# Curriculum Vita

## Personal Data

Name: **Aileen Marie Bailey**
Office Address: St. Mary's College of Maryland
Department of Psychology
St. Mary's City, MD 20686
Tel: (240) 895-4338
Fax: (240) 895-4436
email: ambailey@smcm.edu

## Education

Ph.D., 1999; Biopsychology.
The University of Georgia, Athens, Georgia 30602-3013.
Doctoral Dissertation: *The effects of nucleus basalis magnocellularis lesions on learning set formation.*

M.S., 1996; Biopsychology.
The University of Georgia, Athens, Georgia 30602-3013.
Master's Thesis: *An investigation of oddity concept learning in rats.*

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

## Faculty Positions

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| 2025 - 2026 | Coordinator of the Data Science Minor, St. Mary's College of Maryland, St. Mary's City, Maryland |
| 2021 – 2023 | Co-Chair of Psychology, St. Mary's College of Maryland, St. Mary's City, Maryland |
| 2020 – 2021 | Acting Chair of Biology, St. Mary's College of Maryland, St. Mary's City, Maryland |
| 2020 – 2021 | Assistant Chair of Psychology, St. Mary's College of Maryland, St. Mary's City, Maryland |
| 2015 – 2018 | Aldom-Plansoen Honors College Professor, St. Mary's College of Maryland, St. Mary's City, Maryland |

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| 2015 –2019 | Neuroscience Minor Coordinator, St. Mary's College of Maryland, St. Mary's City, Maryland |
| 2015 – 2018 | Assistant Chair of Psychology, St. Mary's College of Maryland, St. Mary's City, Maryland |
| 2013 – present | Professor, Department of Psychology, St. Mary's College of Maryland, St. Mary's City, Maryland |
| 2011 – 2015 | Chair, Psychology Department, St. Mary's College of Maryland, St. Mary's City, Maryland |
| 2005 – 2013 | 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, Department 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 (2007-2022)

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
Society for the Teaching of Psychology (APA Division 2)
Council on Undergraduate Research – SMCM Institutional Representative (2004-2006)
Sigma Xi – The Scientific Research Society
FUN: Faculty for Undergraduate Neuroscience

## Research Publications

Bailey, A.M., **Barrett, A., Havens, L., Leyder, E., Merchant, T., Starnes, H.,** & Thompson, S.M. (2023). Changes in social, sexual, and hedonic behaviors in rats in response to stress and restoration by a negative allosteric modulator of α5-subunit containing GABA receptor. *Behavioural Brain Research, 452,* 114554. https://doi.org/10.1016/j.bbr.2023.114554

Bailey, A.M., Fernandez, G.M., & Mantell, J.T. (2021). Optimizing resources: Applying quantitative resource analysis to facilitate resource-neutral curricular reform. *Scholarship of Teaching and Learning in Psychology.* https://doi.org/10.1037/stl0000302

**Roberts, B.M., Jarrin, S.E.,** Mathur, B.N., & Bailey, A.M. (2016). Illuminating the undergraduate behavioral neuroscience laboratory: A guide for the in vivo application of optogenetics in mammalian model organisms. *The Journal of Undergraduate Neuroscience Education, 14 (2),* A110-A15.

Kvarta, M., **Bradbrook, K., Dantrassy, H.,** Bailey, A.M. & Thompson, S.M. (2015). Corticosterone mediates the synaptic and behavioral effects of chronic stress at hippocampal temporoammonic synapses. *Journal of Neurophysiology,114,* 1713-1724.

**Piantadosi, P.T., Holmes, A., Roberts, B.M.,** & Bailey, A.M. (2015). Orexin receptor activity in the basal forebrain alters performance on an olfactory discrimination task. *Brain Research, 1594*, 215-222.

Kallarackal, A.J., Kvarta, M.D., **Camaratta, E.,** Jaberi, L., Cai, X., Bailey, A.M., & Thompson, S.M. (2013). Chronic stress induces a selective decrease in AMPA receptor-mediated synaptic excitation at hippocampal temporoammonic-CA1 synapses. *Journal of Neuroscience, 33 (40),* 15669-15674.

