

JACOB B. FEILER, PH.D.

Department of Psychology
Tulane University
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ACADEMIC APPOINTMENTS

Jul 2023 – Present **Professor of Practice**, Department of Psychology, Tulane University

EDUCATION

Aug 2023 **Ph.D., University of Alabama, Educational Psychology**
Concentration in Educational Neuroscience
Dissertation: *Do Embodied Representations Facilitate Mental Animation of Scientific Spatial Concepts? A Question of “STEMbodiment.”*
Committee: Dr. Jason Scofield (Chair), Dr. Joni Lakin, Dr. Laura Morett, Dr. Beverly Roskos, Dr. Jonathan Wai

May 2023 **Certificate in Quantitative Educational Research**, The University of Alabama

Dec 2022 **M.A. University of Alabama, Educational Psychology**

May 2018 **M.S., University of Colorado – Anschutz Medical Campus**
Capstone: *An fMRI Study Examining Inhibition and Threat Vigilance Among Adolescents with Severe Worry*
Mentor: Benjamin Mullin, PhD

 Certificate in **Anatomical Sciences Teaching**, University of Colorado – Anschutz Medical Campus

July 2014 Post-Baccalaureate Pre-Health Program, The University of Pennsylvania

May 2013 **B.A. University of Richmond**
Major: Political Science
Thesis: *Analyzing the Quality of Care at Virginia’s Hospitals*
Minor: Spanish
Cum Laude

PREVIOUS EMPLOYMENT

2014 – 2016 **Professional Research Assistant, University of Colorado School of Medicine**

HONORS & AWARDS

2023 College of Education Most Outstanding Service by a Graduate Student Award
2020 Educational Psychology Most Outstanding Graduate Student Award
2019 ESPRMC Graduate Research Symposium Outstanding Poster Award (\$600)
2018 MHA Excellence in Teaching Award nominee
2018 MHA Excellence in Service Award nominee

2018	Travel Award, American Association of Anatomists Annual Meeting
2013	Omicron Delta Kappa Salute Award
2012	Golden Key Honor Society
2010	Phi Eta Sigma Honor Society

FELLOWSHIPS

2022 – 2023	University of Alabama Graduate Council Dissertation Fellowship (\$52,374)
2021	University of Alabama College of Education Dean's Summer Research Fellowship (\$3,500)
2020	University of Alabama College of Education Dean's Summer Research Fellowship (\$3,500)
2019 – 2020	University of Alabama Graduate Council Fellowship (\$45,977)

GRANTS AND RESEARCH SUPPORT

Active

R01 HD108325-01A1

National Institute of Health (NICHD)

Total Costs: \$1,941,757

Dates: 4/1/23 – 2/29/28

Description: Longitudinal investigation of endogenous and social-motivational predictors of infants' attention to caregivers

PI: Julie Markant, PhD

Role: Co-Investigator

TECHNICAL SKILLS

- **Data Analysis & Programming Languages:** R, SPSS, MATLAB, Python
- **Stimulus Presentation & Data Collection:** OpenSesame, PsychoPy, Pavlovia, Qualtrics
- **Neuroimaging Techniques:** Functional near-infrared spectroscopy (fNIRS); electroencephalography (EEG); functional magnetic resonance imaging (fMRI)
- **Neuroimaging Analysis Tools:** MATLAB, CONN, SPM12, MarsBaR, WFU_PickAtlas, NIRSLab, Homer2
- **Graphic and Web Design Tools:** Adobe Illustrator, Adobe Photoshop, WordPress, Weebly
- **Quantitative Statistics:** advanced regression; mixed effects; multi-level modeling; psychometrics; ANOVA; t-tests; descriptive statistics
- **Research:** Experimental design, data collection and management; IRB submission process

TEACHING

Teaching portfolio and evaluations are available upon request.

