

Jacob B. Feiler, M.S.
Curriculum Vitae

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EDUCATION

University of Alabama, Tuscaloosa, AL

Ph.D. in Educational Psychology August 2018-Present

Concentration: Educational Neuroscience

Certificate: Quantitative Educational Research

University of Colorado Anschutz Medical Campus, Aurora, CO

May 2018

M.S. in Modern Human Anatomy

Capstone: *An fMRI Study Examining Inhibition and Threat Vigilance Among Adolescents with Severe Worry*

Committee: Dr. Benjamin Mullin (Mentor); Dr. Maureen Stabio (Chair); Dr. John Thompson

Teaching Certificate in the Anatomical Sciences

University of Pennsylvania, Philadelphia, PA

July 2014

Post-Baccalaureate Pre-Health Program, Specialized Studies

University of Richmond, Richmond, VA

May 2013

B.A. in Political Science, cum laude

Thesis: *Analyzing the Quality of Care at Virginia's Hospitals*

Advisors: Dr. Jennifer Bowie; Dr. Tracy Roof

Minor in Latin American and Iberian Studies

HONORS & AWARDS

Educational Psychology Most Outstanding Graduate Student Award	2020
ESPRMC Graduate Research Symposium Outstanding Poster Presentation Award	2019
MHA Excellence in Teaching Award <i>nominee</i>	2018
MHA Excellence in Service Award <i>nominee</i>	2018
Travel Award, American Association of Anatomists Annual Meeting	2018
Omicron Delta Kappa Salute Award	2013
Golden Key Honor Society	2012
Phi Eta Sigma Honor Society	2010

FELLOWSHIPS & GRANTS

University of Alabama College of Education Dean's Summer Research Fellowship	Summer 2021
University of Alabama College of Education Dean's Summer Research Fellowship	Summer 2020
University of Alabama Graduate Council Fellowship	2019-2020

RESEARCH

<i>Graduate Research Assistant</i>	2018-Present
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Neuroscience of Education Research on Development (N.E.R.D.) Lab, University of Alabama, Tuscaloosa, AL

Advisor: Dr. Laura Morett

- Examine how gesture contributes to improved non-native language learning
- Utilize functional near-infrared spectroscopy (fNIRS) to examine brain activity during learning of mandarin words that differ only in lexical tone
- Develop task and stimuli in OpenSesame

Graduate Student Researcher

2017-2018

Pediatric Mental Health Institute, *Children's Hospital Colorado*, Aurora, CO

Mentor: Dr. Benjamin Mullin

- Analysis of functional magnetic resonance imaging (fMRI) using CONN Connectivity Toolbox and Statistical Parametric Mapping (SPM12) software
- Behavioral data analysis using MATLAB and SPSS
- Administration of executive function tests

Professional Research Assistant

2014 –2016

Trauma Research Center, *University of Colorado School of Medicine*, Denver, CO

Principal Investigator: Dr. Ernest E. Moore, MD

- Perform viscoelastic coagulation testing to study platelet dysfunction, fibrinolysis, mechanisms of post injury coagulopathy, and hemostatic resuscitation strategies
- Screen, consent, and enroll study participants involved in life-threatening trauma and/or hemorrhage
- Prepare and submit group's related regulatory paperwork to the institutional review board (IRB), as well as reports to the Food and Drug Administration (FDA) and Department of Defense (DOD).

Research Assistant

2013

Emergency Department, *Hospital of the University of Pennsylvania*, Philadelphia, PA

- Screened patient charts for study eligibility, consented and enrolled eligible patients in various research studies, conducted questionnaires for relevant studies, communicated with physicians and nurses regularly.

CERTIFICATES & TECHNICAL SKILLS

- Software
 - Statistical Analysis (SPSS, R)
 - Stimulus presentation (OpenSesame, PsychoPy, Pavlovia)
 - Neuroimaging analysis (MATLAB, CONN, SPM12, MarsBaR, WFU_PickAtlas)
 - Imaging/Model Creation (ScanIP, FIJI, Slicer, MRIcro, mricron, MRIcroGL)
- Teaching certificate in anatomical sciences, *University of Colorado, Anschutz Medical Campus*
- Functional near-infrared spectroscopy (fNIRS)
- Functional magnetic resonance imaging (fMRI) data analysis
- CITI (Health Information Privacy and Security (HIPS) for Clinical Investigators; Biomedical Investigators)

TEACHING

University of Alabama, Tuscaloosa, AL

- BEP 220: Brain, Learning, and Cognition Fall 2021
 - Instructor of record
- BEP 220: Brain, Learning, and Cognition Fall 2020
 - Co-instructor of record
 - Created all materials for course in collaboration with co-instructor
- HD 101: Introduction to Human Development
 - Graduate teaching assistant Spring 2020
 - Guest lecture, memory
 - Guest lecture, brain and perceptual development
 - Graduate teaching assistant Fall 2019
 - Guest lecture, brain and perceptual development

