

TAYLOR MARCUS, PH.D.

DEPARTMENT OF PSYCHOLOGY

TULANE UNIVERSITY

CONTACT: TMARCUS2@TULANE.EDU

ACADEMIC APPOINTMENTS

Professor of Practice

Tulane University, Neuroscience

2026- Present

Research Affiliate

Tulane University, Neuroscience

Mentor: Dr. Benjamin Deen, Ph.D

2026- Present

Postdoctoral Research Associate

Tulane University, Neuroscience

Mentor: Dr. Benjamin Deen, Ph.D

2025-2026

EDUCATION

PhD Tulane University, Neuroscience

Mentor: Dr. Julie Markant, Ph.D

May 2025

BS Louisiana State University, Biological Sciences

Ogden Honors College

May 2018

BS Louisiana State University, Psychology

Ogden Honors College

May 2018

HONORS AND AWARDS

LSU Academic Nonresident Award

2014

RESEARCH EXPERIENCE

Postdoctoral Research Fellow, Tulane University, New Orleans, LA 2025 to present

Advisor: Dr. Benjamin Deen

- Projects:
 - Mechanisms of identity-based social memory and attention prioritization
- Role: Manage all aspects of independent and collaborative research projects using behavioral measures, and functional magnetic resonance imaging (fMRI) methods. Develop study protocols and data processing pipelines. Coordinate and oversee research assistants' roles in recruitment, data collection and processing.

Graduate Student, Tulane University, New Orleans, LA

2020 to 2025

Advisor: Dr. Julie Markant

- Projects:
 - fNIRS Studies of Attention and Learning Across Development
 - Attention, Learning, and Memory in Adulthood
 - Longitudinal Investigation of Endogenous and Social-Motivational Predictors of Attention to Caregivers in Infancy
- Role: Manage all aspects of independent and collaborative research projects using behavioral measures, eye tracking and functional near-infrared spectroscopy (fNIRS) methods. Develop study protocols and data processing pipelines. Coordinate and oversee research assistants' roles in recruitment, data collection and processing.

TAYLOR MARCUS, PH.D.

DEPARTMENT OF PSYCHOLOGY

TULANE UNIVERSITY

CONTACT: TMARCUS2@TULANE.EDU

Clinical Research Coordinator, Tulane University, New Orleans, LA 2019 to 2020

Advisor: Dr. Katherine Mills

- Projects:
 - Sodium Lowering and Urinary Protein Reduction (SUPER) Trial
 - Vascular Effects of Dietary Sodium Reduction in Patients with Chronic Kidney Disease (SOLVE) Trial
- Role: Managed all aspects of the SUPER and SOLVE clinical trials, developed an in-depth knowledge of protocol requirements and good clinical practices. Acted as the liaison between patient, investigator, collaborators, IRB and sponsor. Responsible for recruitment, data collection, entry and quality control activities and ensured protocol compliance and patient monitoring.

Clinical Protocol Technician, Tulane University, New Orleans, LA 2018 to 2019

Advisor: Dr. Jiang He

- Projects:
 - Chronic Renal Insufficiency Cohort
 - Low-Carbohydrate Dietary Pattern on Glycemic Outcomes Trial
 - Sodium Lowering and Urinary Protein Reduction Trial
 - Vascular Effects of Dietary Sodium Reduction in Patients with Chronic Kidney Disease
- Role: Responsible for conducting the physiological assessments, lab testing and recruitment of participants for several active clinical research studies in the Tulane Office of Health Research.

Laboratory Assistant, Baton Rouge LA 2017 to 2018

Advisor: Dr. Brant Faircloth

- Project:
 - Genome Assemblies for Two Neotropical Trees: *Jacaranda copaia* and *Handroanthus guayacan*
- Role: Assist in evolutionary biology research efforts. Updated GenBank databases, isolated and quantified DNA samples, and prepare DNA libraries of various organisms.

