

Emily De Bow Klein

Language Research Center at Georgia State University

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EDUCATION

PhD, *Experimental Psychology*, University of Kentucky, 2005

Dissertation: Cocaine and Sucrose Cross-Sensitization.

Co-Advisors: Dr. Michael T. Bardo & Dr. Thomas R. Zentall

Master of Science, *Experimental Psychology*, University of Kentucky, 2002

Thesis: Imitation in Pigeons Using the Bidirectional Control Procedure

Advisor: Dr. Thomas R. Zentall

Master of Arts, *Teaching*, Trinity University, San Antonio, TX, 1996

Texas Elementary Certificate: Option I (English/History): Generic Special Education

Bachelor of Arts, *Humanities*, Trinity University, San Antonio, TX, 1995

GRANTS

Cocaine and Sucrose Cross-Sensitization in Rats, awarded 2004

National Service Research Award (predoctoral): National Institute of Health

Sponsors: Dr. Michael Bardo & Dr. Thomas Zentall, University of Kentucky

PUBLICATIONS

Nguyen, N. H., Klein, E. D., & Zentall, T. R. (2005). Evidence for imitation of a two-action sequence in pigeons. *Psychonomic Bulletin and Review*, 12(3), 514-518.

Klein, E. D., Bhatt, R. S., & Zentall, T. R. (2005). Contrast and the justification of effort. *Psychonomic Bulletin and Review*, 12(2), 335-339.

Zentall, T. R., Klein, E. D., & Singer, R. S. (2004). Evidence for detection of one duration sample and default responding to others by pigeons may result from an artifact of retention-test ambiguity. *Journal of Experimental Psychology: Animal Behavior Processes*, 30(2), 129-134.

Klein, E. D. & Zentall, T. R. (2003). Imitation and affordance learning by pigeons (*Columba livia*). *Journal of Comparative Psychology*, 117(4), 414-419.

Akins, C. K., Klein, E. D., & Zentall, T. R. (2002). Imitation in Japanese quail (*Coturnix japonica*) using the bidirectional control procedure. *Animal Learning and Behavior*, 30(3), 275-281.

ARTICLES SUBMITTED

Singer, R. S., Klein, E. D., & Zentall, T. R. (submitted). Use of a single-code/default strategy by pigeons to solve duration sample discriminations. *Journal of Experimental Psychology: Animal Behavior Processes*.

Stairs, D. J., Klein, E. D., & Bardo, M. T. (submitted). Effects of environmental enrichment on extinction and reinstatement of amphetamine self-administration and sucrose-maintained responding. *Behavioral Pharmacology*.

Klein, E. D., Gehrke, B. J., Green, T. A., Zentall, T. R., & Bardo, M. T. (submitted).
The effects of cocaine on sucrose-reinforced operant responding in enriched and isolated rats. *Pharmacology, Biochemistry, and Behavior*.

