophy and Psychology*. Charleston, SC.

Beran, M. J., Smith, J. D., Redford, J. S., & Washburn, D. A. (2005, March). Is 6 more than 5? Rhesus monkeys (*Macaca mulatta*) monitor uncertainty during numerosity judgments. Paper presented at the 97th annual meeting of the *Southern Society for Philosophy and Psychology*. Durham, NC.

Smith, J. D., Beran, M. J., Redford, J. S., & Washburn, D. A. (2005, March). Dissociating uncertainty states and reinforcement signals in the comparative study of metacognition. Paper presented at the 97th annual meeting of the *Southern Society for Philosophy and Psychology*. Durham, NC.

Redford, J. S., Bogdan, M., & Smith, J. D. (2005, March). Uncertainty monitoring in a multidimensional categorization task. Paper presented at the 97th annual meeting of the *Southern Society for Philosophy and Psychology*. Durham, NC.

Smith, J. D. (2005, January). Visual search, categorization, and airport security screening: Why screeners miss weapons. Colloquium presented at *Swarthmore College*. Swarthmore, PA.

Smith, J. D. (2004, November). When parameters collide: A warning about the use of choice rules in cognitive models. Paper presented at the 45th annual meeting of the *Psychonomic Society*. Minneapolis, MN.

- Smith, J. D. (2004, April). Getting the kinks out of formal models of categorization. Paper presented at the 96th annual meeting of the *Southern Society for Philosophy and Psychology*. New Orleans, LA.
- Washburn, D. A., Baker, L. A., Tagliatela, J. P., & Smith, J. D. (2003, October). The demands on attention in security screening. Paper presented at the annual meeting of the *Human Factors and Ergonomics Society*. Denver, CO.
- Smith, J. D. (2003, September). Category learning in rhesus monkeys: A study of the Shepard, Hovland, and Jenkins (1961) tasks. Paper presented to the *James S. McDonnell Foundation Consortium on the Cognitive Neuroscience of Category Learning*. New York, NY.
- Smith, J. D., & Redford, J. S. (2003, April). Why is the X-ray screener's task difficult?: evaluating two hypotheses. Paper presented at the 95th annual meeting of the *Southern Society for Philosophy and Psychology*. Atlanta, GA.
- Washburn, D. A., Baker, L. A., Tagliatela, J., & Smith, J. D. (2002, November). Threat / no-threat decisions in an x-ray search task. Paper presented at the annual meeting of the *Society for Judgment and Decision Making*. Kansas City, MO.
- Smith, J. D., Redford, J. S., & Washburn, D. A. (2002, November). The categorization problem that airport x-ray screeners face. Paper presented at the 43rd annual meeting of the *Psychonomic Society*. Kansas City, MO.
- Smith, J. D. (2002, November). Prototypes and exemplars in categorization. Colloquium presented at *Georgia State University*. Atlanta, GA.
- Smith, J. D. (2002, October). Species of parsimony in comparative studies of cognition. Paper presented at the conference *Emergents and Rational Behaviorism: A Festschrift in Honor of Duane M. Rumbaugh*. Georgia State University, Atlanta, GA.
- Smith, J. D. (2002, September). Exemplar theory's predicted typicality gradient can be tested and disconfirmed. Paper presented to the *James S. McDonnell Foundation Consortium on the Cognitive Neuroscience of Category Learning*. New York, NY.
- Smith, J. D. (2002, April). Studies of uncertainty monitoring and metacognition in animals and humans. Paper presented at the conference *The Missing Link in Cognition: Origins of Self-Knowing Consciousness*. Columbia University, New York, NY.
- Smith, J. D. (2002, March). Why cognitive psychologists should know comparative psychology; why comparative psychologists should know cognitive psychology. Paper presented at the 94th annual meeting of the *Southern Society for Philosophy and Psychology*. Nashville, TN.
- Smith, J. D., Washburn, D. A., & Shields, W. E. (2002, March). Controlled uncertainty responding by humans facing simultaneous conflicting psychophysical

discriminations. Paper presented at the 94th annual meeting of the *Southern Society for Philosophy and Psychology*. Nashville, TN.

