

VITA

**Duane M. Jackson**

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**EDUCATION**

- Ph.D., 1990 Comparative Psychology/Behavior-Genetics, (minor concentrations in Zoology, Experimental Psychology, and Entomology). University of Illinois at Urbana-Champaign. **Dissertation:** Behavior-genetic analysis of conditioning and retention in Phormia regina (blow flies): A search for relationships between learning and memory. Advisor: Dr. Jerry Hirsch
- M.A., 1976 Biological Psychology, University of Illinois at Urbana-Champaign. **Thesis:** Individual learning (classical conditioning) stability in the blow fly (Phormia regina).
- B.A., 1974 Psychology, Morehouse College, Atlanta, Georgia. Honors Projects: Reversibility of imprinting in mallard ducks as a function of time spent with humans. Attention in the praying mantis.

**SHORT COURSES**

Current Topics in Genomics Short Course. July 31-August 5, 2005, National Institute of Health National Human Genome Research Institute, Bethesda, MD.

Chemical Communication Among Animals. NSF Chautauqua-Type Short Courses for College Teachers, April, 1983 University of Georgia, Athens GA

**WORK EXPERIENCE**

- Aug. 1987 **Professor of Psychology**, Morehouse  
Present College, Atlanta, Georgia. Teach courses in Animal Behavior, Learning and Memory, Introduction and Advanced Statistics, and General Psychology as a Natural Science.

Mar. 2008- **Chair of Department of Psychology**  
June 2013 Morehouse College, Atlanta Georgia

June 1993- **Curator of Invertebrates/Research Scientist**, Zoo  
2003 Atlanta, Atlanta, Georgia. Develop a permanent live  
insect exhibit, provide educational information on  
insects, enhance existing temporary insect exhibits,  
establish research program dealing with insects.

Aug. 1994 - **Chair of Department of Psychology**  
June 1995 Morehouse College, Atlanta Georgia

Sept. 1992 - **Acting Chair of Department of Psychology**  
July 1994 Morehouse College, Atlanta, Georgia.

Summers of **Visiting Scientist**. Zoo Atlanta, Atlanta, Georgia.  
1988-1992 Gathering data on animal and human behavior  
developed a research program on visitor behavior  
and collaborated on research papers with zoo staff.  
Also working with Department of Education,  
contributed in the development of curriculum and  
activities in the area of animal behavior and  
conservation.

Oct. 2006 - **Research Coordinator**, Morehouse McNair Program. Work  
Present with research mentors and teach monthly research  
symposium for McNair scholars.

Summers of **Curriculum Coordinator or Math/Science Upward**  
1992-98 **Bound Program**, Morehouse College, Atlanta GA.  
Responsibilities included identification and  
supervision of tutor/counselors and instructors,  
curriculum development, and coordination of on and  
off campus research sites and projects.

Summer of **Director of Math/Science Upward Bound Program**,  
1991 Morehouse College, Atlanta GA. Responsibilities  
include coordination of the program, identification  
of tutor/counselors and instructors, curriculum  
development, designing research projects for  
students, and the development of modules in math/  
science to participating Upward Bound programs.

Aug. 1981- **Assistant Professor of Psychology**, Clark College,  
May, 1987 Atlanta, Georgia. Taught courses in Animal  
Behavior, Experimental Psychology, Statistics &  
General Psychology.

June 1981- **Instructor.** University of Illinois, Urbana  
Aug. 1981 Champaign. Taught course in General Psychology.

Aug. 1980- **Coordinator.** University of Illinois, Urbana May,  
1981 Champaign. Responsibilities included direct supervision of 26 teaching assistants and assisted professor for 50 sections of General Psychology. In conjunction with professor, wrote exams, conducted weekly meetings for new teaching assistants for the purpose of introducing material to be covered in class and developing teaching skills.

Jan. 1976- **Teaching Assistant.** University of Illinois, Urbana  
May, 1980 Champaign. Assisted instructors with the following courses: General Psychology, Experimental Psychology, Physiological Psychology, Behavior-Genetic Analysis, Comparative Psychology and Introduction to Quantitative Methods.

#### CONSULTANT

2004-2011 **Center for Behavioral Neuroscience Workshop for Teachers:** Worked with teachers K-12, showing them how to use insect to teach science and demonstrate Scientific method provided resource lists brought live insects and did demonstrations, held annual in June at Zoo Atlanta

2001 **Center for Puppetry Arts** (Atlanta) served as technical advisor for the performance of "The Adventures of Mighty Bug". The characters in this play were insects and my job was to read the script and watch the performance to make sure that is was scientifically accurate.

1999 **Beecher Hills Elementary School** (Atlanta Public School), Conducted all day works shop for teachers grades K-5 on teaching science using the scientific method and interfacing mathematics with science.

1999 **Stockbridge Elementary School** (Henry County Public School), Conducted three-hour workshop with second grade students and teachers on using insect behavior and body parts to classify insects.

- 1995-1996 **Georgia Public Television**, served as member of the Zoo Q Advisor Council, Zoo-Q was a children's quiz show that dealt with animals, plants and conservation topics.
- 1991 **Centers for Disease Control**, Statistical consultant for study on the diagnosis and management of acute respiratory infections by caretakers of children under the age of five in Lesotho.

