

Curriculum Vita

Personal Data

Name: **Aileen Marie Bailey**

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Education

Ph.D., 1999; Biopsychology.
The University of Georgia, Athens, Georgia 30602-3013.

M.S., 1996; Biopsychology.
The University of Georgia, Athens, Georgia 30602-3013.

B. A., 1994; Psychology, Mathematics.
Beloit College, Beloit, Wisconsin 53511.
Departmental Honors in Psychology
Graduated Magna Cum Laude

Faculty Positions

2011 – present	Chair, Psychology Department
2005 – present	Associate Professor, Department of Psychology, St. Mary's College of Maryland, St. Mary's City, Maryland
2010 – 2011	Neuroscience Minor Coordinator, St. Mary's College of Maryland, St. Mary's City, Maryland
2006 – 2008	Neuroscience Minor Coordinator, St. Mary's College of Maryland, St. Mary's City, Maryland
2003 – 2005	Neuroscience Minor Coordinator, St. Mary's College of Maryland, St. Mary's City, Maryland
1999 – 2005	Assistant Professor of Psychology, St. Mary's College of Maryland, St. Mary's City, Maryland

Scholarly Honors

2007 Member; Nu Rho Psi – Undergraduate Honor Society; Charter Member; Faculty advisor at St. Mary's College of Maryland

2002 Member; Project Kaleidoscope – nominated by St. Mary's College of Maryland and accepted into the Faculty for the 21st Century. The primary goal of Project Kaleidoscope is to strengthen undergraduate learning environments in science, technology, engineering and mathematics.

2002 – Appointed Editor of Psychology and Behavioral Neuroscience for the *American Journal of Undergraduate Research*.

2001 Recipient, Council on Undergraduate Research Fellowship Award – one of 16 fellowships awarded nationally to mentors of undergraduate research programs. Fellowship award supported a research project on the effects of prefrontal cortex lesions on learning set formation. (Selection made by a review board at the Council on Undergraduate Research).

1999 Recipient, Graduate Research Assistantship; University of Georgia

1999 Recipient, A. S. Edwards Award - awarded to the graduate student who best represents excellence in scholarship, meritorious conduct, and service to the Department of Psychology. (Voted by faculty and graduate students in the psychology department at the University of Georgia).

1999 Recipient, Charles L. Darby Award - awarded to the outstanding graduate teaching assistant in the Department of Psychology. (Selected by the Undergraduate Studies Committee, University of Georgia)

1999 Recipient, Herbert Zimmer Award - awarded by the Biopsychology Program (University of Georgia) in recognition of outstanding research accomplishments and potential for a research career in psychology.

1998 -1999 Recipient, APF/COGDOP Graduate Research Scholarship in Psychology - one of nine individuals awarded a \$1000 scholarship to support the doctoral research project. Given by the American Psychological Foundation and Council of Graduate Departments of Psychology.

1996 – 1998 Recipient, Graduate Student Teaching Assistantship; University of Georgia

1998 Nominated by the Psychology Department for the Graduate School's Excellence in Teaching Award for graduate students. (Only one nomination per department)

1998 Recipient, Outstanding Teaching Assistant Award - awarded to the top 10% of graduate instructors at the University of Georgia

1996 Inductee, Phi Kappa Phi Honor Society

1994 Inductee, Phi Beta Kappa Honor Society

1994 Recipient, Guy Allen Tawney Prize - awarded by Beloit College for academic excellence in psychology

1993 Inductee, Psi Chi Honor Society

1993 Inductee, Pie Epsilon Alpha Honor Society
(Treasurer, 1993-1994)

1991 Recipient, Eldridge Scholarship - awarded by Beloit College for academic excellence

Scholarly Affiliations

Society for Neuroscience

Council on Undergraduate Research – SMCM Institutional Representative (2004-2006)

Sigma Xi – The Scientific Research Society

FUN: Faculty for Undergraduate Neuroscience

American Psychological Association

American Psychological Association Affiliate, Division Two: Teaching of Psychology

American Psychological Association Affiliate, Division Six: Behavioral Neuroscience and Comparative Psychology

Eastern Psychological Association

American Psychological Society

Research Publications

Bailey, A. M., **Lee, J. M.** (2007). Lesions to the nucleus basalis magnocellularis lower performance but do not block the retention of a previously acquired learning set. *Brain Research, 1136*, 110-121.