Cai, X., Kallarackal, A.J., Kvarta, M.D., **Goluskin, S. Gaylor, K.,** Bailey, A.M., Lee, H-K, Huganir, R.L. & Thompson, S. M. (2013). Local potentiation of excitatory synapses by serotonin and its alteration in rodent models of depression. *Nature Neuroscience, 16 (4),* 464-472.

(Note : Bold typeface indicates an undergraduate collaborator.)

Milstein, J.A., Elnabawi, A., Vinish, M., **Swanson, T., Enos, J.K.,** Bailey, A.M., Kolb, B. & Frost, D.O. (2013). Olanzapine treatment of adolescent rats causes enduring specific memory impairments and alters cortical development and function. *PLOS ONE, 8 (2),* 1-17.

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. (2013). Olanzapine treatment of adolescent rats alters adult reward behavior and nucleus accumbens function. *International Journal of Neuropsychopharmacology,* 1-11.

**Kallarackal, A. J.,** Simard, J. M., & Bailey, A. M. (2013). The effect of apamin, a small conductance calcium activated potassium (SK) channel blocker, on a mouse model of neurofibromatosis 1. *Behavioural Brain Research, 237,* 71-75.

Bailey, A. M. (2011). Distinguishing performance and learning in laboratory animals. *Journal of Behavioral and Neuroscience Research, 9 (2),* 16-20.

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.

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.

## Manuscripts in Progress

**Holsey, S.**, & Bailey, A.M. (in progress). Seeds of Resilience: Can black cumin's thymoquinone improve memory and mood in chronically stressed adolescent rats?

## Poster Presentations

Bailey, A.M., **Steinhoff, B., Robey, K.** (2019; October). Antidepressant efficacy of L-655, 708 following infusions into the medial prefrontal cortex. Poster presented at the 2019 Society for Neuroscience Meeting: Chicago, IL.

Bailey, A.M., **Friedman, L., & Merchant, T.** (2019, March). The effects of chronic stress on social dominance in rodents. Poster presented at the annual Eastern Psychological Association Meeting: New York, NY.

Bailey, A.M., **Bell, K., Lynn, J., Madden, M., Steyert, M., Zhang, S.,** & Thompson, S.M. (2018, November). The antidepressant effects of the alpha5 subunit-selective negative allosteric modulators of GABA-A receptors in rodent models of depression. Poster presented at the 2018 Society for Neuroscience Meeting: San Diego, CA.

**Bell, K., Lynn, J.,** & Bailey, A.M. (2018, March). GABA-NAM, L-655, 708, shows rapid antidepressant and long-term protective effects. Poster presented at the 2018 Eastern Psychological Association Meeting: Philadelphia, PA.

**Kostelnik, C., Madden, M., Robey, K., Barrett, A., Leyder, E.,** Thompson, S.M., & Bailey, A.M. (2017, November). Intraventricular and intrahippocampal infusions of alpha-5 subunit-selective negative allosteric modulators of GABA-A receptors produce rapid antidepressant behavioral changes. Poster presented at the 2017 Society for Neuroscience Meeting: Washington, DC.

**Barrett, A., La, K., Starnes, H.,** Thompson, S.M., & Bailey, A.M. (2017, November). The influence of alpha5 subunit-selective negative allosteric modulators of GABA-A receptors on sexual conditioned place preference in a rodent model of depression. Poster presented at the 2017 Society for Neuroscience Meeting: Washington, DC.

**Forrester-Fronstin, Z., Winters, M.R.,** & Bailey, A.M. (2017, November). The influence of orexin antagonist, SB-334867, on cognitive flexibility. Poster presented at the 2017 Society for Neuroscience Meeting: Washington, DC.

Thompson, S.M., Nelson, M., Zanos, P., Krimmel, S., Pribut, H.J**., Kostelnik, C., Starnes, H.,** Bailey, A.M. & Gould, T.D. (2016, November). Alpha5 subunit-selective negative allosteric modulators of GABA-A receptors exert a rapid antidepressant action without evidence of being addictive. Poster presented at the 2016 Society for Neuroscience Meeting: San Diego, CA.

Thompson, S.M., Fischell, J., Nelson, M., Zanos, P., Bailey, A.M., Gould, T.D. (2016, July). Rapid antidepressant properties of alpha5 subunit-selective negative allosteric modulators of GABA-A receptors. Paper presented at the 2016 International Congress of Neuropsychopharmacology: Seoul, Korea.