Research Assistant, Baton Rouge LA 2015 to 2017

Advisor: Dr. George Noell

- Projects:
 - Promoting Literacy Development in the Early Childhood Classroom
 - Teaching children with autism to tie their shoes using video prompt-models and backward chaining.
- Role: Responsible for conducting data collection and processing for various research studies in the lab.

TEACHING EXPERIENCE

Courses Taught at Tulane University

Professor of Record

NSCI/PSYC 3300

Brain and Behavior

Summer 2024

NSCI/PSYC 3300

Brain and Behavior

Summer 2025

Relevant Training

Tulane University, New Orleans, LA

Fall 2023

Graduate Pedagogy Program

TAYLOR MARCUS, PH.D.

DEPARTMENT OF PSYCHOLOGY

TULANE UNIVERSITY

CONTACT: TMARCUS2@TULANE.EDU

- Three-Semester Graduate Pedagogy Program designed to train and prepare graduate students to be an instructor of record.
 - CELT 7010 The Essentials of Teaching & Learning: Completed Spring 2022
 - CELT 7020 Practical Course Design & Teaching Skills: Completed Fall 2022
 - CELT 7030 Teaching Practicum: Completed Spring 2023

PUBLICATIONS

King, J., **Marcus, T.**, & Markant, J. *Individual differences in selective attention and engagement shape students' learning from visual cues and instructor presence during online lessons.* Sci Rep 13, 5075 (2023). <https://doi.org/10.1038/s41598-023-32069-7>.

Journal Papers in Preparation

Marcus, T., Wood, A., Hunter, B.K. & Markant, J. (submitted). *Distinct attention capture for self and familiar faces in visual search.*

Markant, J. & **Marcus, T.** (in press). Developmental trajectories of attention. In D. Amso (Ed.), *Oxford Handbook of Infant Attention, Memory, and Learning*. Oxford University Press.

Tholen, K., Mainero, B., **Marcus, T.**, & Markant, J. (in preparation). *Differential effects of working memory on attention capture among musicians and non-musicians.*

Marcus, T., Hodel, A., Thomas, K.M., & Markant, J. (in preparation). *Inhibition of return at 7 months predicts inhibitory control in early childhood.*

Marcus, T., King, J., & Markant, J. (in preparation). *Attending to visual cues and peer videos differentially affects college students' learning during online lessons.*

PRESENTATIONS AND INVITED LECTURES

Peer-Reviewed Presentations

Marcus, T., King, J., & Markant, J. (2025, November). *Gaze entropy as a tool for understanding attention in complex learning environments.* Poster accepted to the Society for Neuroscience Annual Meeting, San Diego, CA.

Marcus, T., Wood, A., Hunter, B.K. & Markant, J. (2024, October). *The role of reward and familiarity in the self-face bias: insights from behavioral and neuroimaging measures.* Poster presented at the Society for Neuroscience Annual Meeting, Chicago, IL.

Marcus, T., Montgomery, B. Markant, J. (2024, October). *Social network size shapes infants' attention bias for strangers over caregivers at 4 months of age.* Poster and flash talk accepted to the International Society for Developmental Psychobiology, Chicago, IL.

- ISDP Student/Postdoc Member Travel Award Recipient

Montgomery, B., **Marcus, T.**, Markant, J. (2024, October). *Individual differences in endogenous attention control relate to attention orienting biases to caregiver versus stranger faces at 4 months of age.* Poster accepted to the International Society for Developmental Psychobiology, Chicago, IL.

- ISDP Student/Postdoc Member Travel Award Recipient

TAYLOR MARCUS, PH.D.

DEPARTMENT OF PSYCHOLOGY

TULANE UNIVERSITY

CONTACT: TMARCUS2@TULANE.EDU

Brown, K., **Marcus, T.**, Markant, J. (2024, October). *Focused attention and eye movement control as measures of developing endogenous attention control in infancy*. Poster accepted to the International Society for Developmental Psychobiology, Chicago, IL.

Marcus, T., Montgomery, B. Markant, J. (2024, March). *Infant's attention biases towards caregivers vs. strangers reflect social network size*. Poster presented at the Cognitive Developmental Society, Pasadena, CA.