Smith, J. D., Minda, J. P., & Washburn, D. A. (2001, November). Shepard, Hovland, Jenkins, and monkeys. Paper presented at the 42nd annual meeting of the *Psychonomic Society*. Orlando, FL.

Washburn, D. A., Smith, J. D., Baker, L. A., & Raby, P. R. (2001, October). Responding to uncertainty: Individual differences and training effects. Paper presented at the meeting of the *Human Factors and Ergonomics Society*. Minneapolis, MN.

Smith, J. D., Washburn, D. A., & Shields, W. E. (2001, August). Studies of uncertainty monitoring and metacognition in animals and humans. Paper presented at the meeting of the *American Psychological Association*. San Francisco, CA.

Smith, J. D. (2001, April). Toward a comparative psychology of uncertainty monitoring and metacognition. Paper presented at the 93rd annual meeting of the *Southern Society for Philosophy and Psychology*. New Orleans, LA.

Smith, J. D., Minda, J. P., & Washburn, D. A. (2001, April). A possible discontinuity in categorization between humans and non-human primates: The case of the Shepard, Hovland, and Jenkins tasks. Paper presented at the 93rd annual meeting of the *Southern Society for Philosophy and Psychology*. New Orleans, LA.

Smith, J. D. (2001, February). Journey to the center of the category. Colloquium presented to the *Center for Cognitive Science* at the University at Buffalo, State University of New York. Buffalo, NY.

Smith, J. D., & Minda, J. P. (2000, November). Journey to the center of the category: The categorization-recognition dissociation in amnesia. Paper presented at the 41st annual meeting of the *Psychonomic Society*. New Orleans, LA.

Smith, J. D., & Minda, J. P. (2000, April). The dissociation in amnesia between categorization and recognition. Paper presented at the 92nd annual meeting of the *Southern Society for Philosophy and Psychology*. Atlanta, GA.

Minda, J. P., Smith, J. D., & Church, B. A. (1999, November). Have I seen that cat before? Dissociations between categorization and recognition memory. Paper presented at the 40th annual meeting of the *Psychonomic Society*. Los Angeles, CA.

Minda, J. P., & Smith, J. D. (1999, April). Prototypes in category learning. Paper presented at the 91st annual meeting of the *Southern Society for Philosophy and Psychology*. Louisville, KY.

Minda, J. P., & Smith, J. D. (1998, November). Thirty categorization results in search of a model. Paper presented at the 39th annual meeting of the *Psychonomic Society*. Dallas, TX.

- Shields, W. E., Smith, J. D., & Washburn, D. A. (1998, April). Nonverbal judgments of knowing by humans and rhesus monkeys. Paper presented at the 90th annual meeting of the *Southern Society for Philosophy and Psychology*. New Orleans, LA.
- Washburn, D. A., Smith, J. D., & Fillion, C. M. (1998, April). What can we learn from "failures to Learn"? Paper presented at the 90th annual meeting of the *Southern Society for Philosophy and Psychology*. New Orleans, LA.
- Smith, J. D., & Minda, J. P. (1998, April). Prototypes, sage, exemplars and thyme. Paper presented at the 90th annual meeting of the *Southern Society for Philosophy and Psychology*. New Orleans, LA.
- Smith, J. D. (1998, February). Thirty categorization results in search of a model. Colloquium presented to the Department of Linguistics, University at Buffalo, State University of New York. Buffalo, NY.
- Minda, J. P., & Smith, J. D. (1997, November). Prototypes in category learning. Paper presented at the 38th annual meeting of the *Psychonomic Society*. Philadelphia, PA.
- Shields, W. E., Smith, J. D., & Washburn, D. A. (1996, November). Memory monitoring in rhesus monkeys (*Macaca mulatta*). Paper presented at the 37th annual meeting of the *Psychonomic Society*. Chicago, IL.
- Tucker, M., Smith, J. D., & Jusczyk, P. (1996, May). Infant preference for harmonic closure in musical sequences. Paper presented at the 131st meeting of the *Acoustical Society of America*. Indianapolis, IN.
- Smith, J. D. (April, 1996). Animal cognition and awareness. Symposium organized for the *Cognitive Science Center*, University at Buffalo, State University of New York. Buffalo, NY.
- Smith, J. D. (April, 1996). Cognitive self-regulation by animals. Paper presented to the *Cognitive Science Center*, University at Buffalo, State University of New York. Buffalo, NY.
- Smith, J. D., Shields, W. E., Hall, W., & Nelson, T. O. (1996, April). Metacognition: Et tu, brute? Paper presented at the 88th annual meeting of the *Southern Society for Philosophy and Psychology*. Nashville, TN.
- Smith, J. D. (March, 1996). Toward a comparative psychology of metacognition. Colloquium presented at the *University of Maryland*. Silver Springs, MD.
- Shields, W. E., Washburn, D. A., & Smith, J. D. (1995, November). Uncertain responses by rhesus monkeys (*Macaca mulatta*) in a psychophysical same-different task. Paper presented at the 36th annual meeting of the *Psychonomic Society*. Los Angeles, CA.

