

VITA

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Academic Training

B.S. Psychology, June 1963 - Union College, Schenectady, New York
B.E.E. Electrical Engineering, June 1963 - Union College, Schenectady, New York
Ph.D. Psychology, Aug 1969 - University of California, Berkeley, California

Positions Held

Sept 1969 - Dec 1975: Assistant Professor, University of Pittsburgh
Jan 1976 - June 1977: Assistant Professor, University of Kentucky
July 1977 - July 1982: Associate Professor, University of Kentucky
July 1982 - Present: Professor, University of Kentucky
Sept 1982 - May 1983: Visiting Professor, Purdue University
Aug 2006 - Dec 2006: Visiting Professor, Université de Lille III, France
June 2007: Visiting Professor, Universidad de Sevilla, Spain

Extramural Awards and Grants

NIMH Grant MH 19757, Concept learning in the pigeon, 1972-1973, \$5,834
NIMH Grant MH 24092, Imitative behavior in animals, 1974-1975, \$5,633
NIMH Grant MH 35378, Conditional discrimination learning, 1980-1982, \$7,025
NSF Grant BNS 8418275, Determinants of animal memory strategies, 1985-1990, \$73,998
NSF Grant R11 8902792, Sponsor, Visiting Prof. for Women, to Dr. Janice Steirn, 1989-1990, \$60,000
NSF Grant BNS 9019080, Stimulus equivalences and stimulus class formation, 1990-1993, \$114,510
NSF Grant BNS 9019080, Research Opportunities Award, 1990-1991, \$10,000,
Research Experiences for Undergraduates, 1990-1991, \$3,997; 1991-1992, \$3,200
NIMH Grant R01 MH45979, Anticipation effects in animal memory, 1991-1994, \$324,001
NSF Grant IBN 9414589, Transfer of value in simultaneous discriminations, 1995-1998, \$150,000
NIMH Grant R01 MH55118, Coding processes in animal memory, 1996-2000, \$244,670
NIMH Grant F31 MH11754, Sponsor, NRSA to Daren Kaiser, 1997-1998, \$13,167
NIMH Minority Supplement to Grant R01 MH55118, 1997-1999, \$41,048
NIMH Grant R01 MH59194, Single-code/default strategy use by animals, 1998-2002, \$282,349
NIMH Grant F31 MH12046, Sponsor, NRSA to Brigitte Dorrance, 1998-2000, \$39,084
NIMH Grant R01 MH63726, Effect of prior effort on reward value, 2002-2007, \$832,600
NIMH Grant F31 MH72065, Sponsor, NRSA to Kelly DiGian, 2004-2006, \$56,338
NIMH Grant F31 DA018476, Co-Sponsor, NRSA to Emily Klein, 2004-2006, \$47,044
Fulbright-Hayes Fellowship, Université de Lille III, France, 2006, \$24,393
NIMH Grant F31 MH077450, sponsor, NRSA to Rebecca Singer, 2006-2008, \$65,180
NICHD Grant RO1 HD060996, Effect of prior event on reward value, 2009- 2011, \$428,622

Honors

President Midwestern Psychological Association, 2002-2003

President Comparative Cognition Society, 2004-2006

President Division 3 (Experimental Psychology) American Psychological Association, 2005-2006

President Division 6 (Behavioral Neuroscience and Comparative Psychology)
American Psychological Association, 2005-2006

Chair of the Governing Board, Psychonomic Society 2006-2007

Board of Directors, Eastern Psychological Association, 2006-2009

Fulbright-Hayes Fellowship, Université de Lille III, France, 2006

Professional and Scholarly Publishing Division of the Association of American Publishers: Outstanding
Professional, Reference, or Scholarly Work of 2006 in Psychology & Cognitive Science

Endowed (Di Silvestro) Professorship Arts and Sciences, 2008

Fellow Society of Experimental Psychologists, 2009

Professional Affiliations and Service

American Psychological Association, Fellow

Committee on Divisions/APA Relations, 2004-2006

Coalition Academic Scientific and Applied Psychology, Member of Exec Com 2007-2010

