

Contact Information

James Mantell (he/him)
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Education

PhD, Cognitive Psychology University at Buffalo, The State University of New York Buffalo, New York, USA	2013
MA, General Psychology University at Buffalo, The State University of New York Buffalo, New York, USA	2011
BA, Psychology and Philosophy Honors College, Millersville University Millersville, Pennsylvania, USA	2005

Professional Appointments

Aldom-Plansoen Honors College Professor	Fall 2024—Spring 2026
Chair, Department of Psychology, St. Mary’s College of Maryland (SMCM)	Fall 2023—
Associate Professor of Psychology, SMCM	Fall 2020—
Assistant Professor of Psychology, SMCM	Fall 2014—Spring 2020
Visiting Assistant Professor of Psychology, SMCM	Fall 2013—Spring 2014
Graduate Instructor, University at Buffalo, The State University of New York	Fall 2010—Summer 2013
Research Assistant, Center for Pediatric Auditory and Speech Sciences, Nemours Children’s Hospital	2005—2007

Research Expertise

I utilize experimental and correlational methods to investigate the psychological processes responsible for human perception and action. My empirical interests include perceptual processing, mental structure, music cognition, climate change behaviors, and data science pedagogy.

Teaching Experience

My syllabi are licensed under Creative Commons and are available on my personal website listed above.

St. Mary’s College of Maryland	Semester
CORE 101 Mind, Brain, Music	F16, F17, F18, F19
LEAD 101/301 The History of The End (formerly CORE 101)	F21, F22, F24, F25
MUSC 112 Music as Communication (long-term guest instructor)	F21
NEUR 301/303 Seminar in the Neurosciences	F15, F16, F17
NEUR 399 Independent Study: Brain Bee	S18, S19, S20, S22, S23, S24

PSYC 204 Psychological Research, Analysis, and Writing I	F19, S21, S22, F25
PSYC 206 Psychological Research, Analysis, and Writing II	S20, F22, F23
PSYC 221 Cognitive Psychology	S26
PSYC 222 Topics: Psychology of Music	F21, S23, S24
PSYC 301 Psychological Statistics	F13, S14, F14, S15, F15, S16, F16, S17, S19
PSYC 303 Writing and Research Methods in Psychology	F15
PSYC 307 Classroom Assistantship in Psychology	F22, F23, S24, S25, F25
PSYC 310 Scientific Writing and Professional Development	S25
PSYC 312 Sensation & Perception	F13, S14
PSYC 323 Perception, Cognition, Computation	S21, S22, S23, S24, S25, S26
PSYC 326 Perception with Lab	S15, S16, S17, S18, S20
PSYC 396 Collaborative Research in Psychology	S23, F24
PSYC 398 Off-campus internship	Su23, Su24
PSYC 405 History & Systems of Psychology	F17, S18, S19
PSYC 484 Advanced Topics: Consciousness	F24, F25
PSYC X97 Directed Research	~every semester since S14
PSYC or NEUR 493/494 St. Mary's Project	~every semester since F14
University at Buffalo, The State University of New York	Semester
PSY 447 Psychology of Music	Su13 (at Singapore Institute of Management)
PSY 207 Psychological Statistics	F11, S12, Su12
PSY 488 Situated and Distributed Cognition	F10

Posters and Presentations

Bold indicates former or current undergraduate colleague.

- Bailey, A. M., & Mantell, J. T. (Accepted). *Infusion of data science instruction in an undergraduate psychology of learning course* [Conference presentation]. Eastern Psychological Association, Boston, MA, United States.
- Mantell, J. T. (2025, October). *Synesthesia and music* [Invited presentation]. Sound Immersion: Nightscapes—Melting Sensorial Boundaries [Performing arts program by Rie Moore]. St. Mary's City, MD, United States.
- Mantell, J. T., **Grzymalski, S.**, **Washington, J.**, & Bailey, A. (2025, May). *Undergraduate psychology programs must develop data science curricula*. [Poster session]. Association for Psychological Science Annual Convention, Washington D.C., United States.
- Bailey, A. M., **Grzymalski, S.**, **Washington, J.**, & Mantell, J. T. (2025, March). *Impact of advanced data science instruction in psychology laboratory courses* [Poster session]. Eastern Psychological Association conference, New York, NY, United States.
- Bailey, A. M., & Mantell, J. T. (2025, January). *Increase in data science confidence following enhanced data science instruction in psychology lab courses* [Poster session]. National Institute on the Teaching of Psychology, Clearwater Beach, FL, United States.
- Bailey, A. M., & Mantell, J. T. (2025, January). *Collaboratively enhancing data science skills in psychology majors* [Conference presentation]. National Institute on the Teaching of Psychology—Participant Idea Exchange, Clearwater Beach, FL, United States.
- Mantell, J. T., & **Wilson, C.** (2024, November). *Ruffled music: Evidence for ensemble auditory perception* [Poster session]. Psychonomic Society annual meeting, New York, NY, United States.
- Bailey, A. M., & Mantell, J. T. (2024, October). *Adding advanced data science skills in psychology laboratory courses* [Conference presentation]. Annual Conference on Teaching, Society for the Teaching of Psychology, Louisville, KY, United States.