### RESEARCH INTEREST

Animal Behavior: Special interest aggression, sexual behavior, communication and predator x prey interaction in insects. Also interested in task allocation and swarm intelligence in termites and ants. I also study human and nonhuman behavior in zoo settings.

### PUBLICATIONS

Onifade, E., **Jackson D. M.**, Chang, T. R., Allen C., & Thorne, J., (2011). Recall and the serial position effect: The role of primacy and recency on accounting Students' performance. *Academy of Educational Leadership Journal* Vol. 15, 65-87.

Jackson, D. M., (2004) Strategies for teaching, "feared" courses to African American college students. In *Instructing and Mentoring African American College Students*. L. Gallien & M. Peterson (Eds.), New York: Allyn & Bacon Publishers.

Jackson, D. M., (1999). Motivations that drive prejudice and discrimination: Is the scientific community really objective? Adams, J.Q. & Welsch, J. (Eds.), *Cultural Diversity: Curriculum, Classroom, & Climate* 103-110. Also in Elizondo, F.J. (Producer), *Multicultural Prism: Diversity in the Curriculum* CD-ROM, (1999). The Multicultural Resource Development and Advising Center, Western Illinois University. (A revised version of a 1995 paper by the same title).

Jackson, D. M., (1998). Factors influencing the stopping power of exhibits and signs. *American Zoo and Aquarium Association Annual Conference Proceedings* 1998 201-204.

Jackson, D. M., (1998). Trying to get zebra longwings and julia butterflies in the same exhibit to just get along. *Invertebrates in Captivity Conference 1998 Sonoran Arthropod Studies Institute Conference Proceedings*, 6-8.

Jackson, D. M., (1995). Motivations that drive prejudice and discrimination: Is the scientific community really objective? Adams, J.Q. & Welsch, J. (Eds.) *Multicultural Education: Strategies for Implementation in Colleges and Universities*. Vol. 4, 139-145.

Jackson, D. M. & Franks, P. (Eds) *Research Journal of the Morehouse College Summer Southeastern Regional Math/Science Upward Bound Program Vol. 1., 1994, (Year of publication 1995)*.

Jackson, D. M., (1994). Zoos -- An undergraduate research experience. *Council on Undergraduate Research Quarterly*. Vol. 4, 188-189.

Jackson, D. M., (1994). Animal activity and presence of docent interaction at Zoo Atlanta. *Visitor Behavior* Vol. 9 No. 1, 16.

Jackson, D.M., Ogden, J.J., Maple, T.L. (1989). Making visual contact at the gorilla interpretive center: A study of visitor traffic flow and gorilla visibility. In Bitgood, B., Rope, Jr., T., and Benefield, A. (Eds.), *Visitor studies: Theory, Research, and Practice*. Vol. 2, 225-237.

Ogden, J.J., Finlay, T.W., **Jackson, D.** & Maple, T.L. (1989). Gorillas of Cameroon: A post-occupancy evaluation. In, *American Association of Zoological Parks and Aquarium 1989 Regional Conference Proceedings*.

Ford, R., **Jackson, D.**, Tetrault, L., Torres, J., Assanah, P., Harper, J., Leung, M., & Staffano, G. (1986). A behavioral role for enkephalins in regulating locomotor activity in the insect *Leucophaea Maderae*: evidence for high affinity kappa-like opioid binding sites. *Journal of Comparative Biochemistry and Physiology*. 85C, 61-66.

Jackson, D. & Hirsch, J. (1981). Genetics of behavior. In D. McFarland (Ed.), *The Oxford Companion to Animal Behavior*. Oxford: The Oxford University Press, 226-236.

#### **PUBLICATIONS IN POPULAR PRESS**

Forschler, B., Jones, S., Kard, B., Baumann, G. Henderson, G., Suiter, D., Baker, P., Howell, H., Gold, R. & **Jackson, D.** (2007, March) Subterranean termite management still an ongoing process. *Pest Control* Vol. 75, No. 3 p. 88-95.

Kard, B., Forschler, B., Suiter, D., **Jackson, D.**, G.

Henderson, G., Howell, H., Baker, P., Gold, R. Jones, S., & Baumann, (2002, February). Termite Management is an Ongoing Process. *Pest Control* Vol. 70, No. 2 p. 36-40.

Forschler, B., Jones, S., Kard, B., Baumann, G. Henderson, G., Suiter, D., Baker, P., Howell, H., Gold, R. & **Jackson, D.** (2002, April) Make a case for Moisture Management. *Pest Control* Vol. 70, No. 4 p.24.

Jackson, D. M. (2001). Insects: The Forgotten Majority. *ZooMagazine*, Vol. 15, No. 1, p.14.

Jackson, D.M. (2000). Starting the Diversification Process. *Communique*, December 2000, pp.4, 49.

Jackson, D. M. (2000) Insect Mythology. *ZooMagazine*, Vol. 13, No.1, p 17

Jackson, D. M. (1996). Did You Know? Where insects go in the winter. *Winsome Way Children's Magazine*, Vol. 11, No. 6, p 17

Jackson, D. M. (1996) Kenya Reality. *Peachtree*, Vol. 11, No. 6 18-21.