- Shields, W. E., Washburn, D. A., Smith, J. D., & Allendoerfer, K. R. (1995, July). Rhesus monkeys make adaptive uncertain responses in a psychophysical same-different task. Paper presented at the seventh annual meeting of the *American Psychological Society*. New York, NY.
- Smith, J. D., Kemler Nelson, D. G., Grohskopf, L. A., & Appleton, T. (1994, July). Familiar tunes and music cognition in novice listeners. Paper presented at the 6th annual meeting of the *American Psychological Society*. Washington, DC.
- Smith, J. D. (1993, December). The mysterious tonal deafness of musical novices: implications for a science of music cognition. Colloquium presentation to the Department of Music and the *Cognitive Science Center*, the University at Buffalo, State University of New York. Buffalo, NY.
- Tracy, J. I., & Smith, J. D. (1992, August). Learning complex categories two ways at once: challenging the analytic option. Paper presented at the meeting of the *American Psychological Association*. Washington, DC.
- Smith, J. D. (1992, April). The art of knowing when you don't know: uncertainty monitoring in humans, monkeys, dolphins, ..., and artificial neural nets? Colloquium presentation to the *Cognitive Science Center*, the University at Buffalo, State University of New York. Buffalo, NY.
- Smith, J. D., & Schull, J. (1991, December). Uncertainty monitoring in the bottlenosed dolphin (*Tursiops truncatus*). Paper presented at the *Ninth Biennial Conference on the Biology of Marine Mammals*. Chicago, IL.
- Schull, J., & Smith, J. D. (1991, September). Uncertainty monitoring in primates and cetaceans. Colloquium presented to the *Animal Behavior Group* at Temple University. Philadelphia, PA.
- Tracy, J. I., & Smith, J. D. (1991, August). Learning complex categories two ways at once: Speeded categorization. Paper presented at the meeting of the *American Psychological Association*. San Francisco, CA.
- Reisberg, D., Smith, J. D., & Wilson, M. (1990, November). Subvocalization and auditory imagery: Interactions between the 'inner voice' and 'inner ear.' Paper presented at the meeting of the *Psychonomic Society*. New Orleans, LA.

Recent Professional Memberships and Activities

President, *Southern Society for Philosophy and Psychology*

Associate Editor, *Psychonomic Bulletin and Review*

NIH *ad hoc* reviewer, American Rehabilitation and Recovery Act challenge grants

Cognition and Perception Review Panel, National Institutes of Health

James S. McDonnell Foundation Consortium on the Cognitive Neuroscience of
Category Learning

Aviation Security Scientific Information Support Team (ASSIST)

The Psychonomic Society

The Southern Society for Philosophy and Psychology
(Psychology Program Chair, 93rd annual meeting, New Orleans, LA)

American Psychological Society

National Science Foundation/European Science Foundation consortium:
Consciousness in a Natural and Cultural Context.