Chair: F. J. McGuigan Young Investigator Prize Committee 2004, 2006, 2008

Chair: F. J. McGuigan Dissertation Award Review Committee 2009

Council of Representatives (Division 3) 2007-2009

Division 1 (General Psychology), Fellow

Division 3 (Experimental Psychology), Fellow

President, 2005-2006

Secretary-Treasurer, 1991-1994

Member of the Executive Committee, 1999-2002, 2003-2006

Division 6 (Behavioral Neuroscience and Comparative Psychology), Fellow

President, 2005-2006

Chair of the Fellows Committee, 1995-1997, 2003-2004

Member of the Executive Committee, 1998-2001

Division 25 (Experimental Analysis of Behavior), Fellow

Member of the Executive Committee, 2006-2009

Division 52 (International Psychology)

Psychonomic Society

Member of the Governing Board 2002-2008

Chair of the Governing Board 2006-2007

American Psychological Society, Fellow

Comparative Cognition Society

President 2004-2006

Midwestern Psychological Association, Fellow

President, 2002-2003

Secretary-Treasurer, 1998-2001

Eastern Psychological Association

Board of Directors, 2006-2009

Journal Editorships:

Associate Editor:

Psychonomic Bulletin & Review, 1998-2002
Learning & Behavior, 2002-2006
Journal of the Experimental Analysis of Behavior (Special Issue) 2001-2002
Behavioural Processes (Special Issue) 2005-2006
International Journal of Psychology and Psychological Therapy (Special Issue) 2005-2006

Consulting Editor:

Journal of Experimental Psychology: Animal Behavior Processes, 1986-1997
Psychonomic Bulletin & Review, 1993-1998; 2002-2010
Journal of the Experimental Analysis of Behavior, 1993-1998, 2001-2005
Animal Learning & Behavior, 1998-2002
The Journal of General Psychology, 1998-present
International Journal of Psychology and Psychological Therapy, 2001-present
Comparative Cognition and Behavior Review, 2004-present
Learning & Behavior, 2008-present
The Psychological Record, 2009-present
PscCRITIQUES, 2009-present

Grant Review Panel: NIMH Basic Behavioral Processes Grant Study Section, 1988-1989
NIH Cognition, Perception and Language Fellowship Panel, 2006
NSF Integrative Organismal Biology: Animal Behavior Study Section, 2004, 2006

Administrative Experience

Acting Chair, Department of Psychology, Univ. of Ky, 1/82-7/82
Chair, Arts and Sciences Tenure & Promotion Com. for the Soc. Sciences, Univ. of Ky, 1980-81; 1985-86
Director of Graduate Studies, Department of Psychology, Univ. of Ky, 7/92-6/97
Coordinator, Behavioral and Neural Studies Area, Univ. of Ky, 7/83-6/89
Chair, Faculty Summer Research Fellowship Committee, Univ. of Ky, 7/80-6/81
Chair, Review Committee, Univ. of Ky, Department of History, 11/84
Chair, Review Committee, Indiana University Purdue University at Indianapolis, Dept. of Psychology, 4/97
Chair, University Social Sciences Area Advisory Com. for Tenure & Promotion, Univ. of Ky 7/03-7/04
Chair, University Senate Research Committee 9/08 – 8/11

Other University Service

Member of the University Senate 9/81-6/84, 9/98-6/01, 9/03-6/06, 9/08-6/11
Member of the Graduate Council 9/01-6/04
Member of the Undergraduate Council 9/84-6/88
University Social Sciences Area Advisory Com. for Tenure & Promotion, 9/95-9/97
College Natural Sciences Area Advisory Com. for Tenure & Promotion, 9/90-9/91

Books:

Zentall, T. R. & Galef, B. G. Jr. (Eds.). (1988). *Social learning: Psychological and biological perspectives*. Hillsdale, NJ: Erlbaum.

Zentall, T. R. (1993). (Ed.). *Animal cognition: A tribute to Donald A. Riley*. Hillsdale, NJ: Erlbaum.

Zentall, T. R., & Smeets, P. M. (Eds.). (1996). *Stimulus class formation in humans and animals*. Amsterdam: North Holland.

Wasserman, E. A., & Zentall, T. R. (Eds.) (2006). *Comparative Cognition: Experimental Explorations of Animal Intelligence*. New York: Oxford University Press.

Research Publications and Book Chapters:

1966

Lee, W., & Zentall, T. R. (1966). Factorial effects in the categorization of externally distributed stimulus samples. *Perception and Psychophysics, 1*, 120-124.

