

T'kara Mullins, M.A.

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SUMMARY

Experimental psychologist with 8+ years of research experience. I am adept at experimental and survey design, physiological data collection, professional writing, and inferential and descriptive statistics. I am interested in human-computer interaction, team coordination, natural language processing, and user experience.

EDUCATION

PHD Modeling, Simulation, and Training	Ant. 2027
The University of Central Florida (UCF), Orlando, FL	
MEng Modeling, Simulation, and Training, Summa cum laude	May 2025
The University of Central Florida (UCF), Orlando, FL	
MA Applied/Experimental Psychology, Summa cum laude	July 2017
<i>Specialization: Cognitive Neuropsychology</i>	
The University of West Florida (UWF), Pensacola, FL	
BA Psychology with Honors, Magna cum laude	July 2015
The University of West Florida, Pensacola, FL	

RESEARCH EXPERIENCE

Graduate Researcher, Cognitive Science Laboratory	2024- present
School of Modeling, Simulation, and Training, UCF	
<ul style="list-style-type: none">Investigating how to detect coordination breakdown during complex problem solving.	
Graduate Researcher, Dynamix Lab	2022- 2024
School of Modeling, Simulation, and Training, UCF	
<ul style="list-style-type: none">Studied methods of nonlinear dynamic systems theory including fractals, wavelets, synchrony, and multidimensional recurrent quantification analysis.Conducted qualitative and quantitative analysis using R to investigate the influence of stigmatization on people's likelihood to reveal private health information on TikTok.Investigated how team dynamics evolve over time and influence overall team success with the Army Research Lab using MATLAB, python, and R.	
Master's Researcher	2015- 2017
Psychology Department, UWF	

- Conducted neuropsychological research on executive function to include detection, testing methodology, individual differences, and theoretical and clinical applications.

Graduate Research Assistantship, Cognitive Development Lab 2015- 2017 Psychology Department, UWF

- Assistant to Dr. Vanessa Rainey conducting primary and secondary source research on EEG application and analysis and event-related potential identification.

Graduate Research Assistant, Biomarker Discovery Lab 2016- 2017 Biology Department, UWF

- Assistant to Dr. Rodney Guttman creating gel plates tagged with phage bacteria to identify a phage that would selectively bind to proteins to allow for early detection of Alzheimer's disease.

Graduate Research Assistant, Cognitive Neuroscience Lab 2015- 2017 Psychology Department, UWF

- Prepared the lab space in a vaulted EEG chamber, established EEG recording parameters, and applied the EEG electrodes to participations.

WORK EXPERIENCE

Business Analyst 2022- present

- Supported the maintenance and development of a series of applications used to track medical readiness of Sailors and Marines.

Testing Specialist/Statistician, Universal Consulting Services 2021- 2022

- Researcher within the Operational Psychology lab for the Naval Aerospace Medical Institute (NAMI) working to improve the Aviation Selection Test Battery for the U.S. Navy.

Adjunct Professor of Psychology, Missouri State University • 2023- Present

Lectured within UWF's Psychology Department.

Adjunct Professor of Psychology, UWF 2018- Present

- Lectured within UWF's Psychology Department.

Care Coordinator, Sunshine Health LTC 2019-2021

- Interviewed patients with comorbid mental and physical health problems to fill care needs such as medical treatment, hospice care, and medication management services.

Therapist I, Lakeview 2018- 2019

- Provided services to youth in individual and group settings using methods such as motivational interviewing and cognitive behavioral therapy while following a trauma informed care paradigm.

Psychometrist/Cognitive Trainer, Learning Connections of Pensacola 2016-2018

- Administered a battery of Tests of Cognitive Abilities to screen individuals for various developmental and learning delays and then led students aged 6-70 years through a structured program developed to train deficits in cognitive abilities.

PUBLICATIONS

Mullins, T., Naher, N., Rehovicova, K., Williams, A., & Amon, MJ. (2025). Self-Other Disclosures of Concealable Stigmatized Identities on TikTok: Implications for Interdependent Privacy. *Computer Supported Cooperative Work*. *In-press

Margondai A., Willox, S., **Mullins, T.,** & Mouloua, M. (2025). Emotion-Aware Autonomous Vehicle Control-A Novel Framework for Driver State Management Through Adaptive AI-Driven Interventions. *Proceedings of the 2025 Annual Simulation Conference (ANNSIM'25)*.

