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Home
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EDUCATION

Doctorate of Philosophy, Experimental Psychology, May 2007

University of Kentucky, Lexington, KY

Dissertation: Differential Outcomes Effect Produced by Different Feeder Locations

Advisor: Thomas R. Zentall

Master of Science, Experimental Psychology, August 2002

University of Kentucky, Lexington, KY

Thesis: Work ethic in animals: Pigeons prefer food locations that require greater effort to obtain

Advisor: Thomas R. Zentall

Bachelor, Psychology, December 1996

Universidade Mackenzie, São Paulo, Brazil

Majors: Clinical, Organizational and Educational Psychology

Teaching License, Psychology - High Schools, December 1995

Universidade Mackenzie, São Paulo, Brazil

PUBLICATIONS

Friedrich, A. M., & Zentall, T. R. (in press). **A Relational Differential Outcomes Effect: Pigeons Can Classify Outcomes As “good” And “better”**. *Animal Cognition*.

Miller, H. C., **Friedrich, A. M.**, Narkavic, R. J. , & Zentall, T. R. (2009). A Differential-Outcomes Effect Using Hedonically Nondifferential Outcomes With Delayed Matching-to-Sample by Pigeons. *Learning & Behavior*, 37(2), 161-166.

Friedrich, A. M., Zentall, T. R., & Weisman, R. (2007). Absolute Pitch: Frequency-Range Discriminations in Pigeons (*Columbia livia*) - Comparisons with Zebra Finches (*Taeniopygia guttata*), and Humans (*Homo sapiens*). *Journal of Comparative Psychology*, 121(1), 95-105.

Zentall, T. R. , **Friedrich, A. M.**, & Clement, T. S. (2006). Required pecking alters judgments of the passage of time by pigeons. *Psychonomic Bulletin & Review*, 13(6), 1038-1042.

Zentall, T.R., Clement, T.S., **Friedrich, A. M.**, & DiGian, K. A. (2006). Stimuli signaling rewards that follow a less preferred event are preferred: Implications for cognitive dissonance. In E. A. Wasserman & T. R. Zentall (Eds.), *Comparative Cognition: Experimental Explorations of Animal Intelligence*. New York: Oxford.

Friedrich, A. M., Clement, T. S., & Zentall, T. R. (2005). Discriminative stimuli that follow the absence of reinforcement are preferred by pigeons over those that follow reinforcement. *Learning & Behavior*, 33(3), 337-342.

DiGian, K.A., **Friedrich, A. M.**, & Zentall, T.R. (2004). Discriminative stimuli that follow a delay have added value for pigeons. *Psychonomic Bulletin & Review*, 11, 889-895.

Friedrich, A. M., & Zentall, T. R. (2004). Pigeons shift their preference toward locations of food that take more effort to obtain. *Behavioural Processes*, 67, 405-415

Friedrich, A. M., Clement, T. S., & Zentall, T. R. (2004). Functional equivalence in pigeons involving a four-member class. *Behavioural Processes*, 67, 395-403

Zentall, T. R., & **Friedrich, A. M.** (2003). Justification of effort by pigeons. In R. Alterman & D. Kirsch (Eds.), *Proceedings of the 25rd Annual Meeting of the Cognitive Science Society* p. 835. Hillsdale, NJ: Erlbaum.

Urcuioli, P. J., Pierce, J. N., Lionello-DeNolf, K. M., **Friedrich, A.**, Fetterman, J. G., & Green, C. (2002). The development of emergent differential sample behavior in pigeons. *Journal of the Experimental Analysis of Behavior*, 78, 409-432.

IN PREPARATION

Friedrich, A. M., & Zentall, T.R. Differential outcomes effect produced by hedonically similar outcomes.

Friedrich, A. M., & Zentall, T.R. Transfer based on hedonic state in pigeons.

CONFERENCE PRESENTATIONS

Zentall, T. R., Friedrich, A. M., Klein, E. D., & Singer, R. A. (2006, May). Wrinkles in Time Assessment in Animals: Production, Discrimination, Detection, and Subjectivity. Paper presented at the annual meeting of Society for the Quantitative Analyses of Behavior, Atlanta, GA.

