

**Timothy Jordan, Ph.D.**

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**Education**

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

**Postdoctoral Training**Emory University

October 2024-Current

- *Principal Investigator:* Dr. Daniel Harper

University of California Los Angeles

February 2022-September 2024: 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**

- Postdoctoral Association & Office of the Postdoctoral and Mentored Trainee Education Travel Award, Emory University 2025
- NINDS T32 Fellowship, Training in Neurotechnology Translation, UCLA 2022-2024

**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 II 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

- OHBM Student and Postdoc SIG Career Development and Mentoring Manager (2024-Current)
- USASP Pain Neuroimaging SIG Committee (2024-Current)
- USASP Clinical & Translational SIG Co-Chair (2025-Current)
- 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 Ambroise (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. Haase G, Liu J, **Jordan T**, Petersen N. (2025) *Exploration and Replication of Oral Contraceptive induced functional changes. Human Brain Mapping* 46, no. 11: e70318.  
<https://doi.org/10.1002/hbm.70318>
2. Petersen N, Apostol MR, **Jordan T**, Ngo TD, Kearley N, London ED, Leuchter A. (2025) *Comparing neuromodulation targets to reduce cigarette craving and withdrawal: A randomized clinical trial. Neuropsychopharmacology.* **50**, 1319–1326.  
<https://doi.org/10.1038/s41386-025-02106-2>

3. Cahill K, **Jordan T**, Dhamala M (2024) *Connectivity in the Dorsal Visual Stream Is Enhanced in Action Video Game Players*. *Brain Sciences*; 14(12):1206.  
<https://doi.org/10.3390/brainsci14121206>
4. LoFaro FM, **Jordan T**, Apostol MR, Steele VR, Konova AB, Petersen N (2024) *Stimulating the posterior parietal cortex reduces self-reported risk-taking propensity in people with tobacco use disorder* *Addiction Neuroscience* 12: 100160. doi: <https://doi.org/10.1016/j.addicn.2024.100160>
5. **Jordan T**, Apostol MR, 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)
6. 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>
7. **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
8. 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>
9. **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
- **Jordan T**, Lawhorne A, Harper D. *Functional Connectome Fingerprinting of People with TMD and their subjective pain experience*. In Preparation

### Conference Abstracts

1. **Jordan T**, Lawhorne A, Kaddoura N, Bhanushali P, Harper D. (2026) *Co-Activation Patterns Reveal Differences In Neural Representations Of Experimental Pain* Annual Meeting of the United States Association for the Study of Pain
2. **Jordan T**, Lawhorne A, Harper D. (2025) *Functional Connectome Fingerprinting of People with TMD and their subjective pain experience*. Annual Meeting of the United States Association for the Study of Pain
3. Apostol, M.R., Bossé, B., Haase, G., Kim, L., Liu, G., **Jordan, T.**, & Petersen, N. (2024). *Determinants of neuromodulation efficacy in people with tobacco use disorder* Society for Research on Nicotine and Tobacco
4. 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
5. 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
6. **Jordan T**, Apostol M, Petersen N (2023).

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- Neuromodulation reduces brain entropy in people who smoke cigarettes* Annual Meeting of the Organization for Human Brain Mapping
7. **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
  8. **Jordan T**, Apostol M, Petersen N (2023).  
*Neuromodulation reduces brain entropy in people who smoke cigarettes* Annual Meeting of the Brain Stimulation Conference
  9. 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
  10. 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
  11. **Jordan T**, Dhamala M (2019) *Beneficial effects of video game-playing: a look into the brain functional connectivity during perceptual decision-making* BrainModes