

Kianoosh Hosseini

Curriculum Vitae

Florida International University, Miami, FL

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Research Interests

❖ Cognitive Control, Memory, Anxiety, Neural Oscillations, Neuroimaging

Education

August 2021 - Present

PhD in Cognitive Neuroscience
Florida International University
Advisor: Dr. George A. Buzzell

July 2023

Master of Science in Cognitive Neuroscience
Florida International University
Thesis: A novel paradigm to investigate the impact of error monitoring on incidental encoding of social stimuli in social anxiety
Advisor: Dr. George A. Buzzell

September 2020

Master of Science in Medical Imaging Technology
Tabriz University of Medical Sciences
Thesis: "Investigation of the brain effective connectivity in posttraumatic anosmic and hyposmic patients before and after olfactory training and rehabilitation, using Functional Magnetic Resonance Imaging (fMRI)"
Advisors: Dr. Davood Khezerloo and Dr. Arash Zare-Sadeghi

June 2017

Bachelor of Science in Radiology Technology
Tabriz University of Medical Sciences

Grants

Active

2022 - Present

Center for Children and Families Seed Grant (Florida International University)
Investigating the role of error monitoring in social anxiety
Role: Principal Investigator

Honors and Awards

April 2025	Poster Presentation Award (2nd Place) - Florida International University Psychology Department Research Days MMC Campus, Miami, FL
September 2023	Travel Award for the 2023 Society for Psychophysiological Research (SPR) conference New Orleans Marriott Hotel, New Orleans, LA
May 2023	Travel Award for the 2023 ACBM Meeting NIH campus, Bethesda, MD
2018 - 2020	Ranked 1 st among all Medical Imaging Technology students admitted in 2018 Tabriz University of Medical Sciences
October 2017	Direct admission to the M.Sc. program with exemption from Master's National Entrance Exam (Recognized by the Exceptional Talent's office of the University) Iranian Ministry of Health and Medical Education and Tabriz University of Medical Sciences
2013 - 2017	Ranked 1 st among all Radiology Technology students admitted in 2013 Tabriz University of Medical Sciences

Journal Publications

- Zakirov, F., **Hosseini, K.**, Garcia Morazzani, A., LaPlace, L., Pettit, J.W., & Buzzell, G. A. (under review).
Age and Social Observation Effects on Theta Synchrony and Its Role in Adolescent Post-Error Control: A Computational Approach. <https://doi.org/10.64898/2026.06.29.734887>
- Hosseini, K.**, Mattfeld, A. T., & Buzzell, G. A. (under review).
The Role of Neural Oscillations in Incidental Learning. https://osf.io/preprints/psyarxiv/a9d8s_v1
- *Niu, Y., ***Hosseini, K.**, Pena, A., Rodriguez, C., & Buzzell, G. A. (under review).
Social observation influences the trajectory of performance monitoring across trials: evidence from single-trial estimates of the ERN and CRN. <https://doi.org/10.1101/2025.09.16.676498>
- *Authors contributed equally**
- Hosseini, K.**, Mattfeld, A. T., Pettit, J. W., & Buzzell, G. A. (2026).
Error-Related Memory Biases Are Specific to Social Stimuli for Socially Anxious Individuals. *Cogn Affect Behav Neurosci*. <https://doi.org/10.3758/s13415-026-01476-4>
- Manning, B. L., **Hosseini, K.**, Yang, E., Buzzell, G. A., Landi, N., Kim, S.H. (2024).
Neural Processing of Speech Sounds in Autistic Kindergarteners as a Predictor of Reading Outcomes. *J Autism Dev Disord*. <https://doi.org/10.1007/s10803-024-06638-2>

Hosseini, K., Pettit, J. W., Soto, F. A., Mattfeld, A. T., Buzzell, G. A. (2024)

Toward a mechanistic understanding of the role of error monitoring and memory in social anxiety. *Cogn Affect Behav Neurosci*. <https://doi.org/10.3758/s13415-024-01198-5>

Hosseini, K., Zare-Sadeghi, A., Sadigh-Eteghad, S., Mirsalehi, M., Khezerloo, D. (2020).

Effects of olfactory training on resting-state effective connectivity in patients with posttraumatic olfactory dysfunction. *Acta Neurobiologiae Experimentalis*, 80(4), 381–388.

Oral Presentations and Symposia (Conferences)

Martin, E.R., Buzzell, G., **Hosseini, K.**, Hays, J.S., & Soto, F.A. (2025, November 19). Neural encoding of facial feature representations across time. Configural Processing Consortium (CPC), Denver, Colorado, USA.