Tulane University, New Orleans, LA

Instructor of Record (* = online)

PSYC 3130, *Experimental Psychology & Lab*, 4 credits (F'23, S'24, SU'24, F'24, S'25, SU'25)

PSYC 1000, *Introductory Psychology*, 3 credits (F'23, SU'24*, F'24, SU'25*)

PSYC 3800, *Cognitive Psychology*, 3 credits (S'24, S'25)

The University of Alabama, Tuscaloosa, AL

Instructor of Record and Course Developer

BEP 220, *Brain, Learning, and Cognition*, 3 credits (F'20, F'21, F'22)

Graduate Teaching Assistant

HD 101, *Introduction to Human Development*, 3 credits (F'19, S'20)

Invited Guest Lecturer, *Memory*, HD 101: *Introduction to Human Development* (S'20)

Invited Guest Lecturer, *Brain & Perceptual Development* (F'19, S'20)

University of Colorado School of Medicine, Aurora, CO

Graduate Teaching Assistant

ANAT 6111, *Human Gross Anatomy* (S'18)

Student Educator Lecture

ANAT 6412, *Histology* - Renal System Lecture (F'17)

ANAT 6412, *Foundations of Teaching* –Educational Neuroscience Lecture (F'17)

Brown University, Providence, RI

Teaching Associate

Neuroscience in Health and Disease, Summer@Brown (SU'19)

Guest Lecture

Neuroscience in Health and Disease, Summer@Brown – Educational Neuroscience
Lecture (SU'17)

RESEARCH MENTORSHIP

Tulane University

Undergraduate Honors Thesis Committee Chair

2024-2025 Lily Jackson

Undergraduate Honors Thesis Committee Member

2024-2025 Alaina Moskowitz

Undergraduate Student Mentorship (Feiler Lab)

F' 2024 – Present Jeremy Stratman

Olivia Meshanko

The University of Alabama

Undergraduate Student Mentorship

S' 2023 AJ Oliffe (Major: Communicative Disorders)

2022 - 2023 Ty Martin (Major: Biology)

S' 2022 Elia Harper (Major: Educational Neuroscience)

2021 – 2022 Jacob Zuluaga (Major: Psychology)

2020 – 2023 Kat Brockman (Major: Educational Neuroscience)

2020 – 2021 Raymond Bulger (Major: Psychology)

2019 – 2020 Edward Liccardo (Majors: Psychology & Computer Science)

PEER-REVIEWED PUBLICATIONS

- Morett, L.M., Feiler, J.B., & Getz, L. (2021). Elucidating the influences of embodiment and conceptual metaphor on lexical and non-speech tone learning. *Cognition*, 222, 105014.
- Feiler, J. B., & Stabio, M. E. (2018). Three pillars of educational neuroscience from three decades of literature. *Trends in Neuroscience and Education*, 13, 17-25. doi: 10.1016/j.tine.2018.11.001
- Feiler, J.B. (2018). An fMRI Study Examining Inhibition and Threat Vigilance Among Adolescents with Severe Worry. In *Proceedings of Experimental Biology 2018 Meeting*, 32(S1), 782. American Association of Anatomists. doi: https://doi.org/10.1096/fasebj.2018.32.1_supplement.782.6

MANUSCRIPTS IN PREPARATION

- Feiler, J.B., *Do Embodied Representations Facilitate Mental Animation of Scientific Spatial Concepts?*
- Feiler, J.B., Scofield, J. *Effects of Embodying Spatial Concepts in Science.*

RESEARCH PROJECTS IN-PROGRESS

- Effects of Embodying Spatial Concepts in Science
- The Effects of Gesture and Embodiment on Lexical Tone Learning using fNIRS

PEER-REVIEWED CONFERENCE ABSTRACTS & PRESENTATIONS

**Denotes mentored undergraduate student*

- Meshanko, O.* , Stratmann, J.* , Feiler, J.B., *Embodying Spatial Concepts: Examining the Impact of Embodied Cognition on Spatial Reasoning in STEM.* (2025, April). Presented at the 2025 Tulane Research, Innovation, and Creativity Summit.
- Feiler, J.B., Scofield, J., Lakin, J. *Impacts of Embodied Representations on Mechanical*
- Lakin, J.M., Man, K., Shi, Q., Feiler, J.B. (2023, April). *Exploring Students' Spatial Thinking Strategies With Mixed-Methods Validity Techniques.* Presented at the 2023 Annual Meeting of the American Educational Research Association (AERA), Chicago, IL.
- Martin, M.T.* , Ciesla, M. A., Feiler, J.B., Morett, L. M. (2023, April 11). *The Effect of Sign Performance on the Acquisition of American Sign Language.* The Undergraduate Research and Creative Activity (URCA) Conference, Tuscaloosa, AL, United States.
- Olliff, A.J.* , Haiman, A., Berheim, S.H., Feiler, J.B. Morett, L.M. (2013, April 11). *The Neural Underpinnings of Lexical Tone Acquisition.* The Undergraduate Research and Creative Activity (URCA) Conference, Tuscaloosa, AL. **[2nd Place, Education Research]**
- Man, K , Lakin, J., Feiler, J.B. *Using Graphical Social Networks to Model Eye Movements in Spatial Reasoning Problems.* Presented at the 2023 annual meeting of the National Council on Measurements in Education.
- Morett, L.M., Feiler, J.B., Getz, L.M. (2022, July). *Pitch Gestures and Comparable Non-Embodied Motion Enhance Lexical and Non-Speech Tone Learning.* Presented at the Annual Meeting of the International Society for Gesture Studies.
- Harper, Elia* , Springer, Sabrina* , Feiler, J.B., & Morett, L.M. (2022, April). *The Relative Effects of Embodied and Non-Embodied Representations on Tonal Language Acquisition.* Presented at The University of Alabama's Undergraduate Research and Creative Activity Symposium, Tuscaloosa, AL. **[2nd Place, Education Research]**