- Mantell, J. T., & Bailey, A. M. (2024, June). *Embedding data science skills in psychology laboratory courses* [Conference presentation]. Council on Undergraduate Research (CUR) ConnectUR 2024 Annual Conference, College Park, MD, United States.
- Mantell, J. T., & Bailey, A. M. (2024, June). *Teaching data science in psychology courses* [Conference presentation]. 2024 Improving Undergraduate STEM Education (IUSE) National Summit, Washington, D.C., United States.
- Mantell, J. T., **Johnson, M. R.**, & **Atwell, J. C.** (2022, November). *Rapid acquisition of implicit absolute pitch memories* [Virtual poster session]. Psychonomic Society annual meeting, Boston, MA, United States.
- Bailey, A. M., Fernandez, G. M., Freedman, G., Ikizler, A.S., & Mantell, J. T. (2021, June). *Strategies for successful curricular change to provide equity in undergraduate research opportunities* [Interactive session]. Council on Undergraduate Research: Centering Diversity, Equity + Inclusion in Undergraduate Research + Creative Activity Conference.
- Mantell, J. T., & **Steelman, R.** (2020, November). *Vocal production as a measure of linguistic associations between space and pitch* [Poster session]. Psychonomic Society virtual annual meeting.
- Mantell, J. T., Freedman, G., Fernandez, G. M., Draheim, A., Williams, E. N., & Bailey A. M. (2020, June). *Undergraduate students' knowledge of research methods and statistics: An integrated approach to skills and content* [Poster session]. Council on Undergraduate Research Virtual Biennial Conference.
- Bailey, A. M., Fernandez, G. M., & Mantell, J. T. (2020, June). *Optimizing resources: Adding undergraduate research experiences to the curriculum using existing resources* [Poster session]. Council on Undergraduate Research Virtual Biennial Conference.
- Bailey, A., & Mantell, J. T. (2020, January). *How to redistribute your resources to enhance scholarly experiences for students and faculty* [Invited presentation]. St. Mary's College of Maryland Research Excellence Workshop, St. Mary's City, MD, United States.
- Bailey, A., Fernandez, G., & Mantell, J. T. (2020, January). *Optimizing resources: Using what you have to improve your curriculum* [Poster session]. Annual National Institute on the Teaching of Psychology conference, St. Pete Beach, United States.
- 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]. Council on Undergraduate Research Transformations Project Year 3 Collaboration Meeting, Rice University, Houston, TX, United States.
- Neiles, K., Bowers, G., Mantell, J. T., & Bailey, A. (2019, October). *What are we learning? Answering our questions with backward design* [Invited presentation]. Council on Undergraduate Research Transformations Project Year 3 Collaboration Meeting, Rice University, Houston, TX, United States.
- Thompson, R.**, & Mantell, J. T. (2019, August). *Singing to learn: How melodic content affects encoding and retrieval* [Poster session]. Society for Music Perception and Cognition conference, New York, NY, United States.
- Bailey, A., Mantell, J. T., Neiles, K., & Mertz, P. (2019, August). *Working backward to move our students forward: How a backward design model of curricular reform can better prepare our students for success.* [Presentation]. Inclusive and Innovative Instruction Conference, St. Mary's College of Maryland, St. Mary's City, MD, United States.
- Mantell, J. T. (2019, June). *The role of timbre and absolute pitch content in song learning and recall* [Invited presentation]. Methods for Analyzing Sound and Modeling Auditory Plasticity short course, University at Buffalo, Buffalo, NY, United States.
- Mantell, J. T. (2019, June). *Methods for analyzing sound in Praat* [Invited presentation]. Methods for Analyzing Sound and Modeling Auditory Plasticity short course, University at Buffalo, Buffalo, NY, United States.
- Mantell, J. T. (2019, March). *Pitch production accuracy in the imitation of one note songs* [Conference presentation]. Vocalization, Imitation, and Infant Cognition Symposium at the Eastern Psychological Association conference, New York, NY, United States.
- Mantell, J. T., **Hancock, K.**, **Dirmeyer, K.**, & **Graham, A.** (2019, March). *The elusive influences of rhythmically varying tones on speech perception* [Poster session]. Eastern Psychological Association conference, New York, NY, United States.
- Mantell, J. T., **Faubion, R.**, & **Madden, H.** (2018, November). *The influence of tonal pitch on the identification of brief musical excerpts* [Poster session]. Psychonomic Society annual meeting, New Orleans, LA, United States.