Mullins, T., & Kaosaar, A., (2025). Leveraging the predictive power of team heart rate synchronization through nonlinear dynamics. *Proceedings of the Interdisciplinary Network for Group Research (INGRoup)*.

Mullins, T., Fiore, S.M. (2025). A Cognitive Efficiency Approach to Assessing Workload-Performance Trade-offs in Human-Autonomy Teams. *Proceedings of Applied Human Factors and Ergonomics Conference (AHFE)*.

Mullins, T., Necaie, A., Fiore, S.M., & Amon, M.J. (2024). Navigating Trust: The Interplay of Trust in Automation and Team Communication in an Extended Simulated Military Mission. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*.

PRESENTATIONS

Mullins, T., Fiore, S.M. (2025). A Cognitive Efficiency Approach to Assessing Workload-Performance Trade-offs in Human-Autonomy Teams. *Proceedings of Applied Human Factors and Ergonomics Conference (AHFE)*.

Mullins, T., Necaie, A., Fiore, S.M., & Amon, M.J. (2024). Navigating Trust: The Interplay of Trust in Automation and Team Communication in an Extended Simulated Military Mission. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*.

Mullins, T., Rehovicova, K., Komives-Prieto, G., & Amon, M. J. (2023, August). *Self-other Disclosures of Concealable Stigmatized Identities on Social Media*. Graduate level poster accepted for presentation at the annual meeting of the University of Central Florida's Student Scholar's Symposium, Orlando, FL.

Mullins, T., Rainey, V, & Pritchett, C., (2017, April). *The validation of a novel child-friendly Stroop task using event-related potentials*. Graduate level poster accepted for presentation at the annual meeting of the University of West Florida's Spring Scholar's Symposium, Pensacola, FL. *Outstanding Graduate Poster

Vaugh, E., **Mullins, T.,** Sweeney, M., & Guttman, R., (2017, April). *Tau-based biomarker development for early detection of Alzheimer's disease*. Poster accepted for presentation

at the annual meeting of the University of West Florida's Spring Scholar's Symposium, Pensacola, FL.

North, C., Brock, O., **Mullins, T.**, Sweeny, M., Medeiros, B., & Guttman, R., (2017, April). *Novel Alzheimer's disease biomarker development in blood and cerebrospinal fluid*. Poster accepted for presentation at the annual meeting of the University of West Florida's Spring Scholar's Symposium, Pensacola, FL.

Mullins, T., and Guttman, R., (2015, April). *Reciprocity and the likelihood to accept charity*. Poster accepted for presentation at the annual meeting of the University of West Florida's Spring Scholar's Symposium, Pensacola, FL. *Outstanding Psychology Poster * Outstanding College of Science, Engineering and Health Poster

HONORS AND AWARDS

Alphonse Chapanis Finalist, HFES	2024
Leonard P. Gollobin Scholarship, I/ITSEC	2023
Trustees Fellowship, UCF	2023
Outstanding Master's Thesis Finalist, UWF	2017
Department of Psychology Outstanding Master's Thesis, UWF	2017
Research Grant, Office of Graduate Research, UWF	2017
Outstanding Graduate Poster Award, Department of Psychology, UWF	2017
Graduate Scholarly and Creative Activities Grant, UWF	2016
Graduate Student Association Travel Grant, UWF	2015
Summer Undergraduate Research Program, UWF	2015
Psychology Senior Excellence Award, UWF	2015
College of Science, Engineering, and Health: Best Undergraduate Presentation, UWF	2015
Department of Psychology: Best Undergraduate Student Project, UWF	2015
Research Grant, UWF	2015
Outstanding Student of Psychology, UWF	2015
Psychology Junior Excellence Award, UWF	2014

****Full CV and professional references are available upon request. Please send all questions to tkara.mullins@gmail.com.***