PRESENTATIONS

- Klein, E. D. & Washburn, D. A. (2006). The emergence of equivalence in rhesus monkeys. To be presented at the Southern Society for Philosophy and Psychology. Charleston, SC April 13-15.
- Klein, E. D. & Bardo, M. T. (2006). Delayed reward discounting in differentially reared rats. To be presented at the 52nd Annual Meeting of the Southeastern Psychological Association. Atlanta, GA March 16-19.
- Klein, E. D., Stairs, D. J., & Bardo, M. T. (2006). Extinction and reinstatement of lever pressing in enriched and isolated rats: Differential effects of amphetamine and sucrose. Presented at the Winter Conference on Animal Learning and Behavior. Winter Park, CO February 5-9.
- Klein, E. D. & Bardo, M. T. (2005). Environmental enrichment produces a long-lasting decrease in impulsive behavior: Preclinical implications for drug abuse prevention. Presented at The College on Problems of Drug Dependence (CPDD). Orlando, FL June 18-23.
- Stairs, D. J., Klein, E. D., & Bardo, M. T. (2005). Extinction and reinstatement of amphetamine self-administration and sucrose-maintained responding in differentially reared rats. Presented at The College on Problems of Drug Dependence (CPDD). Orlando, FL June 18-23.
- Klein, E. D., Stairs, D. J., & Bardo, M. T. (2005). Acquisition, extinction, and reinstatement of operant responding in differentially reared rats. Presented at the International Conference on Comparative Cognition. Melbourne, FL March 16-19.
- Klein, E. D. & Bardo, M. T. (2005). Repeated cocaine exposure does not increase sucrose "liking". Presented at the Winter Conference on Animal Learning and Behavior. Winter Park, CO February 5-9.
- Klein, E. D., Nguyen, N. H., & Zentall, T. R. (2004). Imitation of a two-action sequence in pigeons. Presented at the International Conference on Comparative Cognition. Melbourne, FL March 24-28.
- Klein, E. D., Singer, R. S., & Zentall, T. R. (2003). Timing in pigeons: Results may be biased by confusion between the delay and intertribal interval. Presented at the 75th Annual Meeting of the Midwestern Psychological Association. Chicago, IL May 8-10.
- Klein, E. D., Bhatt, R. S., Zentall, T. R. (2003). Your parents were right, you WILL appreciate your car more if you pay for it yourself: A work ethic effect in humans. Presented at the 16th Annual Tri-State Conference on Animal Learning and Behavior. Indiana University, Bloomington, IN April 11-12.
- Singer, R. A., Klein, E. D., & Zentall, T. R. (2003). Memory for time by pigeons depends on their "understanding" of what the delay means. Presented at the 16th Annual Tri-State Conference on Animal Learning and Behavior. Indiana University, Bloomington, IN April 11-12.
- Klein, E. D. & Zentall, T. R. (2003). Sample matching in pigeons: Divergent retention functions may results from ambiguity between the delay and the intertrial interval. Presented at the International Conference on Comparative Cognition. Melbourne, FL March 19-22.

- Zentall, T. R., Akins, C. K., & Klein, E. D. (2002). Imitation in Japanese quail using the bidirectional control procedure. Presented at Psychonomic Society 43rd Annual Meeting. Kansas City, MO November 21-24.
- Gehrke, B. J., Klein, E. D., Bardo, M. T. (2002). Effects of novelty on amphetamine self administration in enriched and isolated rats. Poster presented at 32nd Annual Meeting of the Society for Neuroscience. Orlando, FL November 2-7.
- Gehrke, B. J., Green, T. A., Klein, E. D., & Bardo, M. T. (2002). The effects of environmental enrichment on operant and non-operant sucrose consumption in rats. Presented at the 74th Annual Meeting of the Midwestern Psychological Association. Chicago, IL May 2-4.
- Klein, E. D., Green, T. A., Gehrke, B. J., Zentall, T. R., & Bardo, M. T. (2002). The effects of cocaine on sucrose-reinforced operant responding in enriched and isolated rats. Presented at the 74th Annual Meeting of the Midwestern Psychological Association. Chicago, IL May 2-4.
- Klein, E. D. & Zentall, T. R. (2002). Evidence for both imitation and object movement re-enactment in pigeons. Presented at the 15th Annual Tri-State Conference on Animal Learning and Behavior. University of Kentucky, Lexington, KY April 12-13.
- Klein, E. D., Green, T. A., Gehrke, B. J., Zentall, T. R., & Bardo, M. T. (2002). The effects of cocaine on motivation for sucrose reward in enriched and isolated rats. Poster presented at the 50th Annual Nebraska Symposium on Motivation. University of Nebraska, Lincoln, NE March 28-29.
- Klein, E. D. & Zentall, T. R. (2002). Imitation in pigeons using the bidirectional control procedure. Presented at the International Conference on Comparative Cognition. Melbourne, FL March 13-16.
- Klein, E. D. & Zentall, T. R. (2001). Imitation in pigeons: Controlling for affordances using the bidirectional control procedure. Presented at the 14th Annual Tri-State Conference on Animal Learning and Behavior. Ohio State University, Columbus, OH May 11-12.
- Klein, E. D. & Zentall, T. R. (2001). Affordances cannot account for imitation in pigeons. Poster presented at the 73rd Annual Meeting of the Midwestern Psychological Association. Chicago, IL May 3-5.