Jackson, D. M. & Plum, P. (1992). Going Buggy! *ZooMagazine*, Vol. 6 No. 2-5

#### **PUBLICATIONS BY UNDERGRADUATE STUDENTS**

Harris, S. & Jackson, D. (1996). Behavioral responses to signage in the Masai Mara at Zoo Atlanta. *Proceedings Tenth National Conference Undergraduate Research*, Vol. 1, 588-593.

Thompson, J. & Jackson, D. (1996) "Flower preference in insects." *Proceedings Tenth National Conference Undergraduate Research*, Vol.1, 678-682.

Tartt, A. & Jackson, D. (1995). Age and sexual experience are factors in female choice in milkweed bugs (*Oncopeltus fasciatus*). *Proceedings Ninth National Conference Undergraduate Research*, Vol.1, 459-463

#### **PAPERS IN PREPARATION**

Jackson, D. M. *All Ants do not Live in Holes*, (children's book, ages 4-7)

Jackson, D. M., Evidence for photonegative behavior in the worker caste of blind subterranean termites (*Reticulitermes sp.*)

Jackson, D. M., A review of the Charles Turner's work in insect behavior.

Jackson, D. M. & Smith T. "Symbolic usage of insects and Spiders in the Bible: knowledge of insect behavior in biblical times.

Jackson, D. M. *101 Facts on Insects and Their Kin*, (children's book, ages 8-12).

#### **PAPERS PRESENTED AT NATIONAL AND INTERNATIONAL CONFERENCES**

Jackson, Duane "Photonegative responses in blind subterranean termites (*Reticulitermes sp.*) presented at the Animal Behavior Society Annual Meeting, Boulder, Colorado, July 2013

Jackson, Duane "Factors influencing aggressive encounters between subterranean termites and fire ants", presented at the Animal Behavior Society Annual Meeting, Albuquerque, NM, June 2012.

Jackson, Duane "Charles Turner was the First African-American Animal Behaviorist", National Association of African American Studies 18<sup>th</sup> Annual Conference, Baton Rouge, LA, 2010.

Jackson, Duane M. & Chang, T. "Developing Peer Led Team Learning Modules for Psychology", Expanding Peer Led Team Learning (PLTL) in the Sciences and Mathematics, Atlanta GA, November 2009.

Jackson, Duane M. "Bridging Gaps: Animals and Cultural Diversity" Presented paper at the Conference on Humane Education- Empathy, Animals & Nature: Brain, Behavior & Beyond. Hosted by American Society for the Prevention of Cruelty to Animals (ASPCA) and the Green Chimneys Institute for the Advancement of Animal and Nature Based Therapy Activities, April 2007.

Onifade, E., Allen, C. & Jackson, D. "An Investigation of Serial Position Effect Theory On Accounting Students' Performance", presented at the American Accounting Association Annual Meeting, Honolulu, Hawaii, August 2003.

Jackson, D.M. "Who was Charles Turner" Present at the

Animal Behavior Society Annual Meeting, Bloomington, IN, July 2002.

Onifade, E., Allen, C. & Jackson, D. "Recency and Primacy Effects on Accounting Students' Learning. Presented at American Academy of Accounting and Finance Annual Meeting, New Orleans, LA December 2001.

Jackson, D., "Scientific and Folk Ideas About Heredity" Presented at the Information Conference on the Human Genome Project, Atlanta GA July 2001.

Jackson, D., "Charles Turner: The Forgotten Animal Behaviorist". Presented at the Animal Behavior Society Annual Meeting, Atlanta, GA August 2000.

Jackson, D., "Dung Beetles; Their Evolution and Dependence on Elephants." Presented at the Fourth International Elephant Research Symposium, Atlanta, GA June 1999.

Jackson, D. "Trying to Get Zebra Longwing and Julia Butterflies in the Same Exhibit to Just Get Along." Presented At the Invertebrates in captivity conference, Tucson, AR, August 1998.

Jackson, D. "Factors Influencing stopping Power and holding Power: Studying the Animals that Pay the Bills." Presented at the American Zoo and Aquarium Association Annual Conference, Tulsa, OK, September 1998.

Jackson, D. "Behavior Genetic Analysis and the African-American Community: Objective Science or Voodoo Genetics." Presented at the European Behavioral and Neural Genetics Society, Orleans, France September 97.

Jackson, D. "Zoos and HBCUs: A Unique Collaboration." Presented at the National HBCU Faculty Development Network, Memphis TN, October 96.

Jackson, D. "Behavior Genetic Analysis and its Contribution to Psychology: Objective Science or Voodoo Genetics." Presented at the Seventeenth Annual National Institute on the teaching of Psychology, St. Petersburg Beach, FL, January 1995.

Jackson, D. "Motivations that Drive Prejudice and Discrimination: Is the Scientific Community Really Objective? Presented at the Dealing with Differences Summer Institute, Western Illinois University, Macomb, IL, May 1994.



Jackson, D. M. "Undergraduate Statistics—Trying to Make it real." Presented at the Fourteenth Annual national Institute on the Teaching of Psychology, St. Petersburg Beach, Florida, January 1992.

Jackson, D. Ogden, J. & Maple, T., "Making visual contact at the Gorilla interpretive Center: A Study of the Visitor Traffic Flow and Gorilla Visibility." Presented at the Visitor Studies Conference, Dearborn, MI, May 1989.

Jackson, D., Burton, K. Valdez, N., "The Effect of Color on Choosing an Ovipositioning Site in Milkweed Bugs (*Oncopeltus fasciatus*)." Presented at the Animal Behavior Society Meeting, University of Montana, Missoula, Montana, August 1988.