Marcus, T., Wood, A., Hunter, B.K. & Markant, J. (2024, March). *Attention is biased to the self-face: investigating the roles of reward and familiarity*. Poster presented at the Society for Affective Science, New Orleans, LA.

Marcus, T., Wood, A., Hunter, B.K. & Markant, J. (2023, November). *Attention is biased to the self-face in an attention capture task: Investigating the role of social reward*. Poster presented at the Psychonomics Society Annual Meeting, San Francisco, CA.

Marcus, T., King, J., & Markant, J. (2023, November). *Visual cues and peer videos differentially affect college students' looking behaviors and learning during online lessons*. Poster presented at the Psychonomics Society Annual Meeting, San Francisco, CA.

Marcus, T., King, J., & Markant, J. (2022, November). *Attending to visual cues and peer videos differentially affects college students' learning during online lessons*. Poster presented at the Psychonomics Society Annual Meeting, Boston, MA.

Selected Local/Non-Peer Reviewed Presentations

Marcus, T. (2024, November). *Investigating the self-face bias*. Presentation at the Tulane 3-Minute Thesis competition.

- People's Choice Award

Marcus, T. (2024, November). *Social Network Size Shapes Infants' Attention Bias for Strangers over Caregivers*. Presentation at Tulane DUNNK.

Liu, Q., **Marcus, T.** (2024, October). *2024 Chapters Workshop: GNOSN Seminar Series Coordination*. Invited presentation at the Society for Neuroscience, Chicago, IL.

Marcus, T. (2024, March). *Investigating the Role of Reward and Familiarity in Attention Biases to the Self-Face*. Presentation at the Tulane Brain Institute Retreat, New Orleans, LA.

- 2nd Place Award: Jean Yocum Harlan Award for Outstanding Graduate Student Presentation

Marcus, T., Wood, A., Hunter, B.K. & Markant, J. (2024, March). *Attention is biased to the self-face in an attention capture task: Investigating the role of social reward*. Poster presented at the Greater New Orleans Society for Neuroscience Retreat, New Orleans, LA.

Wood, A., **Marcus, T.**, Hunter, B.K., & Markant, J. (2023, March). *Biased attention orienting to the self-face during an attention capture task*. Poster presented at the Tulane Research, Innovation, and Creativity Summit, New Orleans, LA.

- 2nd Place Award: Presentation by an Undergraduate Student

TAYLOR MARCUS, PH.D.

DEPARTMENT OF PSYCHOLOGY

TULANE UNIVERSITY

CONTACT: TMARCUS2@TULANE.EDU

Marcus, T., King, J., & Markant, J. (2022, November). *Attending to visual cues and peer videos differentially affects college students' learning during online lessons*. Poster presented at the Greater New Orleans Society for Neuroscience Annual Retreat, New Orleans, LA.

Marcus, T. (2022, June). *Attending to visual cues and peer videos differentially affects college students' learning during online lessons*. Presentation at the Greater New Orleans Society for Neuroscience, New Orleans, LA.

Marcus, T. (2022, September). *Investigating the role of motivational salience in online learning environments*. Presentation at Tulane DUNNK, New Orleans, LA.

PROFESSIONAL AFFILIATIONS

Society for Neuroscience	2024- Present
International Society for Developmental Psychobiology	2024-Present
Society for Research in Child Development	2022- Present
Psychonomic Society	2021- Present
Greater New Orleans Society for Neuroscience	2020- Present

PROFESSIONAL SERVICE

Operations Lead, Nucleate New Orleans 2025- 2026

Seminar Co-Organizer, Greater New Orleans Society for Neuroscience 2022- 2025

PhD Training Committee Student Representative, Tulane University Neuroscience Program 2023- 2025

Reviewer

Behavioral Neuroscience

Cognition

Consciousness and Cognition

Developmental Cognitive Neuroscience

Developmental Psychology

Psychological Review