August 9th, 2023

Justin Riddle, Ph.D.

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Lab Website: https://www.TheRiddleLab.org

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Google Scholar, NCBI Bibliography, ORCID, Linked-In

Positions

Assistant Professor. Department of Psychology. Florida State University. August 2023 – present.

Lecturer. College of Behavioral and Social Sciences. University of Arizona. August 2023 – present.

Education & Training

Postdoc in Psychiatry, University of North Carolina at Chapel Hill, Chapel Hill, NC, 2018-2023. Primary Mentor: Flavio Frohlich. Clinical Mentor: David Rubinow.

Ph.D. in Psychology in the Cognitive Neuroscience area, University of California, Berkeley, CA 2013-2018. Mentor: Mark D'Esposito. Committee: Robert Knight, Richard Ivry, Michael Silver.

B.A. in Computer Science and Cognitive Science with a Neuroscience concentration with Highest Honors; University of California, Berkeley, CA, 2008-2012.

Past Positions

Scientific Director, Carolina Center for Neurostimulation, University of North Carolina at Chapel Hill, Chapel Hill, NC, 2018-2023.

Research Assistant, Cognitive Neuroscience Lab, Mark D'Esposito, University of California, Berkeley, Berkeley, CA, 2012-2013.

Current Funding

K99/R00 from NIMH. NIH Pathway to Independence Award, Independent Clinical Trial Required PA20-187. K99MH126161. Role: Principal Investigator. Project title: Causal role of delta-beta coupling for goal-directed behavior in anhedonia. Sept. 2021 – Aug. 2026. $992,370.

Past Funding

Foundation of Hope. Seed Research Grant. Role: Principal Investigator. Project Title: Striatum-targeted anhedonia rapid treatment (START): a novel transcranial magnetic stimulation paradigm for treating symptoms of anhedonia in depression. Aug. 2021 - July. 2023. $38,280

T32 Postdoctoral Training from NIMH in reproductive mood disorders at University of North Carolina at Chapel Hill. Role: Trainee. Sept. 2018 – July 2021. $180,000

Graduate Research Fellowship Program from the National Science Foundation. Role: Recipient Trainee. July 2014 - June 2018. $138,000

Awards

American College of Neuropharmacology (ACNP) Travel Award. Four years permitted conference registration, 2022-2025. Airfare, lodging, and registration covered for 2022. Approximately $3000. Mentor-trainee pairing for the 2022 conference.

Travel Award for the Annual Meeting of the Society for Psychophysiological Research. Vancouver, BC, Canada, September 2022. $700

Faces of the Future Flash Talk at the Annual Meeting of the Society for Psychophysiological Research. Vancouver, BC, Canada, September 2022. One of nine early career researchers selected to present during the plenary session.

Scientific Impact Award for work presented at the NYC Neuromodulation and Neuroergonomics Conferences 2022, New York, NY, July 2022.

NYC Neuromodulation Conference 2020. Chosen for the Outstanding Presentation Award.

Cognitive Neuroscience Society, Travel Award. Feb. 2020. $100

Travel Award from the Graduate Student Union at University of California, Berkeley. May 2018. $1500

Publications

h-index 13, total citations 733

1. Riddle, J; Scimeca, J; Pagnotta, M; Inglis, B; Sheltraw, D; D'Esposito, M. A guide for concurrent TMS-fMRI to investigate functional brain networks. *Frontiers in Human Neuroscience-Brain Imaging and Stimulation*. 850. 2022.

2. Clancy JA; Riddle J; Cassano P; Frohlich F. Transcranial Alternating Current Stimulation (tACS) for Major Depressive Disorder. *Psychiatry Annals*. 52(11), 456-460. 2022.

3. Riddle J; Frohlich F. Mental Activity as the Bridge between Neural Biomarkers and Symptoms of Psychiatric Illness. *Clinical EEG and Neuroscience*. 15500594221112417. 2022.

4. Riddle J; Rubinow DR; Frohlich F. Effect of tACS on prefrontal neural activity is menstrual phase dependent in patients with premenstrual dysphoric disorder. *Brain Stimulation*. 15(5), 1088-1090. 2022.