**Kostelnik, C., Starnes, H., Bertoni, M.**, & Bailey, A.M. (2016, March). Conditioned place preference shows no intrinsic rewarding value for the drug L-655, 708. Poster presented at the 2016 Eastern Psychological Association Meeting: New York, NY.

Kvarta, M.D., **Bradbrook, K.E., Dantrassy, H.M.,** Bailey, A.M., Thompson, S.M. (2014, November). Elevated corticosterone mediates the behavioral and neurobiological effects of chronic stress at rat hippocampal temporoammonic-CA1 synapses. Poster presented at the 2014 Society for Neuroscience Meeting: Washington, DC.

**Konka, K.,** Bailey, A., & Geller, P.A. (2014, August). Effects of postnatal exposure to fluoxetine and investigating alternative treatments for postpartum depression. Poster presented at the annual convention of the American Psychological Association: Washington, DC.

Milstein, J., **Placek, K., Ehrig, W., Bouslog, C., Sitz, L.,** Frost, D.O., & Bailey, A.M. (2012, October). Prenatal fluoxetine exposure: mitigation of social, emotional, motor, and cognitive abnormalities with neonatal tactile stimulation. Poster presented at the 2012 Society for Neuroscience Meeting: New Orleans, LA.

Bailey, A.M., **Sitz, L.M., Palacorolla, H.L., Burke, J.S.,** Milstein, J., & Frost, D.O. (2012, October). Effects of adolescent exposure to the antipsychotic, olanzapine, on classical fear and appetitive operant conditioning in adult rats. Poster presented at the 2012 Society for Neuroscience Meeting, New Orleans, LA.

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

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

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

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

Kallarackal, A.**, Gaylor, K**., Cai, X., Bailey, A.M., Thompson, S.M., (2011, November). 5-HT1B receptor-mediated potentiation of excitatory synaptic transmission is required

for the therapeutic action of antidepressants in mice. Poster presented at the 2011 Society for Neuroscience Meeting: Washington, DC.

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: San 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.

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*$^{tmlFrc}$ 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 magnocellumaris (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.

**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.

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.

## 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.

## Pedagogical Publications

Bailey, A., Grzymalski, S., Mantell, J., Payne, Z., Rhonehouse, A., & Washington, J. (in review). Swipe right on data: It's the hottest skill you can learn! *APA Psychology Student Network.*

Mantell, J., & Bailey, A. (2025, August 18). Adding advanced data science skills in psychology laboratory courses. Society for the Teaching of Psychology, *E-xcellence in Teaching*. https://teachpsych.org/E-xcellence-in-Teaching-Blog/13532728

Bailey, A., & Mantell, J. (2025, March 18). Undergraduate psychology programs should teach advanced data science skills. *APA Psychology Teacher Network.* https://www.apa.org/ed/precollege/psychology-teacher-network/introductory-psychology/undergraduate-advanced-data-science

Bailey, A.M. (2024). Specifications and Competency-Based Grading in a 200-Level Physiological Psychology Course. In Buffalari, D., Carpenter, E., & Skogsberg, K. (Eds.). (2024).Getting started with alternative grading in the psychology classroom: Rationale and Resources. (pp 10-16). The Society for the Teaching of Psychology. https://teachpsych.org/ebooks/altgrading

## Pedagogical Presentations

Mantell, J.T., Grzymalski, S., Washington, J., & Bailey, A.B. (May, 2025). Undergraduate Psychology Programs Must Develop Data Science Curricula. Presented at Annual Convention of the Association for Psychological Science, Washington, DC.

Bailey, A.M., Grzymalski, S., Washington, J., & Mantell, J.T. (March, 2025). Impact of Advanced Data Science Instruction in Psychology Laboratory Courses. Presented at the Annual Eastern Psychological Association Meeting, New York, NY.

Bailey, A.M., & Mantell, J.T. (January, 2025). Collaboratively Enhancing Data Science Skills in Psychology Majors. Presented at the National Institute on the Teaching of Psychology. Clearwater Beach, FL.