- Foster, N. L., Mantell, J. T., & **Azimi Vahdat, M. M.** (2018, November). *Measuring the vigilance decrement under divided attention* [Poster session]. Psychonomic Society annual meeting, New Orleans, LA, United States.
- Koenig, C., Foster, N., Mantell, J. T., & Bailey, A. (2018, November). *CUR Transformations Project* [Poster session]. Council on Undergraduate Research Transformations Project Year 2 Collaboration Meeting, College of New Jersey, Ewing, NJ, United States.
- Thompson, R.**, & Mantell, J. T. (2018, March). *What's That Song Again? The Influence of pitch memory on singing accuracy* [Poster session]. Eastern Psychological Association conference, Philadelphia, PA, United States.
- Burr, E. M.**, & Mantell, J. T. (2017, November). *Overparenting, autonomy support, and locus of control in emerging adulthood* [Poster session]. Society for the Study of Emerging Adulthood 8th Biennial Conference, Washington, D. C., United States.
- Brady, A. M., Elliott, S., and Mantell, J. T. (2017, August). *Real-time interactive technology in the classroom* [Presentation]. Teaching Excellence Workshop, St. Mary's College of Maryland, St. Mary's City, MD, United States.
- Solomon, R. J.**, **Holmes, L. E.**, & Mantell, J. T. (2017, April). *Alpha and beta brain wave responses to aversive and neutral auditory stimuli in misophonic and neurotypical participants* [Poster session]. Lehigh Valley Association of Independent Colleges Undergraduate Psychology Research Conference, Allentown, PA, United States.
- Mantell, J. T., **Forrester-Fronstin, Z.**, **McCarthy, M. K.**, & **Hancock, K. P.** (2016, November). *Vocal pitch production accuracy of steady tones and bends* [Poster session]. Psychonomic Society annual meeting, Boston, MA, United States.
- Pruitt, T. A., Pfordresher, P. Q., Mantell, J. T., **Wright, M. D.** (2015, November). *Intentional and incidental vocal pitch imitation during speech and song* [Poster session]. Psychonomic Society annual meeting, Chicago, IL, United States.
- Mantell, J. T., **Tapley, K. M.**, **Forrester-Fronstin, Z.**, & **Greenberg, S. T.** (2015, August). *Time to target: An informative and underutilized measure of vocal pitch accuracy* [Poster session]. Society for Music Perception and Cognition conference, Nashville, TN, United States.
- Pfordresher, P. Q., Mantell, J. T., Pruitt, T. A., **Wright, M. D.**, & **Tapley, K. M.** (2015, August). *Accuracy, intent, and signal clarity in vocal production* [Poster session]. Society for Music Perception and Cognition conference, Nashville, TN, United States.
- Peditto, K.**, & Mantell, J. T. (2015, March). *Effects of keypad layout on number entry in infusion pumps* [Poster session]. Applied Ergonomics conference, Nashville, TN, United States. Poster session also presented at Human Factors and Ergonomics in Healthcare conference in Baltimore, MD, April, 2015.
- Mantell, J. T. (2014, September). *Life is flux: Visualizing change in art and biology* [Invited presentation]. Faculty panel (C. Cash, E. Leininger, R. Archer, & A. Paucarmayta, curators), Boyden Gallery, St. Mary's College of Maryland, St. Mary's City, MD, United States.
- Large, N. R., Mantell, J. T., & Sawusch, J. R. (2012, November). *Attentional grouping affects rate normalization: Priority of speech over nonspeech precursors* [Poster session]. Psychonomic Society annual meeting, Minneapolis, MN, United States.
- Pfordresher, P. Q., & Mantell, J. T. (2012, November). *Self-imitation and the role of inverse models in poor-pitch singing* [Conference presentation]. Psychonomic Society annual meeting, Minneapolis, MN, United States.
- Mantell, J. T. (2012, April). *The bounds of vocal imitation* [Invited presentation]. University at Buffalo Cognitive Psychology Brownbag series, Buffalo, NY, United States.
- Pfordresher, P. Q., Tilton, A., Mantell, J. T., & Brown, S. (2011, August). *Singing with yourself: Assessing the influence of self-similarity and prototypicality in vocal imitation* [Conference presentation]. Society for Music Perception and Cognition conference, Rochester, NY, United States.
- Mantell, J. T., Pfordresher, P. Q., & **Schafheimer, B.** (2011). *Automatic imitation of pitch in speech but not song* [Poster session]. Society for Music Perception and Cognition conference, Rochester, NY, United States.
- Wisniewski, M. G., Mantell, J. T., & Pfordresher, P. Q. (2011, August). *Transfer effects in the vocal imitation of speech and song* [Poster session]. Society for Music Perception and Cognition conference, Rochester, NY, United States.