5. Riddle J; Alexander ML; Schiller CE; Rubinow DR; Frohlich F. Reward-based decision-making engages distinct modes of cross-frequency coupling. *Cerebral Cortex*, 32 (10), 2079-2094. 2022.

6. Zhang M; Riddle J; Frohlich F. Closed-loop control of bistable symptom states. Brain Stimulation, 15(2), 454-456. 2022.

7. Riddle J; Alexander ML; Schiller CE; Rubinow DR; Frohlich F. Reduction in left frontal alpha oscillations by transcranial alternating current stimulation in major depressive disorder is context-dependent in a randomized clinical trial. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*. 7(3), 302-311. 2022.

8. Frohlich F; Riddle J. Transcranial alternating current stimulation (tACS) as a treatment for fibromyalgia syndrome? *European Archives of Psychiatry and Clinical Neuroscience*, 1-2, 2022.

9. Frohlich F; Force R; Huang WA; Lustenberger C; McPherson T; Riddle J; Walker C. Target engagement with transcranial current stimulation. 211-42. Chapter in: Brunoni A.R., Nitsche M.A., Loo C.K. (eds) Transcranial Direct Current Stimulation in Neuropsychiatric Disorders. Springer, Cham. 2021.

10. McFerren A*; Riddle J*; Walker CP; Buse JB; Frohlich F. Causal role of frontal-midline theta in cognitive effort: a pilot study. Journal of Neurophysiology. 126 (4). 1221-33. 2021

11. Frohlich F; Riddle J; Abramowitz JS. Transcranial alternating current stimulation for the treatment of obsessive-compulsive disorder? *Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation* 14.4: 1048-1050. 2021.

12. Cellier D*; Riddle J*; Peterson I; Hwang K. The development of theta and alpha neural oscillations from ages 3 to 24 years. *Developmental Cognitive Neuroscience*. 100969. 2021.

13. Riddle J; Frohlich F. Targeting neural oscillations with transcranial alternating current stimulation. *Brain Research*. 147491. 2021.

14. Frohlich F; Riddle J. Conducting Double-Blind Placebo-Controlled Clinical Trials of Transcranial Alternating Current Stimulation (tACS). *Translational Psychiatry*. 11(1), 1-12. 2021.

15. Riddle J; McFerren, A; Frohlich F. Causal role of cross-frequency coupling in distinct components of cognitive control. *Progress in Neurobiology*, 102033, 2021.

16. Riddle J; Rubinow D; Girdler S; Frohlich F. Disinhibition of right inferior frontal gyrus underlies alpha asymmetry in women with low testosterone. *Biological Psychology,* 108061, 2021.

17. Frohlich F; Riddle J; Ugen G; Lersch F. Brainwave entrainment for the treatment of chronic pain: comment on Br J Pain 2020; 14: 161–70. *British Journal of Pain*, 2021.

18. Force R; Riddle J; Jarskog F; Frohlich F. A case study of the feasibility of weekly tACS for the treatment of auditory hallucinations in schizophrenia. *Brain Stimulation*, 14(2), 361-3, 2021.

19. Riddle J; Ahn S; McPherson T; Girdler S*; Frohlich F*. Progesterone modulates theta oscillations in the frontal-parietal network. Psychophysiology, 57(10), e13632, 2020.

20. Riddle J*; Vogelsang D*; Hwang K; Cellier D; D'Esposito M. Distinct oscillatory dynamics underlie different components of hierarchical cognitive control. Journal of Neuroscience, 40(25) 4945-53, 2020.

21. Riddle J; McPherson T; Atkins A; Walker C; Ahn S; Frohlich F. Brain-derived neurotrophic factor (BDNF) polymorphism may influence the efficacy of tACS to modulate neural oscillations. *Brain Stimulation*, 13(4), 998-9, 2020.

22. Riddle J*; Scimeca J*; Cellier D; Dhanani S; D'Esposito M. Causal Evidence for a Role of Theta and Alpha Oscillations in the Control of Working Memory. Current Biology, 30(9), 1748-54, 2020.

23. Riddle J; Rubinow D; Frohlich F. A case study of weekly tACS for the treatment of major depressive disorder. *Brain Stimulation*, 13(3), 576-7, 2020.

24. Alagapan S; Riddle J; Huang WA; Hadar E; Shin HW; Frohlich F. Network-targeted, multi-site direct cortical stimulation enhances working memory by modulating phase lag of low frequency oscillations. Cell Reports, 29(9), 2590-8, 2019.