University of Colorado School of Medicine, Aurora, CO

- ANAT 6111: Human Gross Anatomy
 - Graduate teaching assistant Spring 2018
- ANAT 6321: Human Histology
 - Graduate lecture, renal-system histology November 2017
 - Graduate team-based learning activity, nervous system histology September 2017
- ANAT 6312: Foundations of Teaching
 - Guest lecturer, educational neuroscience October 2017
- ANAT 6490: Advanced Teaching in Anatomical Sciences
 - Mentored teaching training in biomedical sciences Fall 2017

Brown University, Providence, RI

- Neuroscience in Health and Disease
 - *Invited* Guest lecturer July 2017
 - Teaching Associate July 2019

Northfield High School, Denver, CO

- Volunteer math and science tutor 2014

University of Richmond, Richmond, VA

- ELL tutor 2010-2013
- Writing Center Consultant Advisor 2012-2013
- Writing Center Consultant 2011-2013

PEER-REVIEWED PUBLICATIONS

1. 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

MANUSCRIPTS IN PREPARATION

1. Linetsky, K., Feiler, J.B., Scofield, J. (2021). *Children's Explanations of Natural Events*.
2. Morett, L.M., Feiler, J.B., & Getz, L. (2021). *Effects of conceptual metaphor and embodiment on non-native tone learning*.

CURRENT PROJECTS

- Effects of Embodying Spatial Concepts in Science (Piloting)
- Children's Explanations of Natural Events (Manuscript in-preparation)
- Effects of Conceptual Metaphor and Embodiment on non-native (Musical) Tone Learning (Manuscript in preparation)
- The Effects of Gesture and Embodiment on Lexical Tone Learning using fNIRS (Data collection)

PEER-REVIEWED CONFERENCE ABSTRACTS & PRESENTATIONS

- Morett, L.M., Feiler, J.B., Getz, L.M. (2021, November). *Conceptual Metaphor, Embodiment, and Non-Native Lexical Tone Learning*. Submitted to be presented at the Annual Meeting of the Psychonomic Society.
- 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*. To be presented at the University of Alabama's Undergraduate Research and Creative Activity Symposium, Tuscaloosa, AL.
- 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
- 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.

**Denotes mentored undergraduate student*

MENTORSHIP

- Undergraduate Research Assistants
 - Haven Howell (Major:) 2021- Present
 - Katherine Brockman (Major: Educational Neuroscience) 2020- Present
 - Raymond Bulger (Major: Psychology) 2020-2021
 - Edward Liccardo (Majors: Psychology & Computer Science) 2019-2020

PROFESSIONAL ACTIVITIES

- UA Brain Awareness Website Designer (<https://brainawareness.ua.edu>) 2021
- Scientific Research and Education Network (SciREN) Lesson Plan Creation 2021
- APA (Division 15) Convention Proposal & Abstract Reviewer 2021
- Mentored Peer Reviewer, *Language Learning* 2019
- Poster Session Judge, Undergraduate Research and Creative Activities Symposium, University of Alabama 2019; 2020
- Poster Session Judge, Research & Creative Activities Symposium, Denver, CO 2018
- MSMHA Program Admissions Student Interviewer, Aurora, CO 2018
- Program Coordinator, WeLL-COMe Project, Science Outreach for Denver and Aurora Public Schools 2017-2018
- Volunteer, WeLL-COMe Project, Science Outreach for Denver and Aurora Public Schools 2017
- Brain Awareness Week Volunteer, Aurora, CO 2017
- Camp Neuro Volunteer, Aurora, CO 2017
- Aurora Schools Career Day Volunteer, Aurora, CO 2017
- Fan Free Medical Clinic Volunteer, Richmond, VA 2011-2013

COMMITTEE LEADERSHIP & SERVICE

University of Alabama, Tuscaloosa, AL

- *President*, Association of Graduate Students in Educational Studies 2018-Present
- *Vice President of Innovations*, Graduate Student Association 2019-2020
- *Co-Chair*, Student Experience Committee, Graduate Student Association 2018-2019
- *Member*, University Information & Technology Committee 2019-2020
- *Member*, University of Alabama Security and Safety Committee 2018-2020

University of Colorado Anschutz Medical Campus, Aurora, CO

- MSMHA Program Evaluation Committee-Student Representative 2017

PROFESSIONAL SOCIETY MEMBERSHIPS

- American Psychology Association (APA) 2020-Present

- APA Division 15: Educational Psychology 2018-Present
- Association for Psychological Science (APS) 2019-Present
- International Mind, Brain, and Education Society (IMBES) 2018-Present
- American Association of Anatomists (AAA) 2017-2018