1969

Singer, B., Zentall, T. R., & Riley, D. A. (1969). Stimulus generalization and the easy-to-hard effect. *Journal of Comparative and Physiological Psychology, 69*, 528-535.

1970

Zentall, T. R. (1970). Effects of context change on forgetting in rats. *Journal of Experimental Psychology, 86*, 440-448.

1971

Zentall, T. R., Collins, N., & Hearst, E. (1971). Generalization gradients around a formerly positive S-. *Psychonomic Science, 22*, 257-259.

1972

Zentall, T. R. (1972). Attention in the pigeon: Novelty effects and testing with compounds. *Psychonomic Science, 27*, 31-32.

Zentall, T. R., & Levine, J. M. (1972). Observational learning and social facilitation in the rat. *Science, 178*, 1220-1221.

1973

Zentall, T. R. (1973). Memory in the pigeon: Retroactive inhibition in a delayed matching task. *Bulletin of the Psychonomic Society, 1*, 126-128.

1974

Zentall, T. R., & Hogan, D. E. (1974). Abstract concept learning in the pigeon. *Journal of Experimental Psychology*, 102, 393-398.

Zentall, T. R., Hogan, D. E., & Holder, J. (1974). Comparison of two oddity tasks with pigeons. *Learning and Motivation*, 5, 106-117.

Levine, J. M., & Zentall, T. R. (1974). Effect of conspecific's presence on deprived rats' performance: Social facilitation vs. distraction/imitation. *Animal Learning & Behavior*, 2, 119-122.

Zentall, T. R., & Hogan, D. E. (1974). Memory in the pigeon: Proactive inhibition in a delayed matching task. *Bulletin of the Psychonomic Society*, 4, 109-112.

1975

Zentall, T. R., & Hogan, D. E. (1975). Key pecking in pigeons produced by pairing key light with inaccessible grain. *Journal of the Experimental Analysis of Behavior*, 23, 199-206.

Zentall, T. R., & Hogan, D. E. (1975). Concept learning in the pigeon: Transfer of matching and nonmatching to new stimuli. *American Journal of Psychology*, 88, 233-244.

1976

Zentall, T. R., & Hogan, D. E. (1976). Pigeons can learn identity, difference, or both. *Science*, 191, 408-409.

Zentall, T. R., Hogan, D. E., Compomizzi, K., & Compomizzi, C. (1976). Responding to a positive stimulus by "satiated" pigeons. *Learning and Motivation*, 7, 141-159.

Zentall, S. S., & Zentall, T. R. (1976). Activity and task performance of hyperactive children as a function of manipulated environmental stimulation. *Journal of Consulting and Clinical Psychology*, 44, 693-697.

Zentall, S. S., & Zentall, T. R. (1976). Amphetamine's effects may be predictable. *Journal of Learning Disabilities*, 9, 188-189.

Zentall, T. R., & Hogan, D. E. (1976). Imitation and social facilitation in the pigeon. *Animal Learning & Behavior*, 4, 427-430.

1977

Hogan, D. E., & Zentall, T. R. (1977). Backward associative learning in the pigeon. *American Journal of Psychology*, 90, 3-15.

Zentall, T. R., & Hogan, D. E. (1977). Short-term proactive inhibition in the pigeon. *Learning and Motivation*, 8, 367-386.

1978

Zentall, T. R., Hogan, D. E., Howard, M. M., & Moore, B. S. (1978). Delayed matching in the pigeon: Effect on performance of sample-specific observing responses and differential delay behavior. *Learning and Motivation, 9*, 202-218.

Zentall, T. R., & Hogan, D. E. (1978). Same/different concept learning in the pigeon: The effect of negative instances and prior adaptation to the transfer stimuli. *Journal of the Experimental Analysis of Behavior, 30*, 177-186.

Zentall, S. S., Zentall, T. R., & Booth, M. (1978). Within-task stimulation: Effects on activity and spelling performance of hyperactive and normal children. *Journal of Educational Research, 71*, 222-230.

Zentall, S. S., Zentall, T. R., & Barack, R. S. (1978). Distraction as a function of within-task stimulation for hyperactive and normal children. *Journal of Learning Disabilities, 11*, 540-548.

