**Curriculum Vitae**

Pamela A. Jackson

**Personal Information**

Previously: Pamela A. Jackson-Smith

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**Education**

Ph.D.: Behavioral and Neural Studies - Psychology. 1989.

University of Kentucky, Lexington, KY.

M.A.: Behavioral and Neural Studies - Psychology. 1983.

University of Kentucky, Lexington, KY.

B.A.: Psychology. 1980.

Berea College, Berea, KY.

**Professional Experience**

2005 – present Professor. Radford University, Radford, VA.

1999 – 2005 Associate Professor. Radford University, Radford, VA.

1993 - 1998 Assistant Professor. Radford University, Radford, VA.

1989-1993 Adjunct Assistant Professor. University of Utah,

Salt Lake City, UT.

1988-1993 Postdoctoral Fellow. University of Utah, Salt Lake

City, UT. (Physiological Psychology with Dr. Raymond Kesner).

1986-1987 Graduate Research Assistant. University of Kentucky,

Lexington, KY. (Animal Cognition with Dr. Thomas Zentall).

1983 Biological Lab Technician. National Institute of Drug Abuse,

Addiction Research Center, Lexington, KY. (With Dr. Marc Risner).

1980-1988 Graduate Teaching Assistant. University of Kentucky,

Lexington, KY.

**Grants, Honors, and Awards**

2010 Awarded a Radford University Summer Research Grant entitled : *Adolescent Exposure to Marijuana in Rats: Sex Differences in Adulthood.* $ 8303.56

2006-2008 Reviewer on an NIH Special Emphasis Grant Panel in response to PA-00-068 and PA-00-069, Predoctoral Fellowship Awards for Minority Students and Students with Disabilities.

2007 Faculty/Student Collaborative Grant award entitled *Long-term Effects of Chronic Adolescent CP 55,940 Administrations on Anxiety Related Behaviors in Male Rats*, in collaboration with graduate student Walter Shackelford. $734.00

2007 Faculty/Student Collaborative Grant award entitled *Effect of Prenatal Stress and Adolescent Exposure to Marijuana on Long-Evans Rats: A Model for Schizophrenia*, in collaboration with graduate student Alyson Woleslagle. $707.00

2006 Awarded Sabbatical leave for the Fall of 2006.

2006 Ryan Vetreno and I won the RU College of Graduate and Extended Education Award for the Best Research Thesis.

2006 Mentoring Awards Program (MAP) grant entitled *Changes in Glutamate in Frontal Cortex and Hippocampus Following Chronic Administration of a Cannabinoid in Rats* funded. $12,805.00

2006 Faculty Development Grant Supporting Scholarly and Creative activities funded. $1500.00

2005 An equipment request for research and teaching was funded out of one-time developmental funds from the College of Arts and Sciences at Radford University. $3845.00

2005 Salary stipend request for summer money was funded by the College of Arts and Sciences at Radford University. $3500.00

2004 Faculty/Student Collaborative Grant funded by the RU Foundation, in collaboration with graduate student Tiffany Thomas. $600.00

2004 Project proposal funded for one-time developmental funds from the College of Arts and Sciences at Radford University. $1600.00

2003 Student/Faculty Collaborative Grant funded by the RU Foundation, in collaboration with graduate student Janea Swander. $750.00

2002 Seed grant from Radford University entitled: Role of the vibrissae in 3-d object recognition in rats. $3000.00

2001 Grant from NSF to do research with Raymond Kesner at

the University of Utah for 2 months during the summer.

The grant is a component of the Research in Undergraduate

Institutions (RUI) program and is a Research Opportunity

Award (ROA). The project involved examination of the

role of the rat whiskers, parietal cortex, and hippocampus

in habituation to object features. $13,080.00

1999 Grant from Radford University entitled: Development and

Production of Training Materials to Teach Technicians,

Researchers, and Students in the Proper Care and Use of

Laboratory Rodents at Radford University. $3600.00

1999 Grant from Radford University for Histological Laboratory

supplies necessary for teaching and research. $615.55

1999 Grant from Radford University to attend two conferences

presented consecutively on animal care and use (Public

Responsibility in Medicine and Research Conference and

Applied Research Ethics National Association Conference)

$1772.00

1998 Grant from Radford University for software to complete an earlier

grant. Title: Upgrade of Laboratory Courses in Human and Animal

Learning. Co-PI with Drs. Willner and Allen. $1055.00

1997 Seed Grant from Radford University for a research project entitled:

Functional analysis of the vibrissal system in rats. $4386.00

1997 Grant from Radford University for Upgrade of

Departmental Laboratory Courses in Human and

Animal Learning. Co-PI with Dr. Willner. $2040.00

1994 Faculty Professional and Instructional Development Grant

from Radford University. Co-PI with Dr. King. $1622.20

1985 Outstanding Graduate Student Research Award.

Sigma *X*i; University of Kentucky, Lexington, KY.