25. Riddle J; Hwang K; Dhanani S; Cellier D; D'Esposito M. Causal evidence for the role of neuronal oscillations in top-down and bottom-up attention. Journal of Cognitive Neuroscience, 31(5), 768-79, 2019.

26. Riddle J. Causal evidence for neural oscillations in cognition. Doctoral dissertation. University of California, Berkeley, 2018.

27. Rahnev D; Nee DE; Riddle J; Larson AS, D'Esposito M. Causal evidence for frontal cortex organization for perceptual decision making. Proceedngs of the National Academy of Sciences, 113(21), 6059-64, 2016.

28. Cameron IGM; Riddle J; D'Esposito M. Dissociable roles of dorsolateral prefrontal cortex and frontal eye fields during saccadic eye movements. Frontiers in Human Neuroscience, 9(613), 1-14, 2015.

29. Riddle J. BOLD enhancement in oculomotor network following theta burst transcranial magnetic stimulation to right frontal eye fields. Undergraduate honors thesis in Cognitive Science Program, 2012. Mentors: Cameron IGM, D'Esposito M.

* authors contributed equally

Invited Talks

1. Riddle J. Internal representations are prioritized or suppressed by distinct neural oscillatory mechanisms. Florida Consortium on the Neurobiology of Cognition. UF Scripps, Jupiter, FL, USA. May 2023.

2. Riddle J. Leveraging Causal Tools in Cognitive Neuroscience for Personalized Psychiatry. Faces of the Future Flash Talks. Nine early career investigators were selected. Annual Meeting of the Society for Psychophysiological Research. Vancouver, BC, Canada, September 2022.

3. Riddle J. Working memory representations are supported by frontal-parietal theta connectivity and suppressed by parietal-occipital alpha power. Symposium speaker. Annual Meeting of the Society for Psychophysiological Research. Vancouver, BC, Canada, September 2022.

4. Riddle J; Chhatbar P. tES as a tool to pre-condition therapeutic interventions through focal and widespread neural mechanisms. Current Topics in Transcranial Electrical Stimulation Workshop. Workshop. Charleston, SC, USA, June 2022.

5. Riddle J; Kleiner J; McQueen KJ. Quantum mechanics and consciousness. The Science of Consciousness. Workshop. Tucson, AZ, USA. April 2022.

6. Riddle J. Using brain stimulation to improve goal-directed behavior in patients with anhedonia. Early Career Talk, Department of Psychiatry. University of North Carolina at Chapel Hill. Chapel Hill, NC, USA, November 2021.

7. Riddle J. Causal role of cross-frequency coupling in cognitive control. Federation of the European Neuroscience Societies Regional Meeting. Virtual. August 2021.

8. Riddle J. Understanding different dimension of major depressive disorder using cognitive tasks. Cognitive Seminar Series. Psychology and Neuroscience Department, University of North Carolina at Chapel Hill. Chapel Hill, NC, USA, October 2020.

9. Riddle J. Causal role of phase amplitude coupling in different components of hierarchical cognitive control. Brainbox Initiative Conference. Virtual conference. September 2020.

10. Riddle J; Irgen-Gioro S; Schooler J. Nested Observer Windows (NOW): A Theory of Scale-free Cognition. The Science of Consciousness, Tucson, AZ, USA, September 2020.

11. Riddle J; McPherson T; Frohlich F. Causal evidence for a role of theta and alpha oscillations in the control of working memory. Virtual Working Memory Symposium, June 2020.

12. Riddle J. Causal evidence for delta-beta coupling in decision-making: implications for anhedonia. NYC Neuromodulation Online Conference, Virtual, April 2020.

13. Riddle J; Frohlich F. Network Neuromodulation: From Target Engagement to Treatment. Talk presented at the American Society of Neurorehabilitation, San Diego, CA, USA, November 2018.

14. Riddle J. The Homunculus Solution of Nested Consciousness: A Theory of Neural Oscillations. Talk presented at The Science of Consciousness, Tucson, AZ, USA, April 2016.

Session Chair

The Science of Consciousness. Chair of concurrent session, “Measuring and studying consciousness.” Tucson, AZ, USA. April 2022.