Friedrich, A. M., & Zentall, T. R. (2005, May). Pigeons Use Anticipation of an Outcome as Additional Cue for Comparison Choice Paper presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

Weisman, R. , Friedrich, A., & Zentall, T. (2005, May). Using Behavior Analysis to Study the Evolution of Pitch Perception. Paper presented at the annual meeting for Quantitative Analysis of Behavior, Chicago, IL

Friedrich, A. M., Zentall, T.R., Weisman, R. (2005, March). The Specifics of Absolute Pitch Perception in Pigeons. Paper presented at the 12th Annual Comparative Cognitive Society Meeting. Merlbourne, FL.

Taylor, R. D., & Friedrich, A. M. (March, 2005). Food reinforced place preference in female Japanese quail (*Coturnix japonica*). Paper presented at the Fifty-first annual meeting of the Southwestern Psychological Association, Memphis, TN.

Weisman, R. , Cohen, J., Friedrich, A. M., & Zentall, T.R. (2004, September). Evolution of absolute pitch in birds and mammals. Paper presented at the Annual Meeting of the Spanish Society of Comparative Psychology, Oviedo, Spain

Friedrich, A. M., Morrell, D. & Zentall, T. R. (2004, May) . Pigeons have absolute pitch, humans don't. Paper presented at the fourth annual Spring Symposium in Ecology, Evolution and Behavior, University of Kentucky, Lexington, KY

Friedrich, A. M., & Zentall, T. R. (2004, April). A Differential Outcomes Effect Using Two Different Feeder Locations. Paper presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

Weisman, R. , Friedrich, A. M., Morrell, D. & Zentall, T.R. (2004, March). Absolute Pitch: forget about whether music training matters; what matters is whether you are a mammal or a bird. Paper presented at the 11th Annual Comparative Cognitive Society Meeting, Melrbourne, FL.

Friedrich, A. M., & Zentall, T. R. (2003, November). A differential outcomes effect using two different feeder locations. Paper presented at the meeting of the Psychonomic Society, Vancouver, BC, Canada

Friedrich, A. M., & Zentall, T. R. (2003, April). 'Work ethic' in animals: pigeons prefer food locations that require greater effort. Poster presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

Friedrich, A. M., & Zentall, T.R. (2003, March). Differential outcomes based on feeder location can serve as an effective cue for comparison choice. Oral presentation at the 10th Annual Comparative Cognitive Society Meeting.

RESEARCH EXPERIENCE

Summer 2004 Research Assistant for Dr. Thomas R. Zentall
Spring 2004 Department of Psychology, University of Kentucky, Lexington, KY
Fall 2003 Responsible for designing and conducting experiments that investigate coding
Summer 2003 strategies, contrast effects and changes in reward value in pigeons. Also responsible
Spring 2003 for collecting and analyzing data and supervising undergraduate students in data
Fall 2002 collection

Spring 1999 Graduate Research Assistant for Dr. Peter Urcuioli
Fall 1999 Department of Psychology, Purdue University, West Lafayette, IN
Responsible for conducting experiments that investigate coding
strategies in pigeons.

TEACHING EXPERIENCE

Spring 2009
Fall 2008
Summer 2008
Spring 2008
Fall 2007 Instructor, Experimental Psychology
Spring 2007 Department of Psychology, University of Kentucky, Lexington, KY
Fall 2006 Fully responsible for teaching
Spring 2006
Summer 2005

Spring 2009
Fall 2008
Summer 2008
Spring 2008 Instructor, Learning and Cognition
Fall 2007 Department of Psychology, University of Kentucky, Lexington, KY
Spring 2007 Fully responsible for teaching
Fall 2006
Spring 2006
Fall 2005
Summer 2005
Spring 2005

Spring 2009
Spring 2008
Fall 2007 Instructor, Introduction to Psychology
Fall 2006 Department of Psychology, University of Kentucky, Lexington, KY