- Mantell, J. T. (2011). *Cognition extended: Or, how to future proof cognitive science* [Invited presentation]. University at Buffalo Cognitive Psychology Brownbag series, Buffalo, NY, United States.
- Mantell, J. T., & Sawusch, J. R. (2010, November). *Nonspeech rate information influences speech perception, but proximity counts* [Conference presentation]. Ninth Annual Auditory Perception, Cognition, and Action Meeting, St. Louis, MO, United States.
- Mantell, J. T. (2010, September). *Pitch detection: Peaks and troughs through time* [Invited presentation]. University at Buffalo Cognitive Psychology Brownbag series, Buffalo, NY, United States.
- Mantell, J. T., & Pfordresher, P. Q. (2010, August). *Modular processing? Phonetic information facilitates speech and song imitation* [Conference presentation]. Eleventh International Conference on Music Perception and Cognition, Seattle, WA, United States.
- Pfordresher, P., Cox, J., Andrews, M., Mantell, J., Brown, S., & Zivadinov, R. (2010, April). *Neural stratification of sequencing and timing in auditory feedback? An fMRI study* [Poster session]. Cognitive Neuroscience Society annual meeting, Montreal, Quebec, Canada.
- Mantell, J. T. (2009, November). *Can nonspeech rate information really influence speech perception?* [Invited presentation]. University at Buffalo Cognitive Psychology Brownbag series, Buffalo, NY, United States.
- Mantell, J. T., & Pfordresher, P. Q. (2009, August). *Vocal imitation of speech and song: Effects of phonetic information and temporal regularity* [Conference presentation]. Society for Music Perception and Cognition conference, Indianapolis, IN, United States.
- Mantell, J. T. (2009, March). *The influence of acoustic-phonetic information on the imitation of speech and song* [Presentation]. ESM/UR/Cornell/UCIS Music Cognition Symposium, Rochester, NY, United States.
- Pfordresher, P. Q., & Mantell, J. T. (2009, March). *Vocal imitation of speech and song: Individual differences and the role of articulation* [Invited presentation]. University at Buffalo Center for Cognitive Science colloquium, Buffalo, NY, United States.
- Mantell, J. T. (2008, December). *Vocal imitation of speech and song* [Invited presentation]. University at Buffalo Cognitive Psychology Brownbag series, Buffalo, NY, United States.
- Mantell, J. T., & Pfordresher, P. Q. (2008, November). *Vocal imitation of speech and song* [Poster session]. Seventh Annual Auditory Perception, Cognition, and Action Meeting, Chicago, IL, United States.
- Bunnell, H. T., Mantell, J. T., & Polikoff, J. B. (2006, November). *Database size and naturalness in concatenative speech synthesis* [Poster session]. Fourth Joint Meeting of the Acoustical Society of America and the Acoustical Society of Japan, Honolulu, HI, United States.

Publications

Bold indicates former or current undergraduate colleague.

- Bailey, A., **Grzymalski, S.**, Mantell, J., **Payne, Z.**, **Rhonehouse, A.**, & **Washington, J.** (2025). Swipe right on data: It's the hottest skill you can learn! *Psychology Student Network*, 13(2). <https://www.apa.org/ed/precollege/psn/2025/09/data-skill-career>
- Mantell, J., & Bailey, A. (2025, August 17). 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>
- Bailey, A., & Mantell, J. (2025, March 18). Undergraduate psychology programs should teach advanced data science skills. *Psychology Teacher Network*. <https://www.apa.org/ed/precollege/psychology-teacher-network/introductory-psychology/undergraduate-advanced-data-science>
- Thompson, R. M.**, & Mantell, J. T. (2024). The influences of familiarity and key on pitch accuracy in singing. *Musicae Scientiae*, 28(2), 375-387. <https://doi.org/10.1177/10298649231207706>
- Bailey, A. M., Fernandez, G. M., & Mantell, J. T. (2024). Optimizing resources: Applying quantitative resource analysis to facilitate resource-neutral curricular reform. *Scholarship of Teaching and Learning in Psychology*, 10(3), 331-336. <https://doi.org/10.1037/stl0000302>