Jackson, D., "Entomex 2001-Recording of Small Animal Activity: Invertebrates as Behavioral Models." Paper presented at Alcohol, Drug Abuse, and Mental Health Administration: Minority Access to Research Careers. Third Annual Colloquium, Washington, D. C., March 1986.

Jackson, D. & Rhines, D. "Increased Aggression Among Females Due to chirping in Males in the House Cricket (*Acheta domestica*)." Presented at the Animal Behavior Society Meeting, North Carolina State University, Raleigh NC, June 1985.

Jackson, D., "Conditioning and Retention as Studied in a Behavior-Genetic Analysis of the Blowfly (*Phormia regina*)". Presented at the Animal Behavior Society Meeting, University of Minnesota, Minneapolis, Minnesota, August 1982.

Jackson, D., "Stability in Learning (Classical Conditioning) in the Blowfly *Phormia regina*". Presented at the Animal Behavior Society Meeting, University of Colorado, Boulder, CO June 1976.

#### **INVITED PAPERS PRESENTED AT INSTITUTES OF HIGHER LEARNING**

Jackson, Duane "Insects in the Bible". Presented at the Chautauqua Institution, Chautauqua, NY, August 2012.

Jackson, Duane "Deceptive Signaling: Cheating in the Animal World." Presented at the Chautauqua Institution, Chautauqua, NY, August 2012.

Jackson, Duane "Subterranean termites, fire ants and aggression: The search for an aggressive measure at the colony

level." Presented at Evolution, Ecology & Behavior Brown Bag talk at Indiana University, February 2012.

Jackson, Duane M. "Ghosts in the experiment: The problem with confounding variables" Featured Speaker for Behavioral Research Advancements in Neuroscience (BRAIN), Closing Luncheon, Emory University, August 2010.

Jackson, Duane M. "Thinking outside of the room: The scientific renaissance of the 21<sup>st</sup> century." Featured Speaker for Behavioral Research Advancements in Neuroscience (BRAIN), Welcome Luncheon, Emory University, May 2008.

Jackson, Duane M. "Life styles of termites and ants on the African savanna and Amazon jungle." Special Guest Speaker for Center for Behavioral Neuroscience First Annual Research Colloquium, Zoo Atlanta April 25, 2007.

George, M., Williams, B., Jackson, D. "Special Issues Panel: Culturally Responsive Science Education." Presented at Best Practices in Science Education Conference Information Guide, Yerkes National Primate Center, Emory University, Atlanta GA October 2005

Jackson, D. "Aggression in Insects." Presented at Penn State, Department of Entomology, State College, Pennsylvania, April 2004.

Jackson, D. "Success in Graduate School and Beyond." Sponsored by Office of Graduate Educational Equity. Presented at Penn State University, State College, Pennsylvania, April 2004

Jackson, D. "Insect Wars." Presented at the Undergraduate/MS Seminar Series, Georgia State University, Atlanta, GA, November 2003.

Jackson, D. "Life Styles of Ants and Termites in the African Savannah the Amazon Jungle and South Georgia." Presented at the Colloquium Series, Gainesville College, Gainesville, GA, February 2002

Jackson, D. "Aggression in Ants, Butterflies and Termites." Presented at the Department of Psychology, Psi Chi speakers series, Fayetteville State University, Fayetteville, NC, November 2001.

Jackson, D., "Research in the Lab, Field and Zoo: Working in a Controlled Fantasy, Uncontrolled Reality and a Mixed Bag." Presented at Department of Biology Seminar, North Carolina Central University, Durham, NC, February, 2001.

Jackson, D. M. "Doing Research in a Three-Ring Circus: The Joy and Hardships of Doing Laboratory, Field and Zoo Research." Presented at the Undergraduate Research Seminar, University of Wisconsin, Whitewater, WI, September, 1999.

Jackson, D. M. "Life Styles of Ants, Termites and Butterflies in the African Savannah and the Rain Forest of Central and South America Presented at Department of Biology Seminar, University of Wisconsin, Whitewater, WI, September 1999.

Jackson, D. M. "Insects of Africa and Female X Female Aggression in House Crickets." Keynote Speaker at the North Carolina Fall Conference on Undergraduate Research, Fayetteville State University, Fayetteville, NC, November 1995.

Jackson, D. M. "Carver, Just, and Turner: Scientist Against the Odds." Presented at the Department of Biology and Hughes Programs in Biology Symposium, Emory University, Atlanta, GA February 1994.

#### **Talks Given to Institutions K -12**

Jackson, D. M. "Martin Luther King through the eyes of a teenager." This talk was given at the MLK, Jr. Assembly at Williston, Northampton School 6-12, Easthampton, MA January 2012.

Jackson, D. M. "Insect in the Bible" this talk was given at a General Assembly for the entire school at Heiskell Christian School k-8, Atlanta GA January 2011

#### **HONORS, AWARDS & GRANTS**

*Research Mentor of The Year*, September 29, 2011. Dr. John H. Hopps, Jr. Defense Research Scholars Program, Morehouse College.

*Academy of Educational Leadership Distinguished Research Award*, April 15, 2010. Awarded for paper - Recall and the Serial Position Effect: The Role of Primacy and Recency on Accounting Students' Performance.

