

**Timothy Jordan, Ph.D.**Email: [timjordan@g.ucla.edu](mailto:timjordan@g.ucla.edu); [timjordan.neurophys@gmail.com](mailto:timjordan.neurophys@gmail.com);Website: <https://www.timjordanphd.com/>; ORCID: 0000-0003-4944-4326**Education**

Georgia State University	August 2015-December 2021
Ph.D., Physics	
Georgia State University	August 2015-December 2019
M.S., Physics	
George Mason University	August 2010-May 2014
B.S., Physics/Astronomy Minor	

**Postdoctoral Training**University of California Los Angeles

February 2022-Current: Translational Neuroimaging Laboratory

- *Principal Investigator:* Dr. Nicole Petersen

**Graduate Training**

August 2015-December 2021: Georgia State University Department of Physics &amp; Astronomy

- *Dissertation advisors:* Dr. Mukesh Dhamala
- *Committee:* Drs. Brian Thoms, Sidong Lei
- *Dissertation title:* Effects of video game playing on sensorimotor decision-making abilities and brain network dynamics.

**Honors, Awards & Distinctions**

- NINDS T32 Fellowship, Training in Neurotechnology Translation, UCLA 2023-Current

**Teaching Experience: Georgia State University**

- Teaching Assistant: August 2015-December 2021, Physics & Astronomy Department, Georgia State University  
*PHYS 2211K:* Principles of Physics I Laboratory  
*PHYS 2212K:* Principles of Physics II Laboratory  
*PHYS 1112K:* Introductory Physics I Laboratory

**Teaching Experience: Educational Workshops**

- Workshop Lecturer: Physics Graduate Student Association Workshop Series (2018): “Professional Website Building”

**Training Workshops & Courses Attended**

- October 17, 2023-Current: Chronic Pain Neurotechnology Network+ Online Course, Online – Seven month course covering pain neuroscience and neurotechnology for use in pain disorders
- June 5-June 7, 2023: NINDS T32 Workshop, University of Pennsylvania, Philadelphia, Pennsylvania – two-day workshop for T32 fellows to discuss improvements to the T32 fellowship program and training resources

### Contributions to Diversity: Mentoring, Outreach, and Events Organized

- October 13, 2019: Physic Graduate Student Association Workshop Series, Organizer
- Overview of *Deaf Culture and basic ASL for Academic Environment Interactions*

### Other Professional Organization and Committee Service and Leadership

- GOT Space Student Volunteer and Organizer 2018-2021

### Virtual Invited Lectures

1. Andrews University Physics Colloquium, January 19, 2023: “Neurophysics: Exploring the Brain from a Physics perspective”

### Departmental Service, GSU

- Department Faculty Committee Student Liaison (2018-2021)
- Outreach & Publicity Committee (2019-2021)

### Mentoring: UCLA

- Undergraduate students  
Dora Ambrose (6/2022-8/2022, NIDA Summer Internship)

### Media Coverage

- Novel Effect of Video Gaming on the Brain  
(<https://www.medscape.com/viewarticle/977423?form=fpf>)
- Study: Video Game Players Show Enhanced Brain Activity, Decision-Making Skill  
(<https://news.gsu.edu/2022/07/11/study-video-game-players-show-enhanced-brain-activity-decision-making-skill/>)
- Research Shows Video Game Players Have Enhanced Brain Activity and Superior Decision-Making Skills (<https://scitechdaily.com/research-shows-video-game-players-have-enhanced-brain-activity-and-superior-decision-making-skills/>)

### Publications

1. **Jordan T**, Michael AR, Nomi J, Petersen N (2024) *Unraveling neural complexity: Exploring brain entropy to yield mechanistic insight in neuromodulation therapies for tobacco use disorder* Imaging Neuroscience; 2 1–17. doi: [https://doi.org/10.1162/imag\\_a\\_00061](https://doi.org/10.1162/imag_a_00061)
2. Apostol MR, **Jordan, T**, Leuchter AF, Petersen N (2023) *Effects of transcranial magnetic stimulation to the dorsolateral prefrontal cortex on craving and state anxiety in tobacco use disorder*. Nature Mental Health 1, 1001–1012 doi: <https://doi.org/10.1038/s44220-023-00154-5>
3. **Jordan T**, Dhamala M (2023) *Enhanced Dorsal Attention Network to Salience Network Interaction in Video Gamers During Sensorimotor Decision-Making Tasks* Brain Connectivity doi: 10.1089/brain.2021.0193
4. Casto KV, **Jordan T**, Petersen N (2022) *Hormone-based models for comparing menstrual cycle and hormonal contraceptive effects on human resting-state functional connectivity* Frontiers in Neuroendocrinology doi: <https://doi.org/10.1016/j.yfrne.2022.101036>
5. **Jordan T**, Dhamala M (2022) *Video game players have improved decision-making abilities and enhanced brain activities* Neuroimage: Reports doi: <https://doi.org/10.1016/j.ynirp.2022.100112>

### Manuscripts Submitted or In Preparation

- Jordan T, Apostol M, Petersen N. *Stabilizing Functional Dynamics: Effects of repetitive TMS on dynamic functional connectivity in Tobacco Use Disorder*. In Preparation

### Conference Abstracts

1. **Jordan T**, Apostol M, Petersen N (2024) *Noninvasive brain stimulation augments and stabilizes dynamic functional connectivity* Annual Meeting of the Organization for Human Brain Mapping
2. Apostol M, Bossé B, Haase G, Kim L, Liu G, **Jordan T**, Petersen N (2023). *Determinants of neuromodulation efficacy in people with tobacco use disorder* Annual UCLA Brain Research Institute Neuroscience Poster Session
3. Apostol M, Bossé B, Haase G, Kim L, Liu G, **Jordan T**, Petersen N (2023). *Determinants of neuromodulation efficacy in people with tobacco use disorder* Annual Meeting of the Society for Neuroscience
4. **Jordan T**, Apostol M, Petersen N (2023). *Neuromodulation reduces brain entropy in people who smoke cigarettes* Annual Meeting of the Organization for Human Brain Mapping
5. **Jordan T** (2023) *Neuromodulation to left DLPFC reduces entropy of activity in the brain* Annual Meeting of the Center for Neuro Technology Symposium Data Blitz
6. **Jordan T**, Apostol M, Petersen N (2023). *Neuromodulation reduces brain entropy in people who smoke cigarettes* Annual Meeting of the Brain Stimulation Conference
7. Petersen N, **Jordan T**, Apostol M, London E, Leuchter A (2023) *Transcranial magnetic stimulation of dorsolateral prefrontal cortex reduces craving and increases salience network connectivity in people who smoke cigarettes* Annual Meeting of the Brain Stimulation Conference
8. Apostol MR, **Jordan T**, Petersen N (2022) *Changes in withdrawal and state anxiety following repetitive transcranial magnetic stimulation in people who smoke cigarettes* Annual Meeting of the Society for Neuroscience

### Contributions to Open Science: Preprints

1. LoFaro FM, **Jordan T**, Apostol M, Steele VR, Konova AB, Petersen N (2023) *Stimulating the Posterior Parietal Cortex Reduces Risk-Taking Propensity in People with Tobacco Use Disorder*. SSRN: <https://ssrn.com/abstract=4612168>