- Bray, M.*, Brockmann, K.A.*, Feiler, J.B., & Morett, L.M. (2022, March). *Cognitive Mechanisms of Lexical Tone Learning*. Presented at the Annual Meeting of the Southeastern Psychological Association.
- Feiler, J.B., Scofield, J. (2021, November). *The Embodiment of Spatial Concepts in Science*. Presented at the Annual Meeting of the Psychonomic Society (Virtual).
- Morett, L.M., Feiler, J.B., Getz, L.M. (2021, November). *Conceptual Metaphor, Embodiment, and Non-Native Lexical Tone Learning*. Presented at the Annual Meeting of the Psychonomic Society (Virtual).
- Feiler, J.B., Scofield, J. (2021, May). *(STEM)bodying Cognition*. Presented at the Annual Meeting for the Association for Psychological Science (Virtual).
- Feiler, J.B., Scofield, J. (2021, April). *(STEM)bodying Cognition*. Presented at the Southeastern University Graduate Research Symposium, Tuscaloosa, AL (Virtual).
- Brockmann, K.A.*, Feiler, J.B., & Morett, L.M. (2021, April). *The Effect of Metaphorical Pitch Gestures on Learning Lexical and Musical Tones*. Presented at The University of Alabama's Undergraduate Research and Creative Activity Symposium, Tuscaloosa, AL. **[Excellence in Research Award]**
- Morett, L.M., Feiler, J.B., & Getz, L. (2021, March). *Effects of conceptual metaphor and embodiment on non-native tone learning*. To be presented at the 67th annual meeting of the Southeastern Psychological Association, Orlando, FL.
- Feiler, J.B., Morett, L.M. (2020, April). *Is it all in the Hands? The Neural Underpinnings of Lexical Tone Learning*, Presented at the Southeastern Universities Graduate Research Symposium, Tuscaloosa, Alabama.
- Liccardo, E*, Feiler, J.B., & Morett, L.M. (2020, April) *The Effects of Gesture on Lexical Tone Learning*. Presented at the University of Alabama's Undergraduate Research and Creative Activity Symposium, Tuscaloosa, Alabama.
- Feiler, J.B., Morett, L.M. (2019, April). *The Neural Underpinnings of Lexical Tone Learning*, Educational Studies in Psychology, Research Methodology, and Counseling Graduate Research Symposium, University of Alabama. **[Outstanding Poster Presentation Award]**
- Linetsky, K., Scofield, J. & Feiler, J.B. (2019, October). *Children's explanations of natural events*. Poster presented at the biennial meeting of the Cognitive Development Society, Louisville, KY.
- Feiler, J.B., Perks E.L., Stabio, M.E., Mullin, B.C (2018, June). *An fMRI Study Examining Inhibition and Threat Vigilance Among Adolescents with Severe Worry*. Annual Spring Pediatric Research Poster Session, Children's Hospital of Colorado.
- Feiler, J.B., Perks E.L., Stabio, M.E., Mullin, B.C. (2018, April). *An fMRI Study Examining Inhibition and Threat Vigilance Among Adolescents with Severe Worry*. American Association of Anatomists/Experimental Biology Annual Meeting, Student/Postdoc Poster Reception in San Diego, CA, 2018.
- Feiler, J.B., Perks E.L., Stabio, M.E., Mullin, B.C. (2018, April). *An fMRI Study Examining Inhibition and Threat Vigilance Among Adolescents with Severe Worry* Modern Human Anatomy Annual Capstone Presentations.
- Feiler, J.B., Perks, E.L., Mullin, B. C. (2018, February). *Relationships between amygdala-based resting state functional connectivity and sleep duration in adolescents with generalized anxiety disorder*. Children's Hospital of Colorado Annual Winter Pediatric Research Poster Session.