Hosseini, K., Pettit, J. W., Soto, F. A., Mattfeld, A. T., Buzzell, G. A. (2024, May 2-3). The potential role of error-related theta oscillations and memory in social anxiety. [Conference presentation]. Florida Consortium on the Neurobiology of Cognition (FCNC), Miami, FL, USA

Hosseini, K., Pettit, J. W., Soto, F. A., Mattfeld, A. T., Buzzell, G. A. (2023, September 27- October 1). A novel paradigm to investigate the role of error monitoring in social anxiety. [Conference presentation]. Psychophysiology, New Orleans, LA, USA

Hosseini, K., Pettit, J. W., Soto, F. A., Mattfeld, A. T., Buzzell, G. A. (2023, May 22-23). A novel paradigm to investigate the impact of error monitoring on incidental encoding of social stimuli. [Conference presentation]. Association for Cognitive Bias Modification, Bethesda, MD, USA

Poster Presentations

Hosseini, K., Mattfeld, A. T., Pettit, J. W., Buzzell, G. A. (2026, May 6 - May 8). Socially Anxious Individuals Show Error-Related Memory Biases Selectively for Social Stimuli. Florida Consortium on the Neurobiology of Cognition (FCNC), Tallahassee, FL, USA

Hosseini, K., Mattfeld, A. T., Pettit, J. W., Buzzell, G. A. (2025, March 29 - April 1). Error-Related Memory Biases Are Specific To Social Stimuli For Socially Anxious Individuals. Cognitive Neuroscience Society (CNS) Annual Meeting, Boston, MA, USA.

Zakirov, F., **Hosseini, K.**, Garcia-Morazzani, A., LaPlace, L., Pettit, J. W., Buzzell, G. A. (2025, March 29 - April 1). Changes In Error-Related Theta Oscillations and Post-Error Behavior Across Adolescence. Cognitive Neuroscience Society (CNS) Annual Meeting, Boston, MA, USA.

Ibarra, A., **Hosseini, K.**, Cruz, L., Perez, G., & Buzzell, G. A. (2025, February 14-15). Towards a Curated Psychological Research Database of Object and Animal Images Created by Generative Artificial Intelligence. Florida Undergraduate Research Conference, Tampa, FL, USA.

Buzzell, G. A., Niu, Y., **Hosseini, K.**, Pena, A., Rodriguez, C. (2024, October 23- 26). Social Evaluation Elicits a Trajectory of Increasing Error Monitoring Across Trials: Evidence from Trial-level Estimates of the ERN. Psychophysiology, Prague, Czech Republic

Manning, B., **Hosseini, K.**, Yang, E.J., Buzzell, G. A., Kim, S.H. (2023, May 3-6). Neural Processing of Phonological Information in Kindergarteners with ASD and the Relation to Reading Outcomes. International Society for Autism Research (INSAR), Stockholm, Sweden

Soto, F. A., Martin, E. R., Lee, H. Ahmed, N., Estepa, J., **Hosseini, K.**, Stibolt, O. A., Roldan, V., Winters, A., Bayat, M. (2022, May 12-13). Validity Of Neural Distance Measures in Representational Similarity Analysis. Computational and Mathematical Models in Vision (MODVIS) Workshop, USA

Hosseini, K., Pesianian, I. (2016, May 3-6). Dose Comparison between full field digital and screen/film mammography. Iranian Congress of Radiology, Tehran, Iran

Teaching

Spring 2023	Time-Frequency Analyses: Time-Frequency PCA Fetal, Infant, & Toddler Neuroimaging Group: Virtual Interactive Workshop Role: Teaching Assistant (Dr. George A. Buzzell)
Summer 2022	Introduction to Behavioral Neuroscience Psychology Department, Florida International University Role: Teaching Assistant (Dr. Danielle Fournier)
Spring 2022	Introduction to Biological Psychology Psychology Department, Florida International University Role: Teaching Assistant (Dr. George A. Buzzell)
Spring 2022	Memory and Memory Improvement Psychology Department, Florida International University Role: Teaching Assistant (Dr. Maria Shpurik)
2018 - 2020	Computed Tomography Principles (Online Course) Gallen Educational Platform (Gallen.com) Role: Primary Instructor
Fall 2018	Radiobiology Principles Radiology Department, Tabriz University of Medical Sciences Role: Independent teaching (under supervision of Dr. Davood Khezerloo)

Mentorship Experience

2021-present	Over 15 graduate and undergraduate students in the lab of Dr. George A. Buzzell (FIU)
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Ad-hoc Journal Reviewer

Neuropsychologia (2), npj Digital Medicine (1)

Attendance (Selection)

July 2020	Computational Neuroscience Summer School Neuromatch Academy
January 2019	The workshop of functional MRI: Advanced Data Analysis NeuroImaging and Analysis Group (NIAG), Tehran, Iran
January 2018	The workshop of functional and structural brain connectivity NeuroImaging and Analysis Group (NIAG), Tehran, Iran

Other Activities

2017 - 2018	MRI Physics Podcast (In-depth teaching in Persian and shared on Galleny Platform)
2017 - Present	Galleny (formerly known as PartoResaneh) Founding Galleny as an online educational platform for medical sciences students and professionals
2015 - 2016	The self-care in diabetes Book Leading and organizing a group of students from various medical fields aimed at collecting and writing the contents of the book (accepted, funded, and published by Tabriz University of Medical Sciences)

Skills

Programming Languages and Tools	MATLAB, Python, R, git
Data Analysis Tools	SPM12, FSL, WFU-PickAtlas, EEGLAB
Medical Imaging Modalities and Physiological Recordings	MRI, CT scan, Radiography, EEG, and GSR

Typesetting	MS Office Suite
Operating System	Mac OS, GNU/Linux (Ubuntu, CentOS, etc.), and Windows.
Other Tools and Platforms	Psychopy, Pavlovia, SONA Systems, REDCap, WordPress, Google Analytics

Language Skills

English (*Advanced*), **Persian** (Native), **Azeri** (Native)