1979

Nallan, G. B., Pace, G. M., McCoy, D. F., & Zentall, T. R. (1979). Temporal parameters of the feature positive effect. *American Journal of Psychology, 92*, 703-710.

1980

Zentall, T. R., Hogan, D. E., Edwards, C. A., & Hearst, E. (1980). Oddity learning in the pigeon as a function of the number of incorrect alternatives. *Journal of Experimental Psychology: Animal Behavior Processes, 6*, 278-299.

Edwards, C. A., Hogan, D. E., & Zentall, T. R. (1980). Imitation of an appetitive discriminatory task by pigeons. *Bird Behaviour, 2*, 87-91.

Martorano, S. H., & Zentall, T. R. (1980). Children's knowledge of the separation of variables concept. *Journal of Experimental Child Psychology, 30*, 513-526.

Bunch, G. B., & Zentall, T. R. (1980). Imitation of a passive avoidance response in the rat. *Bulletin of the Psychonomic Society, 15*, 73-75.

1981

Zentall, T. R., Hogan, D. E., & Edwards, C. A. (1981). Oddity learning in the pigeon: Effect of negative instances, correction, and number of incorrect alternatives. *Animal Learning & Behavior, 8*, 621-629.

Henning, J. M., & Zentall, T. R. (1981). Imitation, social facilitation, and the effects of ACTH 4-10 on rats' barpress behavior. *American Journal of Psychology, 94*, 125-134.

Zentall, T. R., Edwards, C. A., Moore, B. S., & Hogan, D. E. (1981). Identity: The basis for both matching and oddity learning in pigeons. *Journal of Experimental Psychology: Animal Behavior Processes, 7*, 70-86.

Hogan, D. E., Edwards, C. A., & Zentall, T. R. (1981). The role of identity in learning and memory of matching-to-sample by pigeons. *Bird Behaviour*, 3, 27-36.

Hogan, D. E., Edwards, C. A., & Zentall, T. R. (1981). Delayed matching in the pigeon: Interference produced by a prior delayed matching trial. *Animal Learning & Behavior*, 9, 395-400.

1982

Edwards, C. A., Jagielo, J. A., Zentall, T. R., & Hogan, D. E. (1982). Acquired equivalence and distinctiveness in matching-to-sample by pigeons: Mediation by reinforcer-specific expectancies. *Journal of Experimental Psychology: Animal Behavior Processes*, 8, 244-259.

Zentall, T. R. (1982). The heuristic value of representation. *The Behavioral and Brain Sciences*, 5, 393-394.

1983

Hogan, D. E., Pace, G. M., & Zentall, T. R. (1983). Control of pigeons' matching-to-sample performance by differential sample response requirements. *American Journal of Psychology*, 96, 37-49.

Edwards, C. A., Jagielo, J. A., & Zentall, T. R. (1983). Same/different symbol use by pigeons. *Animal Learning & Behavior*, 11, 349-355.

Zentall, S. S., & Zentall, T. R. (1983). Optimal stimulation: A model of disordered activity and performance in normal and deviant children. *Psychological Bulletin*, 94, 446-471.

Nallan, G. B., Pace, G. M., McCoy, D. F., & Zentall, T. R. (1983). The role of elicited responding in the feature-positive effect. *American Journal of Psychology*, 93, 377-390.

Zentall, T. R., Edwards, C. A., & Hogan, D. E. (1983). Pigeons' use of identity. In M. L. Commons, R. J. Herrnstein, & A. Wagner (Eds.), *The quantitative analyses of behavior: Vol. 4. Discrimination processes* (pp. 273-293). Cambridge, MA: Ballinger.

Zentall, T. R. (1983). Abstract codes are not just for chimpanzees. *The Behavioral and Brain Sciences*, 6, 157-158.

1984

Zentall, T. R., & Edwards, C. A. (1984). Categorical color coding by pigeons. *Animal Learning & Behavior*, 12, 249-255.

Zentall, T. R., Hogan, D. E., & Edwards, C. A. (1984). Cognitive factors in conditional learning by pigeons. In H. L. Roitblat, T. G. Bever, & H. S. Terrace, (Eds.), *Animal cognition* (pp. 389-405). Hillsdale, NJ: Erlbaum.