- Faubion-Trejo, R. N., & Mantell, J. T. (2022). The roles of absolute pitch and timbre in plink perception. *Music Perception*, 39(3), 289-308. <https://doi.org/10.1525/mp.2022.39.3.289>
- Pfordresher, P. Q., Mantell, J. T., & Pruitt, T. A. (2022). Effects of Intention in the imitation of sung and spoken pitch. *Psychological Research*, 86, 792-807. <https://doi.org/10.1007/s00426-021-01527-0>
- Mercado, E., Mantell, J. T., & Pfordresher, P. Q. (2014). Imitating sounds: A cognitive approach to understanding vocal imitation. *Comparative Cognition & Behavioral Reviews*, 9, 17-74. <https://doi.org/10.3819/ccbr.2014.90002>
- Pfordresher, P. Q., & Mantell, J. T. (2014). Singing with yourself: Evidence for an inverse modeling account of poor-pitch singing. *Cognitive Psychology*, 70, 31-57. <https://doi.org/10.1016/j.cogpsych.2013.12.005>
- Pfordresher, P. Q., Mantell, J. T., Brown, S., Zivadinov, R., & Cox, J. L. (2014). Brain responses to altered auditory feedback during musical keyboard production: An fMRI study. *Brain Research*, 1556, 28-37. <https://doi.org/10.1016/j.brainres.2014.02.004>
- Mantell, J. T., & Pfordresher, P. Q. (2013). Vocal imitation of song and speech. *Cognition*, 127(2), 177-202. <https://doi.org/10.1016/j.cognition.2012.12.008>
- Wisniewski, M. G., Mantell, J. T., & Pfordresher, P. Q. (2013). Transfer effects in the vocal imitation of speech and song. *Psychomusicology: Music, Mind and Brain*, 23(2), 82-99. <https://doi.org/10.1037/a0033299>
- Liu, F., Jiang, C., Pfordresher, P. Q., Mantell, J. T., Xu, Y., Yang, Y., & Stewart, L. (2013). Individuals with congenital amusia imitate pitches more accurately in singing than in speaking: Implications for music and language processing. *Attention, Perception, & Psychophysics*, 75, 1783-1798. <https://doi.org/10.3758/s13414-013-0506-1>
- Pfordresher, P. Q., & Mantell, J. T. (2012). Effects of altered auditory feedback across effector systems: Production of melodies by keyboard and singing. *Acta Psychologica*, 139(1), 166-177. <https://doi.org/10.1016/j.actpsy.2011.10.009>
- Mantell, J. T., & Pfordresher, P. Q. (2010). Modular processing? Phonetic information facilitates speech and song imitation. In S. M. Demorest, S. J. Morrison, & P. S. Campbell (Eds.), *Proceedings of the 11th International Conference on Music Perception and Cognition* (pp. 338-339).
- Pfordresher, P. Q., Cox, J. L., Andrews, M., Mantell, J. T., Brown, S., & Zivadinov, R. (2010). Neural stratification of sequencing and timing? An fMRI study. *Journal of Cognitive Neuroscience, Supplement*, 190.
- Pfordresher, P. Q., & Mantell, J. T. (2009). Singing as a form of vocal imitation: Mechanisms and deficits. In J. Louhivuori, T. Eerola, S. Saarikallio, T. Himberg, & P.-S. Eerola (Eds.), *Proceedings of the 7th Triennial Conference of European Society for the Cognitive Sciences of Music*, (pp. 425-430). <https://jyx.jyu.fi/handle/123456789/20911>
- Bunnell, H. T., Schanen, C. N., Vallino, L. D., Morlet, T. G., Polikoff, J. B., Driscoll, J. D., & Mantell, J. T. (2007). Speech perception in children with speech sound disorder. *Proceedings of INTERSPEECH-2007*, (pp. 422-425). https://www.isca-speech.org/archive/interspeech_2007/bunnell07_interspeech.html

Grants and Collaborations

National Science Foundation: Improving Undergraduate STEM Education (7/2023—6/2026)

Amount awarded: \$297,988

Developing Modernized Data Science Instruction in Psychology Curricula

Role on project: Principal Investigator (with co-PI Aileen Bailey, St. Mary's College of Maryland)

Description: This project aims to develop, assess, and share psychology-based data science course materials for undergraduate education. The outcomes will empower educators and learners to adapt evidence-based data science content that has the potential to dramatically increase undergraduate students' readiness for academic and professional success in a dynamic, information-rich world.