Bailey, A.M., & Mantell, J.T. (January, 2025). Increase in Data Science Confidence following Enhanced Data Science Instruction in Psychology Lab Courses. Presented at the National Institute on the Teaching of Psychology. Clearwater Beach, FL.

Bailey, A.M., & Mantell, J.T. (October, 2024). Adding Advanced Data Science Skills in Psychology Laboratory Courses. Presented at the Annual Conference on Teaching of Psychology. Louisville, KY.

Buffalari, D., Skogsberg, K., Melly, A., Peters, S., Bailey, A.M., & Taggart, T. (October, 2024). Getting Started with Alternative Grading. Workshop given at the Annual Conference on Teaching of Psychology. Louisville, KY.

Mantell, J.T., & Bailey, A.M. (June, 2024). Embedding Data Science Skills in Psychology Laboratory Courses. Presented at the 2024 ConnectUR Annual Conference. College Park, MD.

Mantell, J.T., & Bailey, A.M. (June, 2024). Teaching Data Science in Psychology Courses. Presented at the 2024 Improving Undergraduate STEM Education (IUSE) National Summit. Washington, DC.

Osborn, J., Kinzie, J., Quenemoen, C., Bailey, A., & Nellutla, S. (January, 2024). Leading structural and cultural change to advance curricular scaffolding for equity. Association of American Colleges and Universities Annual Meeting; Washington, DC.

Bailey, A.M., Bowers, R., Neiles, K. (August, 2022). Specifications Grading. Panel member at the Inclusive and Innovative Instruction Conference, St. Mary's College of Maryland, MD.

Bailey, A. M. (January, 2022). Transforming the psychology curriculum. Presented at St. Mary's College of Maryland Research Excellence Workshop; St. Mary's City, MD.

Malachowkski, M, Ambos, E, Karukstis, K., Osborn, J., Deline, A., Brush, E., Bailey, A.M., & Fernandez, G.M. (June, 2021). Creating greater equity by scaffolding research into undergraduate curricula. Paper presented at the CUR Conference (virtual).

Bailey, A.M., Fernandez, G.M., & Mantell, J.T. (June, 2020). Optimizing resources: Adding undergraduate research experiences to the curriculum using existing resources. Poster presented at the CUR Biennial Conference (virtual).

Mantell, J.T., Freedman, G., Fernandez, G.M., Draheim, A., Williams, L.N., & Bailey, A.M. (June, 2020). Undergraduate students' knowledge of research methods and statistics: An integrated approach to skills and content. Poster presented at the CUR Biennial Conference (virtual).

Bailey, A.M. & Mantell, J.T. (January, 2020). How to redistribute your resources to enhance scholarly experiences for students and faculty. Presented at St. Mary's College of Maryland Research Excellence Workshop; St. Mary's City, MD.

Bailey, A.M., Fernandez, G.M., & Mantell, J.T. (January, 2020). Optimizing resources: Using what you have to improve your curriculum. Presented at the National Institute on the Teaching of Psychology; St. Pete Beach, FL.

Neiles, K., Bowers, G. Mantell, J.T., & Bailey, A.M. (2019, October). What are we learning? Answering our questions with backward design. Invited presentation at the Council on Undergraduate Research Transformations Project Year 3 Collaboration Meeting, Rice University, Houston, TX.

Mantell, J.T., Fernandez, G., Dennis, T., Williams, E., Freedman, G., Draheim, A., & Bailey, A. (2019, October). Transforming Undergraduate Psychology Research: Year 2. Poster session presented at the Council on Undergraduate Research Transformations Project Year 3 Collaboration Meeting, Rice University, Houston, TX.

Bailey, A.M., Mantell, J.T., Mertz, P., & Neiles, K. (2019, August). Working backward to move forward: How a backward design model of curricular reform can better prepare our students for success. Presentation at the Inclusive and Innovative Instruction Conference, St. Mary's College of Maryland, MD.

Koenig, C., Foster, N., Mantell, J.T., & Bailey, A. (2018, November). CUR Transformations Project. Poster session presented at the Council on Undergraduate Research Transformations Project Year 2 Collaboration Meeting, College of New Jersey, Ewing, NJ.

## Pedagogical Work

Created online digital content for *Introduction to Brain and Behavior, 6e* (Kolb, B., Whishaw, I.Q., & Teskey, G.C., 2019) assessable via LaunchPad (Macmillan Learning).