Zentall, T. R. (1984). In support of cognitive theories. *The Behavioral and Brain Sciences*, 7, 654-655.

1985

Edwards, C. A., Miller, J. S., & Zentall, T. R. (1985). Control of pigeons' matching and mismatching performance by instructional cues. *Animal Learning & Behavior*, *13*, 383-391.

1986

Zentall, S. S., & Zentall, T. R. (1986). Hyperactivity ratings: Statistical regression provides an insufficient explanation of practice effects. *Journal of Pediatric Psychology*, *11*, 393-396.

Urcuioli, P. J., & Zentall, T. R. (1986). Retrospective memory in pigeons' delayed matching-to-sample. *Journal of Experimental Psychology: Animal Behavior Processes*, *12*, 69-77.

Zentall, T. R., Jackson-Smith, P., Jagielo, J. A., & Nallan, G. B. (1986). Categorical shape and color coding by pigeons. *Journal of Experimental Psychology: Animal Behavior Processes*, *12*, 153-159.

Jagielo, J. A., & Zentall, T. R. (1986). Predictable long-delay matching-to-sample trials results in long-latency sample responding by pigeons. *Learning and Motivation*, *17*, 269-286.

1987

Edwards, C. A., Miller, J. S., Zentall, T. R., & Jagielo, J. A. (1987). Effects of stimulus dimension and of trial and intertrial illumination on acquisition of a match/mismatch task by pigeons. *Animal Learning & Behavior*, *15*, 25-34.

Zentall, T. R., Jagielo, J. A., Jackson-Smith, P., & Urcuioli, P. J. (1987). Memory codes in pigeon short-term memory: Effect of varying number of sample and comparison stimuli. *Learning and Motivation*, *18*, 21-33.

1988

Zentall, T. R. & Galef, B. G. Jr. (Eds.). (1988). *Social learning: Psychological and biological perspectives*. Hillsdale, NJ: Erlbaum.

Zentall, T. R. (1988). Experimentally manipulated imitative behavior in rats and pigeons. In T. R. Zentall & B. G. Galef, Jr. (Eds.), *Social learning: Psychological and biological perspectives* (pp. 191-206). Hillsdale, NJ: Erlbaum.

1989

Zentall, T. R., Urcuioli, P. J., Jagielo, J. A., & Jackson-Smith, P. (1989). Interaction of sample dimension and sample-comparison mapping on pigeons' performance of delayed conditional discriminations. *Animal Learning & Behavior*, *17*, 172-178.

Urcuioli, P. J., Zentall, T. R., Jackson-Smith, P., & Steirn, J. N. (1989). Evidence for common coding in many-to-one matching: Retention, intertrial interference, and transfer. *Journal of Experimental Psychology: Animal Behavior Processes*, *15*, 264-273.

1990

Urcuioli, P. J., & Zentall, T. R. (1990). On the role of trial outcomes in delayed discriminations. *Animal Learning & Behavior*, *18*, 141-150.

Zentall, T. R., Steirn, J. N., & Jackson-Smith, P. (1990). Memory strategies in pigeons' performance of a radial-arm-maze analog task. *Journal of Experimental Psychology: Animal Behavior Processes*, *16*, 358-371.

Zentall, T. R., Jackson-Smith, P., & Jagielo, J. A. (1990). Categorical color and shape coding by pigeons. In M. L. Commons, R. J. Herrnstein, & S. Kosslyn (Eds.), *The quantitative analyses of behavior: Vol. 8. Pattern recognition and concepts in animals, people, and machines* (pp. 3-21). Hillsdale, NJ: Erlbaum.

Zentall, T. R. (1990). Not so elementary, my dear Watson. [Review of *Mechanical man*]. *Contemporary Psychology*, *35*, 841-842.

1991

Strength, V., & Zentall, T. R. (1991). Matching and oddity learning in pigeons: Effects of penalty time for incorrect responding. *Animal Learning & Behavior*, *19*, 49-57.

Zentall, T. R., Steirn, J. N., Sherburne, L. M., & Urcuioli, P. J. (1991). Common coding in pigeons assessed through partial versus total reversals of many-to-one conditional and simple discriminations. *Journal of Experimental Psychology: Animal Behavior Processes*, *17*, 194-201.