Association of American Colleges & Universities 2025-2026 Institute on AI, Pedagogy, and the Curriculum

Role on project: Proposal lead and institute participant

Collaborated with faculty (Aileen Bailey, Haley Galloway) and administration (Randy Larsen, Sahar Shafqat, Sam Elliott) to develop an institutional plan to develop adoption strategies for Open Educational Resources and AI resources.

Association of American Colleges & Universities 2021 Institute on High-Impact Practices and Student Success

Role on project: Team lead and institute participant

Collaborated with department faculty (Jennifer Tickle, Gina Fernandez, Scott Mirabile) and institutional administration (Christine Wooley) to develop a departmental strategy to implement, maintain, assess, and diversify HIP research experiences within the psychology program.

SMCM ORSP NIH BRAD Incentive Recipient (2020)

Role on project: Collaborator/Participant

Grateful acknowledgement to award source: Sabine Dillingham, National Institutes of Health:

Biomedical/Biobehavioral Research Administration Development

Support received: Professional external mentoring, consultation, and review of our grant proposal.

Partnered with Aileen Bailey to propose a curricular development project that will culminate in a 2020 external grant submission. The goal of the grant was to acquire funding to design new course experiences that will enhance psychology and neuroscience students' training in data science.

Council on Undergraduate Research Transformations Project (funded by NSF; 2017-2020)

Role on project: Psychology Department Consultant and Co-Chair

Worked with select faculty from departments of psychology and chemistry and biochemistry, and with college administration (notably Sabine Dillingham and Adam Malisch), to develop a proposal to enhance the psychology department's undergraduate research curriculum. Continued work with other department consultants to expand research opportunities in our undergraduate curriculum.

The Patuxent Partnership: A STEM Workforce Development and Recruitment system (2017-2018)

Amount awarded: \$20,000 (\$10,000 for each researcher)

Project title: Divided Attention

Role on project: Psychology Department Consultant

Collaborated with research partner Nathan Foster and undergraduate researchers; conducted empirical project to enhance understanding of the effects of auditory and visual distractions on cognitive, perceptual, and motor task performance in an applied setting.

SMCM/NAWCAD (Naval Air Warfare Center, Aircraft Division) Cooperative Agreement (2016-2018)

NAWCAD-BAA-033116

Role on project: Collaborator/Participant

This cooperative agreement, authored by Sabine Dillingham, fostered research and educational program development for research collaborations and workforce development.

National Science Foundation: Perception, Action & Cognition

Collaborative Research: Imitative mechanisms for music and language (2015-16)

Role on project: Principal Investigator (with lead-PI Peter Pfordresher, University at Buffalo)

Amount requested (SMCM): \$89,742 (*submitted twice without success*)

St. Mary's College of Maryland Grants

2025—2026: Center for Inclusive Teaching & Learning Curriculum Innovation Grant for costs associated with AAC&U Institute on AI, Pedagogy, and the Curriculum. Amount awarded: \$2,400

2019—2020: Faculty Development Grant for travel costs associated with presentations at the CUR Biennial 2020 meeting. Amount awarded: \$1,010

2016—2017: Faculty Development Grant to purchase MATLAB software to enhance my research. Amount awarded: \$1,480

Service and Professional Membership

Council on Undergraduate Research:	2021—
Psychology Division Representative & Councilor	
The Psychonomic Society	2014—
The Society for Music Perception and Cognition	2009—
Eastern Psychological Association	2017
Nu Rho Psi, National Honor Society in Neuroscience	2015
Psi Chi, International Honor Society in Psychology	2004

Peer-Review

Journal (alphabetical order)	Year of initial work
Behavioral Sciences	2021
Behavior Research Methods	2023
Brain Sciences	2021
Journal of Intelligence	2023
Journal of the Acoustical Society of America	2019
Languages	2021
Memory & Cognition	2013
Music Perception	2015
Musicae Scientiae	2023
Psychology Press (book)	2014
PLOS One	2017
Routledge Research (book proposal)	2018
Scientific Reports	2018

Service within the Psychology Department at St. Mary's College of Maryland

Department role or committee		Semester
Chair of the department	chair	F23—
PSYC 204/206 development team	member	F24—
Faculty mentoring committees	mentor	S17—
Student research funding committee	member	F23—
Event planning committee	member	F23—
Assessment committee	member and chair	F16—S20; F21—
Search committee (culture & community)	chair	F24—S25
Search committee (open area lecturer)	chair	F24—S25
Statistical software committee (transition team)	member and co-chair	F21—S24
Ad hoc PSYC 204/206 development group	chair	F19—S24
Search committee (psyc/neur visitor)	chair	S24
Search committee (developmental)	chair	F23
Search committee (open area visitor)	chair	F23
Program Evaluation Committee	member and chair	F21, S22, F23, S24
Assistant Chair of the department		F22—S23
Search committee (two open area visitors)	member	S23
Search committee (behavioral neuroscience)	member	F22
Search committee (open area; visitor)	member	S22
Search committee (cognitive)	member	F21
Statistics and methods sequence assessment	coordinator	F19—F22