**Teaching Experience**

Introductory Psychology

Research Methods in Psychology (Undergraduate and Graduate)

Statistics (Undergraduate)

Animal Behavior (Undergraduate)

Principles of Learning (Undergraduate and Graduate, Laboratory and Lecture)

Advanced Learning (Undergraduate, Laboratory)

Comparative Cognition (Undergraduate and Graduate)

Physiological Psychology (Undergraduate and Graduate, Laboratory and Lecture)

Techniques in Brain Surgery and Histology in Rats (Laboratory)

Psychopharmacology (Undergraduate and Graduate, Laboratory and Lecture)

**Laboratory Animal Care and Use Training**

2011 Update to the *Guide for the Care and Use of Laboratory Animals* workshop held in Research Triangle Park, NC, and sponsored by the North Carolina Association for Biomedical Research.

2009 Laboratory Animal Science 4-day workshop sponsored by Charles

River Laboratories in Danvers, MA.

2005 IACUC 101 and IACUC 201 in Delray Beach, FL. Workshops

co-sponsored by Florida Atlantic University and NIH’s Office of

Laboratory Animal Welfare (OLAW).

2003 ARENA (Applied Research Ethics National Association) workshop

for Institutional Animal Care and Use at Vanderbilt University

in Nashville, TN.

2001 Approval for Virginia Controlled Substances Registration with the

Board of Pharmacy, and a Controlled Substance Registration

Certificate from the United States Department of Justice, Drug

Enforcement Administration (DEA). DEA Schedule II and above

license maintained continuously since 2001.

# Manuscripts in Preparation

Furrow, A. L., Jackson, P. A., Curry, M., & Hartless, C. B. (In preparation). Chronic adolescent exposure to cannabinoids and environmental factors interact to change vulnerability for later development of psychopathology.

Jackson, P. A., Chiba, A. A., Berman, R. F., & Ragozzino, M. E. (Eds.) (In preparation). *The Neurobiological Basis of Memory: A System, Attribute, and Process Analysis (A Festschrift in Honor of Raymond P. Kesner).*

Swander, J. A., & Jackson, P. A. (Under revision). Effects of prenatal stress on the physical and behavioral development of Long-Evans rats.

Vetreno, R. P., Jackson, P. A., & Malone, S. A. (Under revision). Long-term effects of chronic administration of CP 55,940 on behavior in adolescent male and female rats.

**Publications**

Chiba, A. A., Kesner, R. P., & Jackson, P. A. (2002). Two forms of spatial memory: A double dissociation between the parietal cortex and the hippocampus in the rat. *Behavioral Neuroscience, 116*(5), 874-883.

Kesner, R. P., Ravindranathan, A., Jackson, P., Giles, R., & Chiba, A. A. (2001). A neural circuit analysis of visual recognition memory: Role of perirhinal, medial, and lateral entorhinal cortex. *Learning & Memory, 8*, 87-95.

Jackson, P. A., Kesner, R. P., & Amann, K. (1998). Memory for duration: Role of hippocampus and medial prefrontal cortex. *Neurobiology of Learning and Memory, 70*, 328-348.

Fremouw, T., Jackson-Smith, P., & Kesner, R. P. (1997). Impaired place learning and unimpaired cue learning in hippocampal-lesioned pigeons. *Behavioral Neuroscience, 111*(5), 963-975.

Kesner, R. P., Jackson-Smith, P., Henry, C., & Amann, K. (1995). Effects of Ibogaine on sensory-motor function, activity, and spatial learning in rats. *Pharmacology, Biochemistry, and Behavior, 51*, 103-109.

Kesner, R. P., Chiba, A. A., & Jackson-Smith, P. (1994). Rats do show primacy and recency effects in memory for lists of spatial locations: A reply to Gaffan. *Animal Learning & Behavior, 22*, 214-218.

Jackson-Smith, P., Kesner, R. P., & Chiba, A. A. (1993). Continuous recognition of spatial and nonspatial stimuli in hippocampal-lesioned rats. *Behavioral and Neural Biology, 59*, 107-119.

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

Kesner, R. P., & Jackson-Smith, P. (1992). Neurobiology of an attribute model of memory: Role of prefrontal cortex. In I. Gormezano & E. A. Wasserman (Eds.), *Learning and Memory: Behavioral and Biological Substrates*. Hillsdale, NJ: Erlbaum.

Steirn, J. N., Jackson-Smith, P., & Zentall, T. R. (1991). Mediational 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*. Hillsdale, NJ: Erlbaum.

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. A., & Jagielo, J. A. (1990). Categorical color and shape coding by pigeons. In M. L. Commons, R. J. Herrnstein, S. M. Kosslyn, & D. B. Mumford (Eds.), *Quantitative analyses of Behavior: Vol. 8, Behavioral Approaches to Pattern Recognition and Concept Formation*. Harvard Symposium. Hillsdale, NJ: Erlbaum.