Recent Reviews

Animal Cognition

Journal of Experimental Psychology: General

Journal of Experimental Psychology: Learning, Memory, and Cognition

Journal of Experimental Psychology: Animal Behavior Processes

Psychonomic Bulletin and Review

Memory and Cognition

Perception and Psychophysics

Quarterly Journal of Experimental Psychology

International Journal of Comparative Psychology

Canadian Journal of Psychology

National Institutes of Health

National Science Foundation

Psychological Bulletin

Science

Comparative Cognition and Behavior Reviews

Trends in Cognitive Science

Journal of Comparative Psychology

Mind and Language

Cognition

Recent Public / Popular Research Descriptions

Strongest evidence yet of 2 distinct human cognitive systems. Science Codex.

Chimps: Ability to ‘think about thinking’ not limited to humans. Science Daily.

Testing for metacognition in people, pigeons, and macaques. Podcast on the website of Science.com.

Monkeys ‘display self-doubt’ like humans. Article by Victoria Gill for BBC Earth News, also published in The Huffington Post and other outlets worldwide.

Animals think about thinking, research suggests. Article by Jeanna Bryner for LiveScience, also published in US News and World Report, MSNBC.com, and other outlets.

Beastly doubts: Exploring animal uncertainty. Cover article by Bruce Bower in the magazine Science News.

Monkeys, dolphin say I don’t know. Article by Guy Gugliotta in the Washington Post.

Bold studies consider whether animals know what they don’t know. Article by Sharon Begley in the Wall Street Journal.

Dazed and confused: Study finds that some animals suffer from confusion, too. Article by Lee Dye for ABCNEWS.com.

Animals can think about thought. Article by Tim Radford for the Manchester Guardian.

Screening surveyed: Psychological research on whether people can apply their knowledge of specific objects to broader categories during screening tasks may have implications for aviation security. Article by Lea Winerman for the Monitor of the American Psychological Association.

Why airport screeners sometimes don’t spot guns, knives, scissors. Article by Sharon Begley for the Wall Street Journal.

Intelligence of monkeys and dolphins. Radio essay by Scott Simon for National Public Radio’s Weekend Morning Edition.

Known unknowns. Cover article by Helen Phillips for the magazine New Scientist.

Recent University Service

University Committee on General Education Requirements

(subcommittee: Quantitative Reasoning)
Department of Psychology Tenure and Promotions Committee
Center for Cognitive Science
Graduate Program in Evolution, Ecology, and Behavior
Department of Psychology Undergraduate Studies Committee
Department of Psychology Grievance Committee
Department of Psychology Graduate Studies Committee
Department of Psychology Research Participant Group Committee

Selected Student Biographies

Mariana V. C. Coutinho is currently completing a post-doctoral fellowship at the University of Wisconsin Milwaukee. Her CV includes publications in *Journal of Experimental Psychology: General*, *Journal of Experimental Psychology: Animal Behavior Processes* (4), *Psychonomic Bulletin & Review* (2), *British Journal of Developmental Psychology*, *Brain & Cognition*, *Behavioral & Brain Sciences*, and *Journal of Comparative Psychology*.

Justin Couchman received the *University at Buffalo Psychology Dissertation Award* (2010), the *Robert M. Griffith Memorial Award* from the Southern Society of Philosophy and Psychology (2010), the *University at Buffalo Graduate Student Excellence in Teaching Award* (2009), and the *Robert W. Rice Memorial Award for Early Excellence in Research* (2008). He is an assistant professor at Albright College, with publications in the *British Journal of Developmental Psychology*, *Consciousness and Cognition*, *Biology Letters*, *Journal of Experimental Psychology*, *Animal Behavior Processes*, *Journal of Comparative Psychology*, *Brain and Cognition*, *Comparative Cognition and Behavior Reviews*, and *Psychonomic Bulletin and Review*.