*J.O. Peterson Education Award*. In recognition of contributions

as an outstanding educator and African American Zoo Curator. Progressive National Baptist Convention, Inc. Atlanta GA, August 2008.

Jackson, Duane M. P.I., Goodsman, Mike, Co-PI (Georgia Institute of Technology), Oi, Faith, Co-PI. (University of Florida) and Scharf, Mike, Co PI. (University of Florida), "Searching for the Genetic Basis of Aggression in Termites (*Reticulitermes sp*) and developing Techniques and Teaching Module for the Behavioral Sciences." Center for Behavioral Neurosciences, National Science Foundation Venture Grant," \$29,993.00, June 1, 2007 -June 1, 2009.

Martins, E, PI, Jackson, D. Co-PI, Hill, P., Kukuk, P, Co-PI, Tang-Martinez, Z., Co-PI, "Increasing diversity through undergraduate student participation in the Animal Behavior Society meetings." National Science Foundation #IOS-0735035, 2007-2009, \$33,780.

Grant funded through National Science Foundation (through the Undergraduate Mentoring in Environmental Biology program), PI E. Martins, Co-PI's P. Hill & D. Jackson for 2002-2006, NSF #IBN-0205180, "Travel to Animal Behavior Society Meetings" Undergraduate Mentoring in Biology. This grant will be used for Diversity Travel Award for undergraduates to attend the Annual Meetings of the Animal Behavior Society Meetings and participate in the Charles H. Turner Poster Session held at meetings. Amount funded \$60,000.00

Grant funded through National Science Foundation under the Center for Behavioral Neurosciences, Venture Grant Co-PI with Don Edwards for June 1, 2003-June 1 2004 "Biogenic Amines and the Behavioral Biology of War Among Termites (*Reticulitermes sp.*" Amount funded \$30,000.00.

Grant funded through National Science Foundation under the Center for Behavioral Neurosciences, Venture Grant Co-PI with Don Edwards for January 1, 2002-December 31, 2003 "Aggression and Monoamines in Termites." Amount funded \$30,000.00.

Grant funded through the National Science Foundation under the Research Experience for Undergraduate Program, for the summer of 94. "Morehouse College - Zoo Atlanta undergraduate Research Program in Animal Behavior." Amount funded \$30,900.00. Renewed summers of 95-96, for \$44,000.00.

Smithsonian Institute Short Term Visitor Fellowship, August

93. This fellowship allowed me to study substrate communication in tortoise beetles (*Chrysomelidae*) at the Smithsonian Tropical Research Institute in Panama.

Frank Costin Award for Excellence. Awarded at the Fourteenth Annual Institute on the Teaching of Psychology, St. Petersburg Beach FL, January 1992. This award was for my poster presentation on "Undergraduate Statistics - Trying to make it Real."

Teacher of the year: selected by students (majors) in the Department of Psychology, Clark college (1981, 1982, 1983, 1984, 1985 & 1986).

Ranked "Excellent" by students in Quantitative Methods Course, based on Instructor and Course Evaluation System, University of Illinois (Spring, 1980)

Awarded fellowship from the National Fellowship Fund, Ford Foundation, 1979-1980.

Awarded fellowship from the Biopsychology Traineeship Program, National Institute of Public Health, 1975-1979.

Awarded University of Illinois Graduate fellowship, 1974-1975.

Paul Mussen Award in Psychology, (given to top graduating psychology major), Morehouse College, 1974.

Army Commendation Medal, Vietnam, 1969.

### **PROFESSIONAL AFFILIATIONS**

Animal Behavior Society  
International Union for the Study of Social Insects, North American Section

### **REVIEWER**

Have served as a reviewer for manuscripts submitted to Journal Animal Behavior, and Anthrozoös and grant proposals for the National Science Foundation.

### **COLLEGE SERVICE**

2010-Present Task Force and Advisement

2008-Present Teaching and Technology Committee

2009-Present Teacher Preparation Oversight Committee

2004-2008 Coordinator for Junior Faculty in the Division of Science & Mathematics

2007 Member Ad hoc 2007 Committee, Morehouse College Strategic Planning, Finances subcommittee.

2002-2003 Member of Library Committee

2001-2007 Chair of the Subcommittee for Student Affairs in the Division of Science & Mathematics, Morehouse College

1997-2003 Member of Faculty Counsel, Morehouse College

1995-1998 Chair of Faculty Seminar Series, Morehouse College.

1987-1995 Member of the Committee on Student Organizations, Morehouse College.

1988-1992 Member of the Committee on Assessment, Morehouse College.

1991 Member of the Mentorship Task Force, Morehouse College.

1985-1986 Member of the Faculty Evaluation Committee, Clark College.

1984-1986 Member of the Atlanta University Center Institutional Animal Care and use Committee.

1983-1986 Library Committee (Chairman), Co-Project Director for grant on Bibliographic Instruction, funded by Lily Foundation Clark College.

**PUBLIC SERVICE**

2008 Served as Grand Awards Judge (Behavioral & Social Sciences section) for the Intel International Science and Engineering Fair, Atlanta GA, May 2008.