Science & Roger Penrose. Live webinar. Chair of plenary session, “Consciousness – orchestrated objective reduction.” August 2021.

The Science of Consciousness. Virtual Conference. Chair of plenary session, “Enhancing consciousness with brain stimulation.” September 2020.

The Science of Consciousness. Chair of concurrent session. Tucson, AZ, USA. April 2018.

The Science of Consciousness. Chair of concurrent session, “Vibrations, Scale, and Topology.” Tucson, AZ, USA. April 2016.

Poster Presentations

1. Riddle, J; Edwards, P; Smoski, M; Schiller, CE; Rubinow, DR; Frohlich, F. Causal role of cross-frequency coupling for effort-based decision-making in patients with major depressive disorders. American College of Neuropsychopharmacology. Tampa, FL, USA. Dec 2023.

2. Bondy, E; Riddle, J; Daughters, S; Schiller, CS; Frohlich, F. Augmenting single-session behavioral activation (BA) with delta-beta transcranial alternating current stimulation (tACS) for the treatment of depression: A double-blind randomized pilot clinical trial. Society of Biological Psychiatry Congress, San Diego, CA, USA, April 2023.

3. Schwippel, T; Galefski, S; Riddle, J; Zhang, M; Frohlich, F; Plewnia, C. Behavioral and neurophysiological effects of transcranial alternating current stimulation (tACS) on an adaptive working memory training. Society of Biological Psychiatry Congress, San Diego, CA, USA, April 2023.

4. Stein, A; Iyer, KK; Dux, PE; Friehs, MA; Riddle, J; Schroeder, PA; Craven, MP; Groom, MJ; Barlow, KM. Home based remotely supervised tDCS in children with acquired brain injury (hrtDCS-Attention): a dose-controlled feasibility study protocol. International Brain Stimulation Conference. Lisbon, Portugal, February 2023.

5. Riddle, J; McFerren, A; Smoski, M; Schiller, C; Rubinow, D; Frohlich, F. Causal role of delta-beta coupling for goal-directed behavior in anhedonia. Society for Neuroscience Conference, San Diego, CA, USA, November 2022.

6. Gerber, S; Riddle, J; LaGarde, H; Zhang, M; Nef, T; Frohlich, F. Intuitive Virtual Reality Based Frontal-Midline Theta Neurofeedback: A Feasibility Study. Society for Neuroscience Conference, San Diego, CA, USA, November 2022.

7. Morgan, HL; Riddle, J; Dong, J; Hopfinger, J. The causal role of frontal gamma oscillations in visual attention: a tACS study. Society for Neuroscience Conference, San Diego, CA, USA, November 2022.

8. Frohlich, A; Zhang, M; LaGarde, H; Riddle, J; Frohlich F. Neural Signatures of Alternate Nostril Breathing: An Observational Study. Society for Neuroscience Conference, San Diego, CA, USA, November 2022.

9. LaGarde, H; Riddle, J; Siekierski, P; Zhang, M; Stewart, D; Sumner, SJ; Liedig, CE; Maggi, RG; Breitschwerdt, EB; Trau, S; Frohlich, F. Network and immunological dysfunction in tic disorders? Society for Neuroscience Conference, San Diego, CA, USA, November 2022.

10. Riddle, J; McPherson, T; Sheikh, A; Shin, H; Hadar, E; Frohlich, F. Causal role of frontal-parietal theta connectivity and lateralized alpha power in the control of working memory. 2022 NYC Neuromodulation & Neuroergonomics Conference. New York, NY, July 2022.

11. Riddle, J; McPherson, T; Sheikh, A; Shin, H; Hadar, E; Frohlich, F. Causal evidence for the role of frontoparietal theta connectivity in the control of working memory. International Conference for Cognitive Neuroscience. Helsinki, Finland, May 2022.

12. Riddle, J; McPherson, T; Frohlich, F. Causal evidence for distinct mechanisms of prioritization and suppression in the control of working memory. 4th Annual International Brain Stimulation Conference, Charleston, SC, USA, December 2021.

13. Riddle, J; Alexander, M; Schiller, C; Rubinow, D; Frohlich, F. Reduction in left frontal alpha oscillations by transcranial alternating current stimulation in major depressive disorder is context-dependent. Society for Neuroscience Conference, Chicago, IL, USA, November 2021.