Bailey, A. M., McDaniel, W. F., & Thomas, R.K. (2007). Approaches to the study of higher cognitive functions related to creativity in nonhuman animals. *Methods, 42*, 3-11.

(Note : Bold typeface indicates an undergraduate collaborator.)

Bailey, A. M. (2006). Long-term retention of olfactory discrimination learning set in rats. *The Psychological Record*, 56, 219-231.

Bailey, A. M., **Rudisill, M. L., Hoof, E. J., & Loving, M.L.** (2003). 192 IgG-Saporin lesions to the nucleus basalis magnocellularis (nBM) disrupts acquisition of learning set formation. *Brain Research*, 969, 147-159.

Bailey, A. M. & Thomas, R. K. (2001). The effects of nucleus basalis magnocellularis (nBM) lesions in Long-Evans Hooded rats (*Rattus norvegicus*) on two learning set formation tasks, delayed matching-to-sample learning, and open field activity. *Behavioral Neuroscience*, 115 (2), 328-340.

Bailey, A. M., & Thomas, R. K. (1998). An investigation of oddity concept learning by rats. *The Psychological Record*, 48, 333-344.

Bailey, A. M. (1999). *The effects of nucleus basalis magnocellularis lesions on learning set formation*. Doctoral Dissertation, University of Georgia, Athens.

Bailey, A. M. (1996). *An investigation of oddity concept learning in rats*. Master's Thesis, University of Georgia, Athens.

Manuscripts in Progress

Cai, X., **Kallarackal, A.J.**, Lee, H-K, Haganir, R.L., **Gaylor, K.**, Bailey, A.M., & Thompson, S. M. (under review). Local potentiation of excitatory synapses by serotonin and antidepressants and its dysregulation in depression.

Vinish, M., Elnabawi, A., **Milstein, J., Burke, J.S., Kallevang, J.K., Turek, K. C., Lansink, C.S., Merchenthaler, I., Bailey, A. M., Kolb, B., Cheer, J.F., & Frost, D. O.** (under review). Peripubertal atypical antipsychotic treatment induced long-term changes in conditioned place preference, dopamine release and receptor binding in the nucleus accumbens core.

Bailey, A. M. (accepted abstract; full manuscript to be submitted August 25). Distinguishing performance and learning in laboratory animals.

Kallarackal, A. J., Simard, J. M., & Bailey, A. M. (under review). The effect of apamin, a small conductance calcium activated potassium (SK) channel blocker, on a mouse model of neurofibromatosis 1.

(Note : Bold typeface indicates an undergraduate collaborator.)

Paper Presentations

Bailey, A. M., & Lauber, E. J. (1998, April). Increasing working memory load specifically effects neuronal activity in prefrontal and superior parietal cortices. Paper presented at the Twenty-first Annual Psi Chi Convention for the Behavioral Sciences, Athens, GA.

Lauber, E. J., & Bailey, A. M. (1998, April). Learning to task switch and aging. Paper presented at The Seventh Cognitive Aging Conference, Atlanta, GA.

Bailey, A. M., & Thomas, R. K. (1996, August). An investigation of oddity concept learning in rats. Paper presented at the meeting of The International Society of Comparative Psychology, Montreal, Canada.

Bailey, A. M., & Thomas, R. K. (1996, March). An investigation of oddity concept learning in rats. Paper presented at the Nineteenth Annual Psi Chi Convention for the Behavioral Sciences, Athens, GA.

Bailey, A. M., & Squires, N. K. (1993, August). Auditory processing in adult dyslexia. Paper presented at the MWRAP/REU Conference, Stony Brook, NY.