Steirn, J. N., Jackson-Smith, P., & Zentall, T. R. (1991). Mediation use of internal representations of food and no-food events by pigeons. *Learning and Motivation*, *22*, 353-365.

Zentall, T. R., Urcuioli, P. J., Jackson-Smith, P., & Steirn, J. N. (1991). Memory strategies in pigeons. In L. Dachowski & C. F. Flaherty (Eds.), *Current topics in animal learning: Brain, emotion, and cognition* (pp. 119-139). Hillsdale, NJ: Erlbaum.

Zentall, T. R. (1991). What to do about peer review: Is the cure worse than the disease? *The Behavioral and Brain Sciences*, *14*, 166-167.

Zentall, T. R. (1991). "Bouncing back" from a loss: A statistical artifact. *Bulletin of the Psychonomic Society*, *29*, 384-386.

1992

Steirn, J. N., Zentall, T. R., & Sherburne, L. M. (1992). Pigeons' performances of a radial-arm-maze analog task: Effect of spatial distinctiveness. *Psychological Record*, *42*, 255-272.

Urcuioli, P. J., & Zentall, T. R. (1992). Transfer across delayed discriminations: Evidence regarding the nature of prospective working memory. *Journal of Experimental Psychology: Animal Behavior Processes*, *18*, 154-173.

Zentall, T. R., Sherburne, L. M., Steirn, J. N., Randall, C. K., Roper, K. L., & Urcuioli, P. J. (1992). Common coding in pigeons: Partial versus total reversals of one-to-many conditional discriminations. *Animal Learning & Behavior*, *20*, 373-381.

Zentall, T. R., Sherburne, L. M., & Steirn, J. N. (1992). Development of excitatory backward associations during the establishment of forward associations in a delayed conditional discrimination by pigeons. *Animal Learning & Behavior*, *20*, 199-206.

1993

Jackson-Smith, P. A., Zentall, T. R., & Steirn, J. N. (1993). Prospective and retrospective memory processes in pigeons' performances on a successive delayed matching-to-sample task. *Learning and Motivation*, *24*, 1-22.

Sherburne, L. M., & Zentall, T. R. (1993). Coding of feature and no-feature events by pigeons in a delayed conditional discrimination. *Animal Learning & Behavior*, *21*, 92-100.

Steirn, J. N., Zentall, T. R., & Sherburne, L. M. (1993). Representation strength in pigeon short-term memory: Effect of delay training. *Animal Learning & Behavior*, *21*, 113-119.

Roper, K. L., & Zentall, T. R. (1993). Directed forgetting in animals. *Psychological Bulletin*, *113*, 513-532.

Sherburne, L. M., & Zentall, T. R. (1993). Asymmetrical coding of food and no-food events by pigeons: Sample pecking versus food as the basis of the sample code. *Learning and Motivation*, *24*, 141-155.

Zentall, T. R., Sherburne, L. M., & Urcuioli, P. J. (1993). Common coding in a many-to-one delayed matching task as evidenced by facilitation and interference effects. *Animal Learning & Behavior* *21*, 233-237.

Zentall, T. R., & Urcuioli, P. J. (1993). Emergent relations in the formation of stimulus classes by pigeons. *Psychological Record*, *43*, 795-810.

Urcuioli, P. J., & Zentall, T. R. (1993). A test of comparison-stimulus substitutability following one-to-many matching by pigeons. *Psychological Record*, *43*, 725-744.

Zentall, T. R. (Ed.). (1993). *Animal cognition: A tribute to Donald A. Riley*. Hillsdale, NJ: Erlbaum.

Zentall, T. R. (1993). Animal cognition: An approach to the study of animal Behavior. In T. R. Zentall (Ed.), *Animal cognition: A tribute to Donald A. Riley* (pp. 3-15). Hillsdale, NJ: Erlbaum.

Zentall, T. R., Sherburne, L. M., & Steirn, J. N. (1993). Common coding and stimulus class formation in pigeons. In T. R. Zentall (Ed.), *Animal cognition: A tribute to Donald A. Riley* (pp. 217-236). Hillsdale, NJ: Erlbaum.

Zentall, T. R. (1993). Mechanisms of Learning [Review of *Perceptual and associative learning*, by G. Hall]. *Science*, *360*, 834.

Zentall, T. R. (1993). The assessment of intentionality in animals. *Behavioral and Brain Sciences*, *16*, 663.