## Pedagogical Training

Association of American Colleges & Universities (AAC&U) 2021 Teaching to Increase Diversity and Equity in STEM (TIDES) Institute: Team Member

Association of American Colleges & Universities (AAC&U) 2018 Institute on Integrative Learning and Signature Work: Team Member

## Funding

Mantell, J.T. & Bailey, A.M. ($297,988). Developing Modernized Data Science Instruction in Psychology Curricula. NSF IUSE 2235645, 2023-2026

Subaward to Aileen M. Bailey ($213,056) under Research Project Grant R01MH086828 (S. Thompson, UMB), 2015-2020

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 – 2018: 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.

**Student Mentee Honors and Awards**

*Student Research Honors:*

Jayden Washington '25 Myron G. Marlay St. Mary's Project Award, 2025
Allyson Myers '22 Myron G. Marlay St. Mary's Project Award, 2022
Maxwell Madden '18 Myron G. Marlay St. Mary's Project Award, 2018
Marilyn Steyert '18 Myron G. Marlay St. Mary's Project Award, 2018
Claire Kostelnik '17 Psychology St. Mary's Project Award, 2017
Samuel Hirsh '16 Myron G. Marlay St. Mary's Project Award, 2016
Sarah Jarrin '15 Myron G. Marlay St. Mary's Project Award, 2015
Bradley Roberts '15 Myron G. Marlay St. Mary's Project Award, 2015
Katerina Placek '12 Psychology St. Mary's Project Award, 2012
Erin Cammarata '11 Myron G. Marlay St. Mary's Project Award, 2011
Hope Lobkowicz '04 Myron G. Marlay St. Mary's Project Award, 2004
Joshua Chiappelli '04 Geneva Boone St. Mary's Project Award, 2004
Kelly Martin '03 Geneva Boone St. Mary's Project Award, 2003
Erin Johnson '02, Myron G. Marlay St. Mary's Project Award, 2002

*Student Research Funding and Fellowships:*

Mary (Katie) Robey, '19 Sigma Xi Grant-in-Aid of Research ($992)
Brooke Steinhoff, '19 Beta Beta Beta Undergraduate Research Grant ($500)
Maxwell Madden, '18 Psi Chi Undergraduate Research Grant, 2017 ($1500)
Marilyn Steyert '18 Sigma Xi Grant-in-Aid of Research, 2017 ($918)
Zoey Forrester-Fronstin '17 Psi Chi Undergraduate Research Grant, 2017 ($1500)

Claire Kostelnik '17 Psi Chi Undergraduate Research Grant, 2017 ($1500)
Samuel Hirsh '16 Sigma Xi Grant-in-Aid of Research, 2015 ($972)
Bradley Roberts '15 Sigma Xi Grant-in-Aid of Research, 2014 ($700)
Sarah Jarrin '15 and Bradley Roberts '15, Tri Beta Undergraduate Research Grant, 2014 ($393)
Katerina Placek '12 Psi Chi Undergraduate Research Grant, 2011 ($1200)
Sasha Goluskin '12 Psi Chi Undergraduate Research Grant, 2011 ($1500)
Kimberly Konka '10 Sigma Xi Grant-in-Aid of Research, 2009 ($960)
Trever Logan '08 Sigma Xi Grant-in-Aid of Research, 2007 ($400)
Jenalee Coster '08 Sigma Xi Grant-in-Aid of Research, 2007 ($700)
Joshua Chiappelli '04 Psi Chi Undergraduate Research Grant, 2003 ($1000)
Megan Shutty '04 Sigma Xi Grant-in-Aid of Research, 2003 ($810)
Kelly Martin '03 Sigma Xi Grant-in-Aid of Research, 2002 ($304)
Jennifer Lee '03 Sigma Xi Grant-in-Aid of Research, 2002 ($304)

## Courses Taught

Research Methods in Psychology
Introduction to Psychology
Psychological Statistics
Biological Psychology with Laboratory
Psychology of Learning wit Laboratory
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
Learning and Cognition
Physiological and Sensory Psychology
Laboratory Seminar in Learning Theory
Scientific Writing and Professional Development
Psychological Research, Analysis, and Writing I
Psychological, Research, Analysis, and Writing II
Topics in Biological and Sensory Processes: Exercise and the Brain