Poster Presentations

Bailey, A.M., **Holmes, A., Piantadosi, P.** (November, 2011). The effects of orexin A in the nucleus basalis magnocellularis (nBM) on olfactory discrimination acquisition and reversal. To be presented at the 2011 Society for Neuroscience Meeting.

Parr, C., Kallevang, J., Fomum-Mugri, L., McDowell, K. A., & Yarowsky, P. J., Bailey, A. M. (November, 2011). Investigation of working memory and hippocampal dependent tasks in an environmentally-induced model of parkinsonism. To be presented at the 2011 Society for Neuroscience Meeting.

Tracy, M., Turek, K., Bailey, A. M., Brady, A. M., Vinish, M., **Milstein, J.,** & Frost, D.O. (November, 2011). The effects of adolescent olanzapine exposure on behavior in the neonatal ventral hippocampal lesion model of schizophrenia. To be presented at the 2011 Society for Neuroscience Meeting.

Cammarata, E., Kallarackal, A.J., Cai, X., Thompson, S.M., & Bailey, A.M. (November, 2011). Consolidation of spatial memory in the water maze is disrupted in animals exposed to chronic unpredictable stress (CUS). To be presented at the 2011 Society for Neuroscience Meeting.

Kallarackal, A., Gaylor, K., Bailey, A.M., Thompson, S.M., & Cai, X. (November, 2011).

(Note : Bold typeface indicates an undergraduate collaborator.)

Kallarackal, A., Cai, X., **Gaylor, K.**, Bailey, A. M., Thompson, S. M. (2010, November). Serotonin mediated potentiation in area CA1: Altered in depression and critical for antidepressant action. Poster presented at the Society for Neuroscience Meeting; San Diego, CA.

Konka, K., & Bailey, A.M. (2010, November). Investigating the effects of postnatal exposure to Prozac on adult rat motor and emotional behavior. Poster presented at the Society for Neuroscience Meeting; Sand Diego, CA.

Bailey, A. M., **Fomum-Mugri, L.**, McDowell, K. A., & Yarowsky, P. J. (2010, November). Investigation of non-motor related behavioral and cognitive changes in an environmentally-induced model of Parkinsonism. Poster presented at the Society for Neuroscience Meeting; San Diego, CA.

Kallarackal, A., Cai, X., **Gaylor, K.**, Bailey, A. M., Thompson, S. M. (2010, July). Serotonin mediated potentiation in area CA1: Altered in depression and critical for antidepressant action. Poster presented at the 2010 Serotonin Club Meeting, Montreal, Quebec, Canada.

Bailey, A.M., **Enos, J.**, & **Medley, V.** (2009, October). Damage to nucleus basalis magnocellularis (nBM) cholinergic target areas produce different effects on the acquisition of learning set. Poster presented at the 39th Annual Meeting of the Society for Neuroscience, Chicago, IL.

Brady, A.M., Bailey, A.M., **Calhoon, G.G.**, **Logan, T.T.**, **McGill, J.A.**, **Ruiz, C.T.**, and **Saul, R.D.** (2007, November). Impaired executive function and learning set formation in the neonatal ventral hippocampal lesion model of schizophrenia. Poster presented at the 37th Annual Meeting of the Society for Neuroscience, San Diego, CA.

Bailey, A. M., **Kallarackal, A. J.**, Chen, M., & Simard, J. M. (2006, November). Apamin significantly improves spatial cognition in a mouse model of Neurofibromatosis 1. Poster presented at the 36th Annual Meeting of the Society for Neuroscience, Atlanta, GA.

Bailey, A. M. & **Kallarackal, A. J.** (2006, March). Neurofibromatosis 1 (*Nf1*^{+/-}) Spatial Learning Deficits in the Barnes Maze. Poster presented at the 76th Annual Meeting of the Eastern Psychological Association; Baltimore, MD.

Kallarackal, A. J., Simard, J. M., & Bailey, A. M. (2005, November). Olfactory Discrimination Learning in a Mouse Model of Neurofibromatosis. Poster presented at the 35th Annual Meeting of the Society for Neuroscience, Washington, DC.