2006-2009 Chair Undergraduate Education Committee for the Center for Behavioral Neuroscience (CBN)

2004-Present Member of Zoo Atlanta Board of Directors, Chair

Education Subcommittee(2007-Present), member of Executive Committee(2007-Present), Vice Chair on Board (2010-Present)

2001-2008 Chair of Diversity Committee, Animal Behavior Society

2000 Co-Hosted the Animal Behavior Society Annual Meeting, at Morehouse College & Zoo Atlanta August 5-9, 2000.

1999-2002 Member of American Zoo and Aquarium Association Task Force on Workplace Diversity

1998-2002 Secretary for the American Zoo and Aquarium Association Terrestrial Invertebrate Taxon Advisory Group

1998-2001 Visiting Scientist for Chehaw Wildlife Park, Albany GA

1994-2000 Through the Distance Learning Program (GSAMS) at Zoo Atlanta gave over twenty talks, in the areas of insect behavior and African-Americans in science, via TV, to elementary, junior high, high school and college students.

1996 Leader for an Educational Safari in Kenya.

1993-1999 Member of the Board of Governors for the National Conference on Undergraduate Research.

1994-1997 Member of the Council on Undergraduate Research, Councilor in the Division of Psychology.

1996-1999 National Editorial Board for Proceedings of the National Conference on Undergraduate Research (NCUR) .

1994 Served on the McIntosh Commission. The purpose of this commission was to reexamine the NCAA eligibility requirements for student athletes.

1991-1993 Member of Technical Advisory Board, Zoo Atlanta.

1984-1989            Member of the Conservation and Research Committee,  
Zoo Atlanta.

### **MEDIA PRESENTATIONS**

Appeared on "The straight Dope," this show attempts to explain scientific and technical, principles, concepts, and applications to the nonprofessional. I discussed roach behavior. This program aired nationally, September 29, 1996 on the Arts & entertainment TV network.

Appeared nationally on CNN TV network, the summer of 94, to talk about black widow spiders.

Appeared on National Geographic Special on animal behavior to discuss my work on visitor behavior at zoo Atlanta. This was aired in Atlanta and surrounding areas on PBS-TV, January 1989.

Appeared on an animal documentary "Kingdom in Crisis." This aired on the local ABC affiliate in Atlanta, June 1989. I accompanied Atlanta Zoo personnel to East Africa to study the plight of the African elephant and the black rhinoceros. In the documentary, I talked about various insects that were found in different habitats.

Appeared in Black Enterprise in an article "They Pay You to do What?" June 2004, 242-248. This article dealt with four African Americans that had unusual jobs.

Appeared in Ebony magazine in an article "Tamers of the Wild", June 1994, 78-82. This article dealt with the handful of African-Americans that hold the position of curators in the United States zoo and aquariums.

### **Graduate Students and Post Doctorate Students**

**Teaching Mentor**, Fellowship in Research & Science Teaching (**FIRST**) post doctoral program, Dr. Matt Campbell (mentee, September 2010-present) guidance on the teaching course in Animal Behavior (lecture & lab).

Dr. Sarah Brosnan (mentee, September 2005-May 2007), guidance on the teaching course in Learning & Memory, (lecture & lab) and Animal Behavior (lecture & lab).

Dr. Jessica McDermott Sales (Mentee, September 2005- May 2006), guidance on the teaching course in Learning & Memory, (lecture & lab).



Dr. Kai McCormick (mentee, September 2004-May 2005), guidance on the teaching course in Learning & Memory, (lecture & lab), Animal Behavior (lecture & lab), and Statistics II.

**Thesis Committee Member**, Whitman, Jefferson G.

"Observations of behaviors in the workers caste of *Reticulitermes flavipes* (Kollar) Isoptera: Rhinotermitidae)." Master's degree awarded December 2006, University of Georgia, Athens Georgia

**PAPERS PRESENTED BY UNDERGRADUATE RESEARCH ASSISTANTS**

Gray, Angel, & Traore, Abdoulaye "Behavioral interactions between fire ants that are restrained or free moving" presented at the Animal Behavior Society Annual Meeting, Boulder, Colorado, July 2013. **Angel was awarded a travel award to participate in the Charles Turner Program at the Animal Behavior Society meeting.**

Taylor, Tariq, Donald, Arishaun, Jackson, Duane & Mendenhall, Juana "Investigating termite behavior and digestion of cellulose based thermo-responsive nanofibers to determine cellulase activity" Paper presented at 2012 Emerging Researchers National (ERN) Conference in STEM in Atlanta, GA February 2012. **Taylor won a Second Place Award at this conference.**

Culp, Anthony & Azziz, Thameena, "Embracing the darkness" Paper presented at 2012 Emerging Researchers National (ERN) Conference in STEM in Atlanta, GA February 2012. **Culp won a First Place Award at this conference.**

Taylor, Tariq, "Investigating termite behavior and digestion of cellulose based thermo-responsive nanofibers to determine cellulase activity" Paper presented at the Annual Biomedical Research Conference for Minority Research Conference for Minority Students (ABRCMS) in St. Louis, Missouri November 2011

Cortes, Andres, Jackson, Duane M. Caliman, Alisha D. "The search for the genetic basis of aggression in termites *Reticulitermes sp.*" Paper presented at the Annual Biomedical Research Conference for Minority Research Conference for Minority Students (ABRCMS) in Orlando, Florida November 2008.