- Feiler, J.B., Perks, E.L., Mullin, B. C. (2017, December). *Relationships between amygdala-based resting state functional connectivity and sleep duration in adolescents with generalized anxiety disorder*. Presented at Annual Student Research Forum, CU School of Medicine.

INVITED TALKS & PRESENTATIONS

- Feiler, J.B. (2023). *Spatial Thinking and Embodied Cognition*. Talk presented at the Social Memory Lab, Tulane University, New Orleans, LA.

UNIVERSITY SERVICE

Tulane University, New Orleans, LA

Newcomb-Tulane College

2025-2027 Faculty Principal, NTC Scholars Program

2024 - Present Faculty Member, Newcomb-Tulane College Honor Board

Psychology Department

2023-Present Member and Coordinator of Undergraduate Awards, Undergraduate Studies Committee

2024 Department Website (Re)Design

School of Science and Engineering

2023-Present Member, Curriculum Committee

University of Alabama, Tuscaloosa, AL

2021 Designer & Content Creator, UA Brain Awareness Website (<https://brainawareness.ua.edu>)

2022, 20, 19 Poster Session Judge, Undergraduate Research and Creative Activities Symposium, University of Alabama

2020 Designer, Educational Neuroscience Initiative Website (<https://edneuro.ua.edu>)

University of Colorado – Anschutz Medical Campus, Aurora, CO

2018 Poster Session Judge, Research & Creative Activities Symposium, University of Colorado-Denver, Denver, CO

2018 MSMHA Program Admissions Student Interviewer, University of Colorado - Anschutz Medical Campus, Aurora, CO

PROFESSIONAL SERVICE

Ad-Hoc Reviewer

Journal of Mind, Brain, and Education; Review of Educational Research; Language Learning (Mentored)

Conference Proposal/Abstract Review

2022, 21 APA (Division 15) Convention Proposal and Abstract Reviewer

COMMUNITY SERVICE

New Orleans, LA

2024 QPR Suicide Prevention Training, Tulane University

2024 Category Judge, Greater New Orleans Science & Engineering Fair

Tuscaloosa, AL

- 2022 Volunteer, Embrace Tuscaloosa (UA Day of Service)
2023, 22 Volunteer, STEM Family Night, Tuscaloosa, AL
2022, 21 Volunteer, Scientific Research & Education Network, Tuscaloosa, AL
2021 Tech or Treat, Tuscaloosa, AL

Denver/Aurora, CO

- 2017 – 2018 Program Coordinator, WeLL-COMe Project, Scientific Outreach for Denver & Aurora Public Schools
2017 Volunteer, WeLL-COMe Project, Scientific Outreach for Denver & Aurora Public Schools
2017 Volunteer, Camp Neuro, Aurora, CO
2017 Volunteer, Aurora Schools Career Day, Aurora, CO
2017 Volunteer, Brain Awareness Week, Denver, CO

Richmond, VA

- 2011 – 2013 Medical Clinic Volunteer, Fan Free Medical Clinic, Richmond, VA

LEADERSHIP

University of Alabama, Tuscaloosa, AL

- 2022-2023 President & Co-Founder, College of Education Graduate Student Association
2022-2023 Member, Student Information Technology Committee
2018-2022 President & Co-Founder, Association of Graduate Students in Educational Studies
2019-2020 Representative, ESPRMC Graduate Student Leadership Committee
2019-2020 Vice President of Innovations, Graduate Student Association
2018-2019 Co-Chair, Student Experience Committee, Graduate Student Association
2019-2020 Member, University Information & Technology Committee
2018-2020 Member, University of Alabama Security and Safety Committee

University of Colorado – Anschutz Medical Campus, Aurora, CO

- 2017 Student Representative, MSMHA Program Evaluation Committee

PROFESSIONAL SOCIETY MEMBERSHIPS

- 2023-Present APA Division 2: Society for Teaching of Psychology
2022-Present Society for Functional Near Infrared Spectroscopy (sfNIRS)
2020-Present American Psychology Association (APA)
2018-2023 APA Division 15: Educational Psychology
2019-Present Association for Psychological Science (APS)
2018-Present International Mind, Brain, and Education Society (IMBES)
2017-2018 American Association of Anatomists (AAA)