(Note : Bold typeface indicates an undergraduate collaborator.)

Bailey, A., M., St. Germain, J., & **Tyler, M.M.** (2005, November). 192 IgG-Saporin Lesions to the Nucleus Basalis Magnocellularis (nBM) Do Not Disrupt the Retention of Learning Set Formation. Poster presented at the 35th Annual Meeting of the Society for Neuroscience, Washington, DC.

Kallarackal, A. J. & Bailey, A. M. (2005, March). Olfactory discrimination learning and reversal in type 1 neurofibromatosis mice. Poster presented at the 75th Annual Meeting of the Eastern Psychological Association; Boston, MA.

Bailey, A. M. & St. Germain, J. (2005, March). 192 IgG-saporin lesions to the nBM do not impair the retention of learning set formation. Poster presented at the 75th Annual Meeting of the Eastern Psychological Association; Boston, MA.

Bailey, A. M. & **Shutty, M. L.** (2004, October). The effects of muscimol injections on learning set formation in rats. Poster presented at the 34th Annual Meeting of the Society for Neuroscience; San Diego, CA.

Shutty, M. & Bailey, A. M. (2004, April). The influence of muscimol on learning set formation. Poster presented at the 74th Annual Meeting of the Eastern Psychological Association; Washington DC.

Sides, A. & Bailey, A. M. (2004, April). Learning deficits in the *Nf1*^{tm1Frc} Mouse. Poster presented at the 74th Annual Meeting of the Eastern Psychological Association; Washington DC.

Chiappelli, J. J., & Bailey, A.M. (2004, April). Behavioral effects of infusion of 8-OH-DPAT into the orbitofrontal cortex of rats. Poster presented at the 74th Annual Meeting of the Eastern Psychological Association; Washington DC.

Bailey, A. M., **Martin, K. C., Lee, J. M., & Grabill, K. G.** (2003, November). The effects of flumazenil and nicotine injections on learning set formation in rats with quisqualic acid lesions to the nucleus basalis magnocellularis (nBM). Poster presented at the 33rd Annual Meeting of the Society for Neuroscience; New Orleans, LA.

Martin, K., Grabill, K., & Bailey A. M. (2003, March). The influence of flumazenil on learning set in NBM lesioned Long-Evans rats. Poster presented at the 73rd Annual Meeting of the Eastern Psychological Association; Baltimore, MD.

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Lee, J. M., Grabill, K., & Bailey, A. M. (2003, March). The effects of nicotine in nucleus basalis magnocellularis (NBM) lesioned rats on learning set acquisition. Poster presented at the 73rd Annual Meeting of the Eastern Psychological Association; Baltimore, MD.

(Note : Bold typeface indicates an undergraduate collaborator.)

Bailey, A. M., **Lee, J. M., Hapip, S. M., & Naumen, S. E.** (2002, November). Quisqualic lesions to the nucleus basalis magnocellularis lower performance but do not impair retention of learning set formation. Poster presented at the 32nd Annual Meeting of the Society for Neuroscience; Orlando, FL.

Young, D. M., & Bailey, A. M. (2002, March). The effects of prefrontal cortex lesions on learning set formation. Poster presented at the 72nd Annual Meeting of the Eastern Psychological Society, Boston, MA.

Johnson, E. M., Loving, M. L., & Bailey, A. M. (2002, March). Long-term retention and transfer in learning set formation. Poster presented at the 72nd Annual Meeting of the Eastern Psychological Society, Boston, MA.

Bailey, A. M., **Rudisill, M. L., Hoof, E. J., & Loving, M.L.** (2001, November) The effects of 192 IgG-Saporin lesions to the nucleus basalis magnocellularis/substantia innominata (NBM/SI) on two learning set formation tasks and open field activity. Poster presented at the 31st Annual Meeting for the Society for Neuroscience; San Diego, CA.

Loving, M. L. & Bailey, A.M. (2001, April). Comparison of learning set formation in young and aged rats. Poster presented at the 71st Annual Meeting of the Eastern Psychological Society, Washington D.C.