**Cortes won an award for outstanding research at this conference.**

Morris, Adrienne, Jackson, Duane M. "Dirty pheromones and termite contact and aggression." Paper presented at the 21<sup>st</sup> National Conference on Undergraduate Research (NCUR) at Dominican University San Rafael, California April 2007.

Snow, Taurean, Jackson, Duane M. "The role of contact pheromones in attraction and elusion behaviors in *Reticulitermes sp.* subterranean termites and in *Solenopsis sp.* fire ants." Paper presented at the 21<sup>st</sup> National Conference on Undergraduate Research (NCUR) at Dominican University San Rafael, California April 2007.

Williams, Robert, Jackson, Duane M. "Dirty Pheromones in *Reticulitermes sp.* as a function of population density." Paper presented at the 21<sup>st</sup> National Conference on Undergraduate Research (NCUR) at Dominican University San Rafael, California April 2007.

Snow, Taurean, Jackson, Duane M. "The role of contact pheromones in attraction and elusion behaviors in *Reticulitermes sp.* subterranean termites and in *Solenopsis sp.* fire ants." Paper presented at the Annual Biomedical Research Conference for Minority Research Conference for Minority Students (ABRCMS) in Anaheim, California in November of 2006.  
**Snow won an award for outstanding research at this conference.**

Williams, Robert, Jackson, Duane M. "Dirty Pheromones in *Reticulitermes sp.* as a function of population density." Paper presented at the Annual Biomedical Research Conference for Minority Research Conference for Minority Students (ABRCMS) in Anaheim, California in November of 2006.

Williams, R. D., "Changes in ambulatory behavior of *Reticulitermes* as a function of population density." Presented at the Annual Biomedical Research Conference for Minority Students, Atlanta, GA, November 2005

Jamison, A. "Termites at war: Does size make a difference." Presented at the Charles Turner Poster Session, Annual meeting of the Animal Behavior Society Meeting. Boise State University, Idaho, July 2003.

Bonvillain, A. "Can kin recognition explain different levels of aggression between colonies of termites (*Reticulitermes sp.*) Presented at the Charles Turner Poster Session, Annual

meeting of the Animal Behavior Society Meeting. Boise State University, Idaho, July 2003.

Pambi, M. & Kimbrough, "Group Size as a predictor in intraspecific encounters in termites (*Reticulitermes sp.*)" Presented at the First Annual Undergraduate Psychology Research Conference Department of Psychology. Georgia State University, Atlanta, GA, April 26, 2002.

Bonvillain, A. & Hammond, A. "The effect of food deprivation on intraspecific aggression in termites (*Reticulitermes sp.*)" Presented at the First Annual Undergraduate Psychology Research Conference Department of Psychology. Georgia State University, Atlanta, GA, April 26, 2002.

Wyche, S. & Hall, J. "Aggression as an effect of varying population densities of termites (*Reticulitermes sp.*)" Presented at the First Annual Undergraduate Psychology Research Conference Department of Psychology. Georgia State University, Atlanta, GA, April 26, 2002.

Archibald, J. "Negative phototaxis in termites (*Reticulitermes sp.*)" Presented at the Leadership Alliance Symposium 2001, Stone Mountain GA, July 2001

Archibald, J. & Cureton, C. "Behavioral responses to light in termites." Presented at the Ninth Annual IMHOTEP Student Research Conference, Florida A&M University, Tallahassee, FL, and April 2001.

Pambi, M. & Kimbrough, F., "Aggression as a function of distance, agitation and food deprivation in termites." Presented at the Ninth Annual IMHOTEP Student Research Conference, Florida A&M University, Tallahassee, FL, April 2001.

Powell, C. "Foraging patterns of Lepidoptera: A comparative study butterflies and skippers." Presented at the Twelfth National Conference on Undergraduate Research, Salisbury State University, Salisbury, MA, April 1998.

Perkins, T. "Human visitor behavior: Examining the utilization of signs at the zoo." Presented at the Eleventh National Conference on Undergraduate Research, Austin TX, April 1997.

Brown, A. "Assessing the effectiveness of conservation education through the use of shows and signage at Zoo

Atlanta." Presented at the Eleventh National Conference on Undergraduate Research, Austin TX, April 1997.

Harris, S. & Jackson, D. "Behavioral response to signage in the Masai-Mara at Zoo Atlanta." Presented at the Tenth National Conference on Undergraduate Research, Asheville, NC, April 1996.

Thompson, J. & Jackson, D. "Flower preference in insects at Zoo Atlanta." Presented at the Tenth National Conference on Undergraduate Research, Asheville, NC, April 1996,

Davis, C. & Jackson, D. "aspects of spatial utilization and interactions among small African primates at Zoo Atlanta." Presented at the Ninth National Conference on Undergraduate Research, Schenectady, NY, April 1995.

Nucklos, T. & Jackson, D. "Unobtrusive Visitor behavior in a zoo Setting." Presented at the Ninth National Conference on Undergraduate Research, Schenectady, NY, April 1995.

Thompson, E.J. & Jackson, D. M. "Geotaxis and specificity in *Drosophila*." Presented at the Eight National Conference on Undergraduate Research, Kalamazoo, March 1994.

Tartt, A. & Jackson, D. "Sexual competition and mate selection in milkweed bugs." Presented at the Eight National Conference on Undergraduate Research, Kalamazoo, March 1994.