Jagielo, J. A., Nonneman, A. J., Isaac, W. L., & Jackson-Smith, P. A. (1990). Hippocampal lesions impair rats' performance of a nonspatial matching-to-sample task. *Psychobiology, 18*, 55-62.

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.

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

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

Risner, M. E., Jackson-Smith, P., & Cone, E. J. (1985). Discriminative stimulus properties and schedule effects of fencamfamine in rats. *Pharmacology, Biochemistry and Behavior, 23*, 449-456.

Spivey, J. E., & Jackson-Smith, P. (1984). The electronic chalkboard. *Behavior Research Methods & Instrumentation, 16*, 172-175.

Spivey, J. E., & Jackson-Smith, P. (1983). Computer simulation: A case of conflict. *Behavior Research Methods & Instrumentation, 15*, 187-190.

**Presentations at National and/or International Conferences:**

Furrow, A. L., & Jackson, P.A. (November, 2011). Chronic cannabinoid exposure during adolescence in female rats: Persistent emotional effects in adulthood. Presented at the 41st Annual Meeting of the Society for Neuroscience. *Abstract Viewer and Itinerary Planner*. Washington, DC: Society for Neuroscience, 2011. Online.

Medina, A. L., Furrow, A. L., & Jackson, P.A. (November, 2010). Chronic exposure to cannabionoids during adolescence: Anxiety and depression in rats. Presented at the 40th Annual Meeting of the Society for Neuroscience. *Abstract Viewer and Itinerary Planner*. Washington, DC: Society for Neuroscience, 2010. Online.

Woleslagle, A.R., Shackelford, W.L., Glover, A.M., & Jackson, P.A. (November, 2008). Prenatal stress and adolescent exposure to cannabinoids in Long-Evans rats: A model for schizophrenia. Presented at the 38th Annual Meeting of the Society for Neuroscience. *Abstract Viewer and Itinerary Planner*. Washington, DC: Society for Neuroscience, 2008. Online.

Woleslagle, A. R., Shackelford, W. L., Glover, A. M., & Jackson, P. A. (November, 2008). Prenatal stress and adolescent exposure to cannabinoids in Long-Evans rats: A model for schizophrenia. Program No. 761.17. Presented at the 38th Annual Meeting of the Society for Neuroscience. *Abstract Viewer and Itinerary Planner.* Washington, DC: Society for Neuroscience, 2008. Online.

Malone, S. A., Jackson, P. A, Sprague, J. E., & Vetreno, R. P. (November, 2007). Chronic administration of CP 55,940 alters DA and 5-HT concentrations in the frontal cortex of male rats. Program No. 914.8. Presented at the 37th Annual Meeting of the Society for Neuroscience. *Abstract Viewer and Itinerary Planner.* Washington, DC: Society for Neuroscience, 2007. Online.

Malone, S. A., Sprague, J. E., Vetreno, R. P., & Jackson, P. A. (October, 2006). Changes in neurotransmitter levels in the striatum and hippocampus following chronic administration of CP 55,940. Program No. 722.7. Presented at the 36th Annual Meeting of the Society for Neuroscience. *Abstract Viewer and Itinerary Planner.* Washington, DC: Society for Neuroscience, 2006. Online.

Vetreno, R. P., Malone, S. A., & Jackson, P. A. (October, 2006). Long-term effects on emotionality, learning, and memory following chronic administration of a cannabinoid agonist to adolescent male and female rats. Program No. 462.24. Presented at the 36th Annual Meeting of the Society for Neuroscience. *Abstract Viewer and Itinerary Planner.* Washington, DC: Society for Neuroscience, 2006. Online.

Thomas, T. M., & Jackson, P. A. (May, 2006). What Mozart effect? Contradictory findings of spatial performance in rats. Presented at the 18th Annual Convention of the Association for Psychological Science (APS) in New York City. Program No. V-017.

Vetreno, R. P., & Jackson, P. A. (November, 2005). Long-term effects of sodium pentobarbital anesthesia in rats. Program No. 653.17. Presented at the 35th Annual Meeting of the Society for Neuroscience. *Abstract Viewer and Itinerary Planner*. Washington, DC: Society for Neuroscience, 2005. Online.

Swander, J. A., & Jackson, P. A. (October, 2004). Effects of prenatal emotional stress on physical and behavioral development in Long-Evans rats. Presented at the 34th Annual Meeting of the Society for Neuroscience. Program No. 206.6. *2004 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2004. Online.

Jackson, P. A., Kesner, R. P., & Larsen, K. (Nov, 2002). Exploratory object-context recognition in hippocampal and parietal-cortex lesioned rats. Presented at the 32nd Annual Meeting of the Society for Neuroscience. Program No. 585.7. *2002 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience, 2002. Online.