Bailey, A. M. (1999, October). The effects of nucleus basalis magnocellularis/substantia innominata lesions on learning set formation. Poster presented at the 29th Annual Meeting for the Society for Neuroscience; Miami, FL.

Bailey, A. M., & Lauber, E. J. (1998, April). Three 'frontal lobe' tasks and aging. Poster presented at The Seventh Cognitive Aging Conference, Atlanta, GA.

Bailey, A. M., & Lauber, E. J. (1998, April). Three 'frontal lobe' tasks and aging. Poster presented at the Twenty-first Annual Psi Chi Convention for the Behavioral Sciences, Athens, GA. **Awarded as best poster presentation by a graduate student.*

Bailey, A. M. (1994, May). Dyslexia: Physiological aspects and testing techniques. Poster presented at the Psi Chi Midwestern Conference, Chicago, IL.

Funding

Konka, K., & Bailey, A.M. (2010). Sigma Xi Grants-in-Aid of Research. \$960 stipend to pay for an undergraduate research project. Project: Investigating the effects of postnatal exposure to Prozac on adult rat motor and emotional behavior.

Logan, T.L. & Bailey, A.M. (2007). Sigma Xi Grants-in-Aid of Research. \$400 stipend to pay for an undergraduate research project. Project: The Effect of Continuous Beta-amyloid Protein Infusion into the Rat Cerebral Ventricle on Learning Set Acquisition.

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Coster, J. & Bailey, A.M. (2007). Sigma Xi Grants-in-Aid of Research. \$700 stipend to pay for an undergraduate research project. Project: The Influence of Exercise on Learning Set Formation Following Lesions to the Nucleus Basalis Magnocellularis.

Shutty, M.L. & Bailey, A.M. (2004). Sigma Xi Grants-in-Aid of Research. \$810 stipend to pay for an undergraduate research project. Project: The effect of muscimol, a GABA agonist, on the acquisition of learning set in male Long-Evans rats.

Martin, K.C. & Bailey, A.M. (2002). Sigma Xi Grants-in-Aid of Research. \$304 stipend to pay for an undergraduate research project. Project: Influences of the GABA pathway on learning in nBM lesioned Long Evens Rats.

Lee, J.M. & Bailey, A.M. (2002). Sigma Xi Grants-in-Aid of Research. \$304 stipend to pay for an undergraduate research project. Project: The effects of nicotine on learning set acquisition in nucleus basalis magnocellularis (nBM) lesioned rats.

Bailey, A.M. (2001). Council for Undergraduate Research Summer Fellowship. \$3500 summer stipend to pay an undergraduate research assistant for the summer. Project: The effects of prefrontal cortex lesions on learning set formation.

2006: Recovered Indirect Costs Award – Psychology Department. \$1000.00 awarded to continue the investigation of the role of GABA in the nucleus basalis magnocellularis during the acquisition of learning set.

2005: Recovered Indirect Costs Award Division of Human Development. \$1748.60 awarded to fund a project investigating the role of GABA in the nucleus basalis magnocellularis during acquisition of learning set.

2005: Recovered Indirect Costs Award – Psychology Department. \$17,358.00 awarded to fund a project investigating behavioral differences in a mouse model of Neurofibromatosis 1.

1999 – 2011: St. Mary's College Faculty Development Grants.

1998 Recipient: APF/COGDOP Graduate Research Scholarship in Psychology - one of nine individuals awarded a \$1000 scholarship to support the doctoral research project. Given by the American Psychological Foundation and Council of Graduate Departments of Psychology.

