

Piper Lyons

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Gainesville, FL

EDUCATION

Master of Science in Interdisciplinary Neuroscience Expected 2027
University of Missouri | Columbia, MO
University of Missouri Life Sciences Fellow

Bachelor of Science in Psychology - Behavioral Cognitive Neuroscience 12/2024
University of Florida | Gainesville, FL GPA: 3.7/4.0
Honors: *Magna Cum Laude*

Relevant Coursework: Behavioral Cognitive Neuroscience 1, Statistics 2, Behavioral Neuroscience, Neurobiology of Substance Abuse, Cognitive Psychology, Abnormal Psychology, Psychological Lab Methods, Integrated Principles of Biology 2, Sensory Processes (with lab)

WORK HISTORY

Lab Manager

Social-Cognitive and Affective Development Lab, Univ. of Florida 02/2025 - Current

- Project management, including protocol development and piloting, participant recruitment and compensation, data collection in the form of cognitive testing, neuroimaging, and eye-tracking, and data pre-processing and analysis
- Running study sessions that involve fMRI, behavioral and cognitive measures, physiological recording, guided training using neurofeedback, and eye-tracking methods
- Oversee daily lab operations, supervise and train 16+ research assistants, facilitate efficient communication between research assistants, graduate students, and the principal investigator

Gymnastics Instructor

Sun Country Sports Center, Gainesville, FL 09/2021 - Current

- Instructed large classes in gymnastics and tumbling from beginners to advanced levels
- Recognized as employee of the month

- Prepared weekly lesson plans and organized drills for several different classes, specialized clinics, and competitions/performances
- Facilitated the training and development of new coaching staff

Childcare Provider

Touroo Family, Gainesville, FL

05/2020 - 08/2020

- Supervised children aged three and nine, in addition to maintaining the household and pets, over 40 hours a week
- Coordinated daily schedules, outings, and activities and prepared daily meals

RESEARCH EXPERIENCE

Research Volunteer

National Neuropsychology Network, Univ. of Florida Site

06/2024 - 07/2025

- Entered and cleaned clinical neuropsychological datasets for the multi-site research consortium
- Gained extensive knowledge about specific batteries of clinical neuropsychological tests

Research Assistant

Social-Cognitive and Affective Development Lab, Univ. of Florida

08/2023 - 02/2025

- Assisted with the development and execution of several different research projects
- Prepared participants for fMRI scans and assisted with cognitive testing during the scan
- Recruited, screened, and onboarded research participants
- Gained experience with coding and programming (PsychoPy, R, and SPSS), piloting studies, and preprocessing physiological (mainly PPG) data
- Learned how to write abstracts, analyze psychological data, and present research

TEACHING EXPERIENCE

Teaching Assistant

Concepts & Methods in Lifespan Developmental Research | Univ. of Florida 08/2024 - 12/2024

- Monitored graduate student attendance and in-class participation
- Assisted with organizing and creating the syllabus and course website

PRESENTATIONS

Lyons, P., Shoenfelt, A., Faulkner, R., Chadwick, R., Wright K., Ebner, N. C. (April 2026). Truth Bias in Dynamic Face-to-Face Deception Detection in Aging and the Role of Personality Traits. Poster at the Center for Aging and Memory Research Day, Gainesville, FL, USA.

Shoenfelt, A., Chadwick, R., **Lyons, P.**, Faulkner, R., Wright, K., & Ebner, N.C. (April, 2026). A dual eye-tracking approach for investigating effects of dynamic eye-gaze behavior on face-to-face deception detection in older adults. Poster at the Cognitive Aging and Memory Center Research Day in Gainesville, FL, USA.

Shoenfelt, A., Chadwick, R., **Lyons, P.**, Faulkner, R., Wright, K., & Ebner, N.C. (March, 2026). Effects of dynamic eye-gaze behavior on face-to-face deception detection in older adults: A dual eye-tracking approach. Spotlight Poster at the Society for Affective Science Conference in Pittsburgh, PA, USA.

Ebner, N. C., Shoenfelt, A., Chadwick, R., Wright, K., Faulkner, R., & **Lyons, P.** (February, 2026). *Dynamic eye-gaze behavior in naturalistic face-to-face deception detection: Leveraging novel dual eye-tracking methodology in older adults*. Talk at the annual meeting of the International Society for Behavioral Neuroscience, Auckland, New Zealand.

Hayes, A., Lin, T., Alluri, M., Faulkner, R., **Lyons, P.**, Arnold, D., Lighthall, N., Ebner, N. C., (May 2025). *Novel real-time fMRI neurofeedback training to enhance trust-related decision making in aging*. Poster at the Florida Consortium on the Neurobiology of Cognition in Orlando, FL.

Lyons, P., El-Shafie, D., Horta, M., Lin, T., Ebner., N.C., (November 2024). *Loneliness-Moderated Effects of Chronic Pain on Analytical Reasoning*. Poster at the Fall Undergraduate Research Symposium in Gainesville, FL.

Lyons, P., El-Shafie, D., Horta, M., Lin, T., Ebner., N.C., (April 2024). *Loneliness-Moderated Effects of Chronic Pain on Analytical Reasoning*. Poster at the Pain Research Day in Gainesville, FL.

Lyons, P., El-Shafie, D., Horta, M., Lin, T., Ebner., N.C., (April 2024). *Loneliness-Moderated Effects of Chronic Pain on Analytical Reasoning*. Poster at the Psychology Undergraduate Research Forum in Gainesville, FL.

MANUSCRIPTS IN PREPARATION

Shoenfelt, A., **Lyons, P.**, Chadwick, R., Faulkner, R., Wright, K.,

Ebner, N.C. (working paper). Provisional title: Age-Related Deception Detection Deficits in Face-to-Face Dyadic Interactions: A Mechanistic Analysis.

AWARDS & HONORS

University of Missouri Life Sciences Fellowship	04/2026
Graduated with magna cum laude distinction	12/2024
Spring 2024 Dean's List, College of Liberal Arts and Sciences, University of Florida	05/2024
Bright Futures Florida Academic Scholarship	06/2021

WORKSHOPS/TRAINING

CPR and First Aid Certification	10/2025
Montreal Cognitive Assessment Training and Certification	02/2025
Automated Cognitive Assessments with EEG and AI Workshop with Dr. Keith Yoder	02/2025
Computational Modeling of Behavioral Data Workshop	05/2024
General Magnetic Resonance Safety Training	10/2023

MEMBERSHIP

North Central Florida Society for Neuroscience	09/2024 - Current
Psi Chi, The International Honor Society in Psychology	10/2023 - 12/2024
Neuroscience Club, University of Florida, Gainesville, FL	09/2023 - 12/2024
Psychology Club, University of Florida, Gainesville, FL	01/2023 - 12/2024

SKILLS

Software: Microsoft Word, Excel, PowerPoint, Adobe Photoshop, PsychoPy, R (basic proficiency), MatLab (basic proficiency), SPSS, Qualtrics, REDCap, OnBase, AcqKnowledge, Neon Labs/Pupil Cloud, Mangold Interactive, NIH Toolbox, HiperGator (basic proficiency), and Bash (basic proficiency)

Data collection and processing: fMRI preparation and administration, administration of behavioral and cognitive assessments, PPG and EDA recording and preprocessing using BioPac hardware, collecting and preprocessing eye-tracking data, neuroimaging data preprocessing, behavioral coding of eye-tracking data