Joshua Redford recently completed a post-doctoral fellowship at Boise State University's *Center for School Improvement and Policy Studies*. His CV includes publications in *Journal of Experimental Psychology: General*, *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *Psychophysiology*, *Journal of Experimental Psychology: Animal Behavior Processes*.

Paul Minda received the *Robert M. Griffith Memorial Award* from the *Southern Society of Philosophy and Psychology* for his cognitive science research. He also was given a *Beckman Postdoctoral Fellowship* for the years 2000-2003. The Beckman Fellowship is one of the most prestigious post-doctoral fellowships nationally in either the social or natural sciences. It is competitive across many disciplines and only three fellowships are typically awarded each year. Paul was granted tenure in the department of psychology at the University of Western Ontario, with publications in *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *Memory and Cognition*, and *Journal of Experimental Psychology: General*.

Wendy Shields was awarded UB's *Robert W. Rice Memorial Award* for early excellence in research during her graduate study at UB. She also received the *Cognitive Science Recruitment Fellowship*. Wendy was granted tenure in the department of psychology at the University of Montana, with publications in *Behavioral and Brain Sciences*, *Journal of Experimental Psychology: Animal Behavior Processes*, *Journal of General Psychology*, *Journal of Experimental Psychology: General*, and *Cognition*.

Babette Moeller is a Senior Researcher/Principal Investigator at the *Education Development Center* and the *Center for Children & Technology*. Her work focuses on the development of technology-enhanced programs to ensure that children from diverse backgrounds benefit from educational-reform efforts. She works on several federally funded technology-integration projects. She currently serves as president of *Science Education for Students with Disabilities (SESD)*. She has also developed standards for the *National Council of Teachers of Mathematics*. She has taught courses in technology integration and media research at Fordham University's Graduate School of Education and the New School for Social Research. She regularly presents papers at professional conferences and writes articles for educators, social scientists, and policymakers.

Joseph Tracy is a Clinical Associate Professor in the Department of Neurology and Radiology at the Jefferson Medical College of Thomas Jefferson University and the Director of its Neuropsychology Division. He supervises Ph. D., M. A., and M. D. students in his research that emphasizes fMRI to study human learning and attention. His CV includes publications in *Brain*, *Brain & Cognition*, *Neurology*, *Schizophrenia Research*, *Biological Psychology*, and *Neuropsychology*. He is also a licensed clinical psychologist in New Jersey and Pennsylvania conducting comprehensive neuropsychological evaluations (intelligence testing, memory, attention deficit, learning, language skills, etc.) for a wide range of neurologic and psychiatric disorders.

Robert Remien is a research scientist at the *HIV Center for Clinical and Behavioral Studies*. He is also Associate Professor of Clinical Psychology at Columbia University. He has served as the chairperson of the *New York State Psychological Association's Task Force on AIDS*, a member of New York City's *Department of Health Prevention Planning Group*, and senior faculty in the *American Psychological Association's HIV Training Program* for psychologists.

Diane Urban is a practicing clinical psychologist in Westchester County. She specializes in training parents in skills for fostering growth and development in learning-disabled children. She leads teacher-training workshops on related topics. Diane is also an adjunct assistant professor at Westchester Community College and has been selected three times to appear in *Who's Who among America's Teachers*.

Robert Melara is now a tenured professor at City College, City University of New York, and the chair of the department of psychology. His CV includes articles in *Psychological Review*, *Journal of Experimental Psychology: General*, *Journal of Experimental Psychology: Learning, Memory, and Cognition*, and *Journal of Experimental Psychology: Human Perception and Performance*.

Kenneth Allendoerfer is an engineering research psychologist (GS-14, or upper staff level) at the *Federal Aviation Administration* working within the Air Traffic Organization on the National Airspace System. He works to develop effective user interfaces for air-traffic control. He received the *Distinguished Employee of the Year Award* from the William J. Hughes Technical Center for his contributions to projects and programs at the Center.

Teaching Interests and Experience

Cognitive Psychology

Animal Cognition

Categorization

Music Cognition

Human Intelligence

Psychological Statistics

Research Methods

Independent Student Research