## Service

**College-Wide Service (SMCM)**

| | |
|---|---|
| Middle States Standard 3 Co-Chair | 2023-2024 |
| Phi Beta Kappa – SMCM Chapter President | 2022 – present |
| Acting Chair, Biology | 2020 - 2021 |

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|---|---|
| Core Design Work Group Vice Chair | 2018 – 2019 |
| IACUC Associate Chair | 2018 – 2019 |
| Ad Hoc Core Curriculum Committee Chair | Spring 2018 |
| IACUC Chair | 2017 – 2018 |
| CUR Transformation Psychology Team Lead | 2020 – 2021 |
| CUR Transformation Psychology Team Co-Lead | 2019 – 2020 |
| CUR Transformation Psychology Team Lead | 2016 – 2019 |
| New Faculty Mentor | 2016 – 2019, 23-24 |
| NIH BRAD Steering Committee | 2015 – 2021 |
| Chair, Psychology Department | 2011 - 2015 |
| 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 | 2015 - 2019 |
| | 2010 – 2011 |
| | 2006 – 2008 |
| | 2003 – 2005 |
| Neuroscience Program Steering Committee | 2003 – current |
| Neurobiology Tenure-Track Search Committee | Fall 2012 |
| Faculty Advisor, *Nu Rho Psi* | 2007 - 2021 |
| Health Sciences Advising Committee | 2006- 2012 |
| 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 |
| | 2016 - 2024 |

**Departmental Service (SMCM)**

| | |
|---|---|
| Psychology Program Evaluation Co-Chair | 2025-2026Psychology |
| PSYC 204/206 Developmental Team Lead | 2024-2026 |
| CUR Transformations Team Lead | 2016 – 2021 |
| Psychology Department Assistant Chair | 2020-2021 |
| | 2015-2018 |
| Psychology Self Review Sub-Committee Chair | 2009 |
| Psychology Department Diversity Committee | 2006-2011 |
| Psychology Department Assessment Committee | 2004, |
| | 2015-2019 |

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|---|---|
| | 2021-current |
| Psi Chi Induction Address | 2000 |

**Other College Service (SMCM)**

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|---|---|
| Neuroscience Search Committee Member | 2025 |
| Attendee; AAC&U Conference on Integrated Learning | 2018 |
| Attendee; CUR Biennial Conference | 2018 |
| Neurobiology Search Committee Chair | 2018 |
| Office for Laboratory Animal Welfare Application Team | 2016 – 2018 |
| Securing Externa Funding in the Sciences and Social Sciences; Panel Member SMCM Research Forum January 12, 2018 | 2018 |
| 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 | 2004-2005 |
| 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**

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|---|---|
| Editor of Psychology and Behavioral Neuroscience for the *American Journal of Undergraduate Research*. | 2002 – current |
| Nu Rho Psi – Charter Review | 2019 |
| Nu Rho Psi – Undergraduate Research Grant Reviewer | 2018 |
| Reviewer: *Brain Research* | 2018 – current |
| Reviewer: *Experimental Neurology* | 2008 – current |
| Reviewer: *Neuroscience* | 2007 – current |
| Reviewer: *Journal of Comparative Psychology* | 2007 – current |
| Reviewer: *Neurochemistry International* | 2007 – current |
| Reviewer: *Behavioral Brain Research* | 2004 – current |
| American Society for Engineering Education NDSEG Fellowship Review Panel member: | 2002-2005 |
| Reviewer: *Journal of Gerontology: Psychological Sciences* | 1998 |

**Community Service (Science Outreach)**

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|---|---|
| Invited Presentation: Learning about brains via dissection; Esperanza Middle School, California, MD | 2019 |
| Invited Presentation: How do we learn?; Spring Ridge Middle School, Ridge, MD | 2017 |

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|---|---|
| St. Mary's County Brain Battles Judge; Spring Ridge Middle School; Ridge MD | 2017 |
| St. Mary's County Science Fair Judge – Behavioral Sciences; Behavioral Medicine; Translational Medicine | 2016 – 2020 |

**Graduate School Service (University of Georgia)**

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|---|---|
| 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 |