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Courses Taught

Research Methods in Psychology
Introduction to Psychology
Psychological Statistics
Biological Psychology
Psychology of Learning
Drugs, Brain, and Behavior
Comparative Animal Behavior
Directed Research in Psychology
Introduction to the Neurosciences
Seminar in the Neurosciences
Advanced Seminar in the Neurosciences
Directed Research in the Neurosciences
Special Topics: Neurobiology of Learning and Memory
Laboratory Techniques in Behavioral Neuroscience

Supervisory Experience

Mentored St. Mary's Project (undergraduate thesis; SMCM Psychology Dept.): 56
Supervised Undergraduate Internships (SMCM Psychology Dept.): 5
Supervised Directed Research in Psychology or Neuroscience (SMCM): 33

Service

College-Wide Service (SMCM)

Chair, Psychology Department	2011 - Current
Faculty Senator	2008 – 2010
College Evaluation Committee	2009 – 2011
Chair	2010 – 2011
Academic Judicial Board	2005-2011
Acting Chair	Spring 2011
Chair	2009 –2010
Coordinator for the Neuroscience Cross Disciplinary Minor	2010 – 2011
	2006 – 2008
	2003 – 2005
Faculty Advisor, <i>Nu Rho Psi</i>	2007-Current
Health Sciences Advising Committee	2006- Current
Steering Committee for the Middle States Self Study:	
Co-Chair Standard 14 (Assessment of Student Learning).	2003 - 2005
Nitze Scholar's Committee Member	2000-2003
College Assessment Committee	2000- 2005
SMCM Compliance Council	2001 –2005
Phi Beta Kappa Committee on Members	2001-2005
Chair	2003 –2005
Molecular Evolutionary Biology Search Committee	2000-2001

Governor's Internship Review Board 2001-2002
New Faculty Mentor 2000-2004

Departmental Service (SMCM)

Psychology Self Review Sub-Committee Chair 2009
Psychology Department Visiting Professor Search Committee 2009
Psychology Department Cognitive Psychology Tenure Track
Search Committee 2006
Psychology Department Diversity Committee 2006-Current
Psychology Department Assessment Committee (Chair) 2004
Behavioral Neuroscience Psychology Tenure Track Search Committee 2003, 2004
Social Psychologist Tenure Track Search Committee 2002, 2003
Behavioral Neuroscientist Visiting Professor Search Committee 2001-2005
Psi Chi Induction Address 2000

Other College Service (SMCM)

Guest Presentation WISH House: Estrogen and Alzheimer's 2010
Faculty Seminar: "Can you smell the difference? The Acquisition of Learning Sets in the Brain." 2004
Council for Undergraduate Research Institutional Representative 2004-
Psychology and Neuroscience Representative at Open Houses 1999-2004
Teaching/Learning Panel Member: "What do we want our students to know? How do we know when they know it?" March, 2002
Faculty Seminar Introduction – Charles J. Holden Fall 2002
Faculty Seminar Introduction – Linda Coughlin Fall 2002
Panelist: "Surviving Graduate School" - Sponsored by the Office of Career Services 2001
Panelist: "How to Get into Graduate School" – Sponsored by the Office of Career Services 1999

Professional Service

Editor of Psychology and Behavioral Neuroscience for the *American Journal of Undergraduate Research.* 2002 –
Reviewer: *Experimental Neurology* 2008-
Reviewer: *Neuroscience* 2007 -
Reviewer: *Journal of Comparative Psychology* 2007 –
Reviewer: *Neurochemistry International* 2007 –
Reviewer: *Behavioral Brain Research* 2004 –
American Society for Engineering Education
NDSEG Fellowship Review Panel member: 2002-2005
Reviewer: *Journal of Gerontology: Psychological Sciences* 1998

Graduate School Service (UGA)

Teaching Assistant Mentorship Program, University of Georgia	1998-1999
Developed an internet-based teaching resource file for the Department of Psychology at the University of Georgia.	1998-1999
Guest panelist for session “Balancing Roles: TA’s as students, teachers, and researchers,” Graduate Teaching Workshop.	1999
Graduate Student TA Mentor for new graduate instructors for Research Methods in Psychology (Psy. 298).	1997-1999

REFERENCES

Dr. Roger K. Thomas (Graduate Major Professor)

The University of Georgia
Department of Psychology
Athens, GA 30602-3013
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Dr. Philip V. Holmes
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Dr. Wesley Jordan
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