Weaver, K. "Maze learning, discrimination and memory in death head cockroaches (*Blaberus craniifer*)" Presented at the Seventh National conference on Undergraduate Research, Salt Lake City, Utah, March 1993.

Allen, C. & Jackson, D. "The effects of population density and food deprivation on aggression in female crickets (*Acheta domesticus*)."

Presented at the Sixth National Conference on Undergraduate Research, Minneapolis, MN, March 1992.

Ghosten, S. & Jackson, D. "Role of sexual experience and the sound of male chirping on aggression and locomotor activity in female house crickets (*Acheta domesticus*)."

Presented at the Sixth National Conference on Undergraduate Research, Minneapolis, MN, March 1992.

Green, Leah & Jackson, D. "The effects of food deprivation on habituation among flesh flies (*Sarcophaga bullatta*)."

Presented at the Sixth National Conference on Undergraduate Research, Minneapolis, MN, March 1992.

Green, Lisa & Jackson, D. "Color as a factor in habituation among flesh flies (*Sarcophaga bullatta*)."  
Presented at the Sixth National Conference on Undergraduate Research, Minneapolis, MN, March 1992.

Rivers, P. "The effects of alcohol and caffeine on locomotor activity in the flesh fly (*Sarcophaga bullatta*)."  
Presented at the Sixth National Conference on Undergraduate Research, Minneapolis, MN, March 1992.

Rivers, P. "The effect of bi-directional selection of locomotor activity in the flesh fly (*Sarcophaga bullatta*)."  
Presented at the Fifth National Conference on Undergraduate Research, Pasadena, CA April 1991.

Knight, C. & Ghosten, S. "Consistency among males and females in regard to skin and facial features."  
Presented at the Fifth National Conference on Undergraduate Research, Pasadena, CA April 1991.

French, C. "Behavior genetic analysis of locomotor activity in the large milkweed (*Oncopeltus fasciatus*)."  
Presented at the Third National conference on Undergraduate Research, San Antonio, TX, April 1989.

Burton, K. & Valdez, N. "The effect of color on choosing an oviposition site in *Oncopeltus fasciatus*: a behavior-genetic analysis."  
Presented at the second National Conference on Research, Ashville, NC, April 1988.

Mole, E.M., Eves, A. & Jackson D.M. "Attitudes of black male and female undergraduate students as they pertain to appearance. Presented at the Southeastern Psychological Association Annual Meeting, New Orleans, LA April 1988.

Valdez, N & Burton, K. "The effect of color on choosing an oviposition site in *Oncopeltus fasciatus*: a behavior-genetic analysis."  
Presented at the Southeastern Psychological Association Annual Meeting, New Orleans, LA April 1988.

Cunningham, L. "Bidirectional selective breeding for high and low activity in *Oncopeltus fasciatus*."  
Presented at the ADAMHA-Minority Access to Research Careers Colloquium, San Jose, CA, April 1985.

Nesmith, K. "Learning in *Blaberus craniifer*." Presented at the ADAMHA-Minority Access to Research Careers Colloquium, San Jose, CA, April 1985.

Rhines, D., "Increased antagonistic encounters among female house crickets (*Acheta domesticus*)." Presented at the Southeastern Psychological Association Annual Meeting, New Orleans LA April 1984.

Hammond, C. "The effects of crowding and light intensity on behavior patterns in the death head cockroach (*Blaberus craniifer*)." Presented at the Carolina Psychology Conference, Raleigh, NC April 1984.

Mickel, A. "Correlation between free recall and paired associations with high and low frequency words." Presented at the Carolina Psychology Conference, Raleigh, NC April 1984.

Moore, F. "College majors and the sexes: The effect of digital stimuli on short term memory". Presented at the Carolina Psychology Conference, Raleigh, NC April 1984.

Peck, J. "Religious attitudes among college students at predominately Black colleges". Presented at the Carolina Psychology Conference, Raleigh, NC April 1984.

Allen, R. "The sex attractant of *Periplaneta americana*." Presented at the Carolina Psychology Conference, Raleigh, NC April 1983.

Malone, T. "The effects of selective breeding on activity in the milkweed bug (*Oncopeltus fasciatus*)." Presented at the Carolina Psychology Conference, Raleigh, NC April 1983.

Thompson, S. "Learning in a straight alley maze and a study of the Crespi Effect in death head cockroaches (*Blaberus craniifer*)." Presented at the Carolina Psychology Conference, Raleigh, NC April 1983.

Scott, D. "Social behavior in a population of bess beetles (*Popillius disjunctus*)." Presented at the ADAMHA-Minority Access to Research Careers Colloquium, Washington D.C. April 1983.

Scott, P "Circadian rhythm in the milkweed bug (*Oncopeltus fasciatus*)." Presented at the Southeastern Psychological

Association Annual Meeting, New Orleans LA April 1982.

**High School and Middle School Students (pipeline):**

**Teacher**, Project Identity, Morehouse College. (2006-2007,2010)  
Developed and taught course on "**Research with insects**" to  
middle school and high school males.

**Curriculum Advisor**, (2007) Advisor for enhancing the research  
component for the summer Morehouse Math/Science Upward Bound  
program.

**Visiting Middle School Science Teacher (Volunteer)**, Taught general  
science 4 middle school classes once a month during the 2004-2005  
school year at Young middle school, Atlanta, GA.