1994

- Roper, K. L., & Zentall, T. R. (1994). Directed forgetting in pigeons: The role of retention interval keypecking on delayed matching accuracy. *Learning and Motivation*, 25, 26-44.
- Zentall, T. R., & Sherburne, L. M. (1994). Transfer of value from S+ to S- in a simultaneous discrimination. *Journal of Experimental Psychology: Animal Behavior Processes*, 20, 176-183.
- Urcuioli, P. J., DeMarse, T., & Zentall, T. R. (1994). Some properties of many-to-one matching with hue, response, and food samples: Retention and mediated transfer. *Learning and Motivation*, 25, 175-200.
- Zentall, T. R., & Sherburne, L. M. (1994). The role of differential sample responding in the differential outcomes effect involving delayed matching by pigeons. *Journal of Experimental Psychology: Animal Behavior Processes*, 20, 390-402.
- Zentall, T. R. (1994). Effects of experimenters on their animal subjects can be the source of valuable knowledge [Review of *The inevitable bond*, by H. Davis & D. Balfour]. *International Journal of Comparative Psychology*, 7, 87-89. [Also published in *Psychology* 4(48) human-animal-bond.4.zentall.]

1995

- Steirn, J. N., Weaver, J. E., & Zentall, T. R. (1995). Transitive inference in pigeons: Simplified procedures and a test of value transfer theory. *Animal Learning & Behavior*, 23, 76-82.
- Zentall, T. R., Roper, K. L., & Sherburne, L. M. (1995). Most directed forgetting in pigeons can be attributed to the absence of reinforcement on forget trials during training or to other procedural artifacts. *Journal of the Experimental Analysis of Behavior*, 63, 127-137.
- Sherburne, L. M., & Zentall, T. R. (1995). Delayed matching in pigeons with food and no-food samples: Further examination of backward associations. *Animal Learning & Behavior*, 23, 177-181.
- Zentall, T. R., Sherburne, L. M., & Urcuioli, P. J. (1995). Coding of hedonic and nonhedonic samples by pigeons in many-to-one delayed matching. *Animal Learning & Behavior*, 23, 189-196.
- Urcuioli, P. J., Zentall, T. R., & DeMarse, T. (1995). Transfer to derived sample-comparison relations by pigeons following many-to-one versus one-to-many matching with identical training relations. *Quarterly Journal of Experimental Psychology*, 48B, 158-178.
- Roper, K. L., Kaiser, D. H., & Zentall, T. R. (1995). True directed forgetting in pigeons may occur only when alternative working memory is required on forget-cue trials. *Animal Learning & Behavior*, 23, 280-285.
- Sherburne, L. M., & Zentall, T. R. (1995). Pigeons transfer between conditional discriminations with differential outcomes in the absence of differential-sample-responding cues. *Animal Learning & Behavior*, 23, 273-279.
- Zentall, T. R. (1995). The cost of an interrupted response pattern. *Behavioral and Brain Sciences*, 18, 147-148.

1996

- Zentall, T. R., Sherburne, L. M., Roper, K. L., & Kraemer, P. J. (1996). Value transfer in a simultaneous discrimination appears to result from within-event Pavlovian conditioning. *Journal of Experimental Psychology: Animal Behavior Processes*, *22*, 68-75.
- Zentall, T. R., Sutton, J. E., & Sherburne, L. M. (1996). True imitative learning in pigeons. *Psychological Science*, *7*, 343-346.
- Akins, C. K., & Zentall, T. R. (1996). Imitative learning in male Japanese quail (*Coturnix japonica*) involving the two-action method. *Journal of Comparative Psychology*, *110*, 316-320.
- Zentall, T. R., Weaver, J. E., & Sherburne, L. M. (1996). Value transfer in concurrent-schedule discriminations by pigeons. *Animal Learning & Behavior*, *24*, 401-409.
- Zentall, T. R., & Smeets, P. M. (Eds.). (1996). *Stimulus class formation in humans and animals*. Amsterdam: North Holland.
- Zentall, T. R. (1996). An analysis of imitative learning in animals. In C. M. Heyes & B. G. Galef, Jr. (Eds.), *Social learning and tradition in animals* (pp. 211-243). Hillsdale, NJ: Erlbaum.
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