Council for Undergraduate Research	member and co-chair	S17—S20
Transformations Project leadership team		
Teaching values committee	member	S19—F19
Department self-study curriculum committee	member	F17—S19
Search committee (developmental; visitor)	member	S19
Service values committee	member	F18
Lecture series committee	member	S17—S18
SMP statistics consultant	instructor/consultant	AYs 16-17, 17-18, 19-20
Search committee (social)	member	F17
Psychology writing group	co-founder and member	F16—F18
Search committee (developmental; visitor)	member	Su16
Psi Chi (honor society)	faculty advisor	F15—S18
Human Factors Pre-proposal committee	member	Su15
SMP award committee	member	S15, 17, 18, 21, 22
SPSS manual development & review	member	F14

Service for St. Mary's College of Maryland

College role, committee, or event		Semester
University System of Maryland Transfer Council, Psychology Workgroup	member	F23—
Data Science steering committee	member	F22—
Neuroscience steering committee	member	S14—
Educational Studies Program Evaluation Committee	member	S25
Performing Arts Program Evaluation committee	member	S24
SMCM MSCHE Self-Study: Educational Effectiveness Assessment Work Group	member	F23—S25
Seahawk Undergraduate Research Fellowship (SURF)	co-director	Su23
SOAR Advising	advisor	Su23
Integrated Inquiry: Meaning of Music	co-developer; coordinator; member	F18—S24
Neuroscience Program Evaluation Committee	member	F21, S23, F23, S24, S25
Southern Maryland Brain Bee	director; co-director	F17—S20, S22, S23, S24
College Evaluation Committee	member	F22—S23
Neuroscience Program Assessment Committee	member	F21
CORE 101 writing program	member	Su21—F21
Performing Arts Major workgroup	consultant	Su21
Applied Data Science Program Committee	member	S21—F22
Junior Science & Humanities Symposium	reviewer	S20
Academic Planning Committee	member	F15—S20
CORE 101 writing pilot program	member	Su19—F19
Inclusive & Innovative Instruction Conference	co-presenter	F19
Teaching Excellence Workshop	co-presenter	F17
DeSousa-Brent Scholars summer bridge	instructor	Su17
COACHE survey implementation team	member	F16—F17
Faculty mentoring cohort	faculty mentor	F16—S18; F23—F24

Undergraduate Research Supervision

(SMP = St. Mary's Project, a senior thesis capstone project)

Student	Research	Semester
Nicholas Haylock	SMP	F25—
Colin VanBronkHorst	SMP	S25 & S26
Sarah Halle Sinks	SMP: Social Perceptions of Disability: Exploring the Role of Presence and Type of Disability on Social, Romantic, and Sexual Perceptions	F25
Ameera Zobayer	SMP: Effects of sounds on patients' multiple physiological responses	F24—S25
Conor O'Callaghan	SMP: Context dependent memory and the interaction of familiarity and lyrical presence within background music	F24—S25
Thomas Brennan	SMP: The works of working memory: How working memory is impacted by sleep quality and test anxiety	F24—S25
Austin Graham	SMP: Mental imagery in sports: Exploring the PETTLEP model of imager in a soccer penalty kick task	S24—F24
Madeleine Carter	SMP: Mindfulness interventions: A therapeutic alternative	S24—F24
Charlie Albertson	SMP: The workspace dilemma: Understanding productivity in in-person and digital environments	F23—S24
Cait Jones	SMP: Stuck on replay: The effect of cognitive and motor suppression measures on involuntary musical imagery	F23—S24
Jonathan Parsons	SMP: The influence of music on cognitive tasks	F23—S24
Isaac Baker	SMP: Climate change communication: How framing and valence impact skepticism and efficacy	F22—S23
Beth Mlinek	SMP: The effect of tempo and valence on the perception of emotion in ambiguous human faces	F22—S23
Ashley Tyler	SMP: Mindful self-compassion: The effects of one session of meditation on self-compassion	F22—S23
Jordan Bailey	SMP: Genre classification, music perception, and preference	F21—S22
Aubrey Bacon	SMP: The Stroop effect in the Chinese Language: How does the Stroop effect vary at different levels of Chinese language comprehension?	S21—F21
Alex Rennich	SMP: Clothing preferences, social identity, and peer pressure	F19—S20
Jay Hammett	SMP: Does action-based performance affect visual perception?	F19—S20
Noah Lincoln	SMP: Examining the chronic and cumulative effects of repeated mild traumatic brain injury	F19—S20
Rachel Thompson	SMP: Singing to learn: How pitch information facilitates encoding and retrieval	F18—S19
Kallan Dirmeyer	SMP: Linguistic modulation of color sensitivity	F18—S19
Kayla Ross	SMP: The role of language on color perception	S18—F18
Minjee Kim	SMP: The effect of music genre on perceived objective physical attractiveness: Physiological arousal as a possible mediator	F17—S18
Anna Matullo-Miller	SMP: The efficacy of local and nationwide programs that work with child maltreatment	F17—S18
Rachel Thompson	St. Mary's Undergraduate Research Fellow (SURF): The ability to sing in key—How we process pitch	Su17