Jackson, P. A. (2001). Role of the vibrissa in discrimination of 3-d objects. *Abstracts of the Psychonomic Society, 6*, 81.

Woodruff, K., & Jackson, P. (1998). Location strategies used by hippocampal lesioned rats in a dry-land maze. *Society for Neuroscience Abstracts, 24*, 1685.

Hovis, S. L., King, J. S., Pribram, K. H., Shan, P., & Jackson-Smith, P. (1997). Cortical representations of texture and orientation in the barrel cortex of rats. *Society for Neuroscience Abstracts, 23*, 2344.

Jackson-Smith, P., Kesner, R. P., & Amann, K. (1994). Effects of hippocampal and medial prefrontal lesions on discrimination of duration in rats. *Society for Neuroscience Abstracts, 20*, 1210.

Fremouw, T., Jackson-Smith, P., Shimp, C. P., & Kesner, R. P. (1993). Effect of hippocampal lesions on place learning in pigeons. *Society for Neuroscience*

*Abstracts, 19*, 1448.

Jackson-Smith, P., Chiba, A. A., & Kesner, R. P. (1993). Continuous recognition memory for 3-dimensional objects in rats with inferotemporal cortex lesions. *Society for Neuroscience Abstracts, 19*, 359.

Jackson-Smith, P. & Kesner, R. P. (August, 1993). Effects (of Ibogaine) on sensory-motor function and learning in rats. Invited paper presented to the Food and Drug Administration/Drug Abuse Advisory Committee. Silver Spring, MD.

Fremouw, T., Jackson-Smith, P., Shimp, C. P., & Kesner, R. P. (1992). Effects of hippocampal lesions on visual spatial attention in pigeons. *Society* *for Neuroscience Abstracts, 18*, 1425.

Dakis, M., Martinez, J. S., Kesner, R. P., & Jackson-Smith, P. (1992). Effects of phencyclidine and naloxone on learning of a spatial navigation task and performance of a spatial delayed non-matching to sample task. *Society for Neuroscience Abstracts, 18*, 1220.

Ravindranathan, A., Jackson-Smith, P., & Kesner, R. P. (1992). Effects of perirhinal cortex and medial extrastriate visual cortex lesions on memory associated with an object continuous recognition task. *Society for Neuroscience Abstracts, 18*, 1058.

Jackson-Smith, P., Kesner, R. P., & Chiba, A. A. (1991). Continuous recognition of 3-dimensional objects in rats with hippocampal and medial prefrontal cortex lesions. *Society for Neuroscience Abstracts, 17*, 131.

Chiba, A. A., Jackson-Smith, P., & Kesner, R. P. (1991). A double dissociation between implicit and explicit spatial memory following hippocampal and parietal cortex lesions. *Society for Neuroscience Abstracts, 17*, 131.

Jackson-Smith, P., & Kesner, R. P. (1990). Continuous recognition memory performance as a function of hippocampal, parietal and medial prefrontal cortex lesions. *Society for Neuroscience Abstracts, 16*, 605.

Jackson-Smith, P., & Kesner, R. P. (1989). Does the hippocampus play a role in mediating spatial and temporal configurations? *Society for Neuroscience Abstracts, 15*, 608.

Zentall, T. R., Jackson-Smith, P., Steirn, J. N., & Urcuioli, P. J. (1988). Many-to-one mapping of conditional discriminations results in common sample coding. *Bulletin of the Psychonomic Society, 26*, 508.

Zentall, T. R., Steirn, J. N., & Jackson-Smith, P. (1987). Spatial learning in the pigeon: An operant analog of the radial-arm maze. *Bulletin of the Psychonomic Society, 25*, 341.

Zentall, T. R., Urcuioli, P. J., Jagielo, J. A., & Jackson-Smith, P. (1986). Prospective memory in pigeons' performance of a delayed conditional discrimination. *Bulletin of the Psychonomic Society, 24*, 348.

Jagielo, J. A., Nonneman, A. J., Isaac, W. L., Jackson-Smith, P. A., & Zentall, T. R. (1986). The role of the hippocampus in learning and memory. *Society for Neuroscience Abstracts, 12*, 746.

Zentall, T. R., Jackson-Smith, P., & Jagielo, J. A. (1984). Categorical hue and shape coding by pigeons. *Bulletin of the Psychonomic Society, 22*, 267.

Jackson-Smith, P., & Risner, M. E. (1984). Discriminative stimulus properties and schedule effects of fencamfamine in rats. *Federation Proceedings, 43*, 573.

Spivey, J. E., & Jackson-Smith, P. (1982). Sequential effects in Pavlovian conditioning. *Bulletin of the Psychonomic Society, 20*, 157.