RESEARCH EXPERIENCE

Sept 2005-present	Postdoctoral Researcher , Language Research Center Georgia State University Supervisor: Dr. David Washburn
Sept 2004-Dec 2005	Predoctoral NRSA Researcher , University of Kentucky Sponsors: Dr. Michael T. Bardo & Dr. Thomas R. Zentall
June 2004-Aug 2004	Research Assistant , University of Kentucky Supervisor: Dr. Thomas R. Zentall
June 2002-Dec 2003	Research Assistant , University of Kentucky Supervisor: Dr. Thomas R. Zentall
Sept 2001-Dec 2001	Research Assistant , University of Kentucky Supervisor: Dr. Chana K. Akins

May 2001-Aug 2001 **Research Assistant**, University of Kentucky
Supervisor: Dr. Michael T. Bardo

Sept 1999-Aug 2000 **Research Assistant**, University of Kentucky
Supervisor: Dr. Thomas R. Zentall

COLLEGE TEACHING EXPERIENCE

Spring 2006 **Guest Lecturer**, Georgia State University
PSY 4120: Learning

Jan 2004-May 2004 **Teaching Assistant**, University of Kentucky
PSY 215: Experimental Psychology
Supervisor: Dr. Ron Taylor

Fall 2003 **Guest Lecturer**, University of Kentucky
PSY 564: Advanced Topics in Learning
PSY 195: Orientation to Psychology

Fall 2002 **Guest Lecturer**, University of Kentucky
PSY 552: Animal Behavior

Jan 2002-May 2002 **Teaching Assistant**, University of Kentucky
PSY 552: Animal Behavior
Supervisor: Dr. Thomas R. Zentall

Jan 2001-May 2001 **Teaching Assistant**, University of Kentucky
PSY 215: Experimental Psychology
Supervisor: Dr. Ron Taylor
PSY 552: Animal Behavior
Supervisor: Dr. Thomas R. Zentall

Sept 2000-Dec 2000 **Teaching Assistant**, University of Kentucky
PSY 100: Introductory Psychology
Supervisors: Dr. Phillip Kraemer
Dr. Jonathan Golding

AWARDS AND FELLOWSHIPS

2005 **NIDA Director's Travel Award**
For travel to CPDD in Orlando FL
CDART Travel Award
For travel to CPDD in Orlando FL

2004 **Research Challenge Trust Fund Student Travel Award**
University of Kentucky

2003 **Commonwealth Research Award**
University of Kentucky

2001-2004 **Student Support** (Graduate Student Travel Award)
University of Kentucky

1999-2000 **Haggin Fellowship**
University of Kentucky

1996 **Brackenridge Foundation Fellowship**
Trinity University

1995 **Halsell Foundation Fellowship**
Trinity University

ADDITIONAL EXPERIENCE

- 2005 **Ad-hoc Reviewer**, *International Journal of Psychology and Psychological Therapy*
- 2005 **Ad-hoc Reviewer**, *Animal Cognition*
- 2004 **Ad-hoc Reviewer**, *Pharmacology Biochemistry and Behavior*
- 2004 **Volunteer, Aquatics Area**
Louisville Zoo, Louisville, KY
- 1998-1999 **Special Education Teacher**
Autism Treatment Center, Dallas, TX
- 1996-1998 **Developmental Skills Teacher**
Richardson Independent School District, Richardson, TX

MEMBERSHIP

- American Psychological Association
- Animal Behavior Society
- Comparative Cognition Society
- PADI Certified Open Water diver