Spring 2006 Fall 2005	Fully responsible for teaching
Fall 2006	<u>Instructor, Academic Orientation</u> University of Kentucky, Lexington, KY Fully responsible for teaching
Fall 2008 Fall 2005	<u>Instructor, Application of Statistics in Psychology</u> Department of Psychology, University of Kentucky, Lexington, KY Fully responsible for teaching
Fall 2004	<u>Laboratory Instructor, Learning</u> Department of Psychology, University of Kentucky, Lexington, KY Responsible for teaching a laboratory course which included performing two conditioned place preference experiments with quails as subjects
Fall 2004	<u>Laboratory Instructor, Experimental Psychology</u> Department of Psychology, University of Kentucky, Lexington, KY Responsible for teaching a laboratory course which included lectures on how to write papers on APA style
Spring 2002 Fall 2001 Summer 2001 Spring 2001	<u>Laboratory Instructor, Experimental Psychology</u> Department of Psychology, University of Kentucky, Lexington, KY Responsible for teaching a laboratory course which included lectures on how to write papers on APA style
Fall 2000	<u>Laboratory Instructor, Introduction to Psychology</u> Department of Psychology, University of Kentucky, Lexington, KY Responsible for teaching a laboratory course
Spring 2000 Fall 1999	<u>Teaching Assistant, Motivation</u> Department of Psychology, Purdue University, West Lafayette, IN Responsible for advising undergraduate students during office hours and grading exams
Spring 2000 Fall 1999	<u>Teaching Assistant, Research Methods</u> Department of Psychology, Purdue University, West Lafayette, IN Responsible for advising undergraduate students during office hours and grading exams
Feb. 1994 - Dec. 1995	<u>Laboratory Instructor, Experimental Psychology</u> Department of Psychology, Universidade Mackenzie, Sao Paulo, Brazil Responsible for teaching a laboratory course which included performing five operant conditioning experiments with rats as subjects
Aug. 1994 - Aug. 1995	<u>Teaching Assistant, Psychopathology I and II</u> Department of Psychology, Universidade Mackenzie, Sao Paulo, Brazil Responsible for grading assignments and reports of interviews conducted at a Psychiatric Hospital

RESEARCH AND TEACHING SUPERVISION EXPERIENCE

Internship supervision

Lacey Simonson, Lindsay Kampfer and Jessica Kroetz (site: Jumpstart)
University of Kentucky, 2008

Nicole Rauen (site: Linlee Elementary) and Lacey Simonson (site: Jumpstart)
University of Kentucky, 2006

Tiffany Cox (site: Gentiva Health Services)
University of Kentucky, 2005

Honors Thesis for Tasha Smith, BS in Psychology
University of Kentucky, 2002

Honors Thesis for Michal Cieraszynski, BS in Psychology
University of Kentucky, 2005

Training of new graduate teaching assistants
University of Kentucky, Fall 2004

Training undergraduate students to execute and collect data from scientific experiments
University of Kentucky, 2000-2005

Teaching undergraduates students how to effectively communicate scientific findings in oral and written presentations
University of Kentucky, 2000-2005

OTHER EXPERIENCE

Industrial/Organizational Psychologist

Aptus (São Paulo, Brazil).

Responsible for recruitment and selection. March 1997 - October 1997.

Intern

Centro Preparatorio de Oficiais da Reserva em São Paulo (C.P.O.R. – S.P.). (São Paulo, Brazil).

Responsible for applying psychometric, IQ and ability tests on military officers. March 1995 – December 1995.

Intern

Associação dos Amigos dos Excepcionais do Brooklin (São Paulo, Brazil). Responsible for developing group activities to stimulate children with mental disabilities. February 1995 – May 1995.

Intern

Lar do Alvorecer Cristão (São Paulo, Brazil). Responsible for developing activities to stimulate infants. March 1996 – December 1996.

GRADUATE COURSES TAKEN

PSY 622	Animal Learning (Purdue University)
STAT 501	Experimental Statistics I (Purdue University)
PSY 600	Statistical Inference (Purdue University)
PSY 601	Experimental Design (Purdue University)
PSY 615	Introduction to Psychobiology (Purdue University)
PSY 522	Pediatrics Clinical Psychology (Purdue University)
PSY 535	Psychology of Death and Dying (Purdue University)
PSY 633	Proseminar in Cognitive Psychology (Purdue University)
PSY 640	Survey of Social Psychology (Purdue University)
PSY 629	Motivation (Purdue University)
PSY 633	Animal Perceptual Processes (Purdue University)
PSY 633	Proseminar in Learning And Memory (Purdue University)
PSY 780	Problems in Psychology: Teaching of Psychology (University of Kentucky)
PSY 628	Proseminar in Cognitive Process (University of Kentucky)
PSY 772	Topic Seminar in Learning: Animal Cognition (University of Kentucky)
PSY 780	Problems in Psychology: Cog/Neuro/Devel Studies (University of Kentucky)
PSY 625	Proseminar in Developmental Psychology (University of Kentucky)
PSY 621	Proseminar in Learning (University of Kentucky)