Emily Burr	SMP: Overparenting, autonomy support, and locus of control in emerging adulthood	F16—S17
Gillian Justice	SMP: Comfort Animals in Research, history, and policy at St. Mary's College of Maryland	F16—S17
Ian Winston	SMP: Pitch and timbre interactions	Su14—S16
Jacob Lowenthal	SMP: The effects of unattended music on reading fluency and comprehension: Manipulating controlled musical stimuli through tempo and harmonic complexity	F15—S16
Carmen Condelli	SMP: Singing and foreign language learning: Relationships with accent imitation skills	F15—S16
Kati Peditto	SMP: Effects of keypad layout on number entry in infusion pumps.	Su14—S15
Crimson Ervin	Directed Research	S26—
Julia Gaevsky	Directed Research	S26—
Wesley Smith	Directed Research	S26—
Caroline Holloway	Directed Research	F25—
Kaylee Holston	Directed Research	F25—
Laila Mitchell	Directed Research	F25—
Amelia Rhonehouse	NSF IUSE Grant Research Student	Su24—
Zach Payne	NSF IUSE Grant Research Student	Su24—
Raven Davis	Directed and Collaborative Research	F24—S25
Elizabeth Poissant	Directed and Collaborative Research	F24—S25
Colin Vanbrunhorst	Directed and Collaborative Research	F24—S25
Jonathan Parsons	Directed Research	S24
Sadie Grzymalski	NSF IUSE Grant Research Student	Su23-SP25
Jayden Washington	NSF IUSE Grant Research Student	Su23-SP25
Carla Wilson	Directed and Collaborative Research	S22—S23
Isaac Baker	Collaborative Research	S23
Jordan Bailey	Directed Research	S22
James Atwell	Directed Research	F21—F22
Meara Johnson	Directed Research	F21—F22
Joshua Gilbert	Directed Research	F21
Ray Steelman	Directed Research	F18—F20
Erika Blair	Directed Research	S19—S20
Eduardo Elias	Directed Research	S19
Maria Campanile	Directed Research	F18
Ariel Graham	Directed Research	F18—F19
Rachel Thompson	St. Mary's Undergraduate Research Fellowship; Directed Research	Su17—S19
Mohammad Vahdat	Directed Research	F17—S18
Angel Tse	Directed Research	F17
Hannah Madden	Directed Research	F17—F18
Rebecca Faubion	Directed Research	F17—S19
Kallan Dirmeyer	Directed Research	S17—S19
Kelsey Hancock	Directed Research	S16—S18
Zoey Forrester-Fronstin	Directed Research	F14—S17
Rachel Solomon	Directed Research	F16—S17
Lara Holmes	Directed Research	F16—S17
Mary McCarthy	Directed Research	F15—S16
Sam Greenberg	Directed Research	F14—S15

Keri Tapley	Directed Research	S14—S15
Nicolas Gay	Directed Research	S14

Awards and Honors

College of Arts and Sciences Dean's Scholar University at Buffalo, The State University of New York	2007 – 2011
International Conference on Music Perception and Cognition ICMPC11 Young Researcher Award: <i>Honorable Mention</i>	2010
Society for Education, Music and Psychology Research (SEMPRE) Merit-Based Travel Award	2010
Society for Music Perception and Cognition (SMPC) Merit-Based Travel Award	2009
Magna Cum Laude Graduate Honors College, Millersville University	2005
Graduation with Honors in Psychology Millersville University	2005
Outstanding Senior Psychology Major Award Millersville University	2005
Outstanding Junior Psychology Major Award Millersville University	2004