Timothy Jason Jordan

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Education

Ph.D. in Physics — Aug 2015 — Dec 2021
Georgia State University

- Research Area: Neurophysics

MS in Physics — Aug 2015 — Dec 2019
Georgia State University

BS in Physics — Aug 2010 — May 2014
George Mason University

- Major: Physics
- Minor: Astronomy

Work experience

University of California, Los Angeles — Feb 2022 — Present
Postdoctoral Researcher

- Postdoctoral researcher in the Translational Neuroimaging Lab
- Current project: Effect of TMS treatment on functional connectivity and withdrawal symptoms in smokers

Georgia State University — Aug 2015 — Dec 2021
Graduate Research Assistant

- Neuroimaging Study on the effects of Video Games on decision-making task performance

Georgia State University — Aug 2015 — Sept 2021
Graduate Teaching Assistant

- Lab Instructor for Introductory Calculus-based Physics First & Second semester courses
- Lab Instructor for Introductory Algebra-based Physics First & Second semester course

Research Experience

University of California, Los Angeles , February 2022-Present

- Postdoctoral Researcher
- Lead Professor: Nicole Petersen
- Investigating the effects of TMS treatment on functional connectivity and withdrawal symptoms in smokers utilizing fMRI

Georgia State University , August 2015-December 2021

- Graduate Research Assistant
- Lead Professor: Mukesh Dhamala
- Investigated effects of Video Game Playing on Decision-Making task performance neuroimaging study
    - Explored functional and structural architecture

George Mason University, August 2013-May2014

- Individual Study Research
- Lead Professor: John R. Cressman
- Investigated timescales for neural network signaling and NILT therapy

George Mason University, September 2011-May 2013

- Research Assistant
- Lead Professor: Shobita Satyapal
- Investigated Active Galactic Nuclei and their correlation to host galaxies. Specifically mass correlation to host galaxies and evidence for presence in Bulgeless galaxies.

Skills

- Functional Connectivity analysis of fMRI data
- Granger causality effective connectivity analysis of fMRI data
- Voxel-based Morphometry analysis of MRI data
- Diffusion Tractography and TBSS analysis of DTI data
- Matlab
- Python
- Bash
- HTML
- LaTeX
- Neuroimaging study design & data collection
- Neuroimaging Analysis Software (SPM and FSL)
- Stimulus Development Software (PsychoPy)
- Adobe Lightroom
- Adobe Photoshop
- Adobe Premiere Pro

Talks

"Effects of Video Game Playing on sensorimotor decision-making abilities and brain network dynamics" - Georgia State University Dissertation Defense

"Beneficial Effects of Video Game Playing on Decision-Making" - Association of Nepali Physicists in America Conference 2021

Posters

"Beneficial Effects of Video Game Playing on Decision-Making" - BrainModes 2019 Conference, December 2019, Pokhara, Nepal

"Beneficial Effects of Video Game Playing on Decision-Making" - Brains & Behavior Retreat, May 2019, Atlanta, Georgia

"Beneficial Effects of Video Game Playing on Decision-Making" - Ninth International Workshop Statistical Analysis of Neuronal Data, May 2019, Pittsburgh, Pennsylvania

Journal manuscripts

Jordan T. and Dhamala M. "Video game players have improved sensorimotor decision-making abilities and enhanced brain activities", **Under Review**, 2021

Jordan T. and Dhamala M. "Enhanced Dorsal Attention Network to Salience Network interaction in video gamers during sensorimotor decision-making tasks", **Under Review**, 2021

Service Experience

Physics Graduate Student Association, Georgia State University

- President 2017-2018
- Department Student Liaison 2018-2021

Georgia State University Department of Physics & Astronomy

- Outreach & Publicity Committee 2019-2021
- Faculty Meeting Student Representative 2019-2021
- Graduate Committee 2018-2019

BrainModes 2019 Conference

- Student Committee
- Registration Liaison

Volunteer Experience

Physics Outreach

- GOT Space Student Volunteer and Organizer 2018-2021

Event Organizer

- Physics Graduate Student Professional Website Building Workshop 2018
- Physics Graduate Student ASL & Deaf Culture for Academic Environments 2019