

# Jacob B. Feiler, Ph.D.

jfeiler@tulane.edu  
Department of Psychology  
Tulane University

## ACADEMIC APPOINTMENTS

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July 2023 – **Professor of Practice**, Tulane University

## EDUCATION

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- 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
- 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
- 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*

## CERTIFICATES

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- May 2023 **Quantitative Educational Research**, The University of Alabama
- May 2018 **Anatomical Sciences Teaching**, University of Colorado – Anschutz Medical Campus

## HONORS & AWARDS

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- 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**

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2022 – 2023 University of Alabama Graduate Council Dissertation Fellowship  
2021 University of Alabama College of Education Dean’s Summer Research Fellowship  
2020 University of Alabama College of Education Dean’s Summer Research Fellowship  
2019 – 2020 University of Alabama Graduate Council Fellowship

## **RESEARCH EXPERIENCE**

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2021 – 2023 Graduate Research Assistant, Lakin Lab, University of Alabama  
2018 – 2023 Graduate Research Assistant, NERD Lab, University of Alabama  
2017 – 2018 Graduate Student Researcher, Children’s Hospital of Colorado  
2014 – 2016 Professional Research Assistant, University of Colorado School of Medicine  
2013 Research Assistant, Hospital of the University of Pennsylvania

## **TECHNICAL SKILLS**

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- **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 modeling, multi-level modeling, psychometrics, basic inferential statistics

## **TEACHING**

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*Teaching portfolio is available upon request*

### **Tulane University, New Orleans, LA**

F’2023 PSYC 1000: *Introductory Psychology*  
**Instructor of Record**

PSYC 3130: *Experimental Psychology*  
**Instructor of Record**

### **The University of Alabama, Tuscaloosa, AL**

F’2022 BEP 220: *Brain, Learning, and Cognition*  
**Instructor of Record**

F’2021 BEP 220: *Brain, Learning, and Cognition*  
**Instructor of Record**

F’2020 BEP 220: *Brain, Learning, and Cognition*

### **Co-Instructor of Record**

- S'2020 HD 101: *Introduction to Human Development*  
**Graduate Teaching Assistant**  
*Invited Guest Lecturer, Memory, HD 101: Introduction to Human Development*  
*Invited Guest Lecturer, Brain & Perceptual Development*
- F'2019 HD 101: *Introduction to Human Development*  
**Graduate Teaching Assistant**  
**Guest Lecturer, Brain & Perceptual Development**

### **University of Colorado School of Medicine, Aurora, CO**

- S'2018 ANAT 6111: *Human Gross Anatomy*  
**Graduate Teaching Assistant**
- F'2017 ANAT 6321: *Human Histology*  
**Graduate Student Educator**  
**Lecturer, Renal System Histology**  
**Team-Based Learning Facilitator, Nervous System Histology**
- F'2017 ANAT 6412, *Foundations of Teaching*  
**Guest Lecturer, Educational Neuroscience**
- F'2017 ANAT 6490, *Advanced Teaching in Anatomical Sciences*  
**Graduate Student Educator**

### **Brown University, Providence, RI**

- SU'2019 *Neuroscience in Health and Disease, Summer@Brown*  
**Teaching Associate (SOI not collected)**
- SU'2017 *Neuroscience in Health and Disease, Summer@Brown*  
**Guest Lecturer, Educational Neuroscience**

### **UNDERGRADUATE STUDENT MENTORSHIP**

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#### **The University of Alabama**

- 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**

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- 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](https://doi.org/10.1096/fasebj.2018.32.1_supplement.782.6)

## **MANUSCRIPTS IN PREPARATION**

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- Feiler, J.B., Scofield, J. *Effects of Embodying Spatial Concepts in Science.*
- Linetsky, K., Feiler, J.B., Scofield, J. *Children's Explanations of Natural Events.*

## **RESEARCH PROJECTS IN-PROGRESS**

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- Validity of the CogAT Spatial Test, Lakin Lab (in-progress)
- Effects of Embodying Spatial Concepts in Science (data collection)
- Children's Explanations of Natural Events, ABCD Lab (manuscript in-preparation)
- The Effects of Gesture and Embodiment on Lexical Tone Learning using fNIRS, NERD Lab (data collection)

## **PEER-REVIEWED CONFERENCE ABSTRACTS & PRESENTATIONS**

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*\*Denotes mentored undergraduate student*

- Feiler, J.B., Scofield, J., Lakin, J. *Impacts of Embodied Representations on Mechanical Reasoning.* To be presented at the 2023 annual meeting for the Association for Psychological Science, Washington, D.C.
- 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. **[2<sup>nd</sup> 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. **[2<sup>nd</sup> 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**

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

## **OUTREACH & SERVICE**

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### **Tulane University, Psychology Department, New Orleans, LA**

2023-2024 Member, Undergraduate Studies Committee

### **Tulane University, School of Science and Engineering, New Orleans, LA**

2023-2024 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

### **Community Outreach**

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

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

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

### **Professional Service**

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

2019 Mentored Peer Reviewer, *Language Learning*

## **LEADERSHIP & COMMITTEE REPRESENTATION**

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### **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**

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2022-Present Society for Functional Near Infrared Spectroscopy (sfNIRS)  
2020-Present American Psychology Association (APA)  
2018-Present 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)