14. Riddle, J; McPherson, T; Frohlich, F. Causal evidence that theta and alpha neural oscillation dynamically coordinate output-gating. Cognitive Neuroscience Society, Virtual Conference, May 2020.

15. Riddle, J; Alexander, M; McPherson, T; Lapate, R; Schiller, C; Rubinow, D; Frohlich, F. Theta oscillations increase during negative experiences in patients in a depressive episode. Society of Biological Psychiatry, New York, NY, USA, May 2020, cancelled due to COVID.

16. Riddle, J; Alexander, M; McPherson, T; Schiller, C; Rubinow, D; Frohlich, F. Transcranial alternating current stimulation differentially modulates brain activity in depressed patients and healthy controls. Society of Biological Psychiatry, New York, NY, USA, May 2020, cancelled due to COVID.

17. Riddle, J; McPherson, T; Frohlich, F. Theta and alpha frequency neuronal oscillations dynamically guide output-gating. American College of Neuropsychopharmacology meeting, Hollywood, FL, USA, December 2019.

18. Riddle, J; McFerren, A; Frohlich, F. Causal evidence for delta-beta and theta-gamma cross frequency coupling in cognitive control. Society for Neuroscience Conference, Chicago, IL, USA, October 2019.

19. Vogelsang, D; Riddle, J; D'Esposito, M. Frontostriatal interactions during cognitive control. Presented at the Society for Neuroscience Conference, Chicago, IL, USA, October 2019.

20. Cellier, D; Riddle, J; Hwang, K. Developmental increase in 1/f slope in EEG oscillatory power. Society for Neuroscience Conference, Chicago, IL, USA, October 2019.

21. Riddle, J; McFerren, A; Frohlich, F. Causal evidence for delta-beta and theta-gamma cross frequency coupling in different dimensions of cognitive control. Carolina Neurostimulation Conference, Chapel Hill, NC, USA, June 2019.

22. McPherson, T; Riddle, J; Frohlich, F. Interactions between theta and alpha oscillations in the prioritization of working memory representations. Carolina Neurostimulation Conference, Chapel Hill, NC, USA, June 2019.

23. Alexander, M; Riddle, J; McPherson, T; Schiller, C; Rubinow, D; Frohlich, F. Single Session of Transcranial Alternating Current Stimulation (tACS) in a Depressive Episode. Carolina Neurostimulation Conference, Chapel Hill, NC, USA, June 2019.

24. Vogelsang, D; Riddle, J; Hwang, K; Cellier, D; D'Esposito, M. Delta-beta neural oscillations track increased abstraction and theta-gamma oscillations track increased set-size. Society for Neuroscience Conference, San Diego, CA, USA, November 2018.

25. Riddle, J; Cellier, D; Dhanani, S; D'Esposito, M. Reactivation and suppression of representations in working memory using frequency specific TMS. Society for Neuroscience Conference, Washington DC, USA, November 2017.

26. Riddle, J; Cellier, D; Dhanani, S; D'Esposito, M. Causal evidence for the role of neuronal oscillations in top-down and bottom-up attention. Symposium for Neural Oscillations in Speech and Language Processing. Berlin, Germany, May 2017.

27. Muse-Fisher, C; Riddle, J; Scimeca, J; D'Esposito, M. Identification of frontal-striatal circuits with simultaneous TMS-fMRI. Cognitive Neuroscience Society, San Francisco, CA, USA, March 2017.

28. Riddle, J; D'Esposito, M. Beta frequency TMS disrupts top-down cognitive control. Presented at the Society for Neuroscience Conference, San Diego, CA, USA, November 2016.

29. Rahnev, D; Riddle, J; Sheltraw, D; Inglis, B; D'Esposito, M. Investigating brain connectivity with simultaneous TMS-fMRI. Society for Neuroscience Conference, Chicago, IL, USA, October 2015.

30. Riddle, J; Cameron, IGM; Rahnev, D; D'Esposito, M. Investigation of network connectivity with simultaneous TMS-fMRI. Society for Neuroscience Conference, Washington DC, USA, November 2014.

31. Cameron, IGM; Riddle, J; D'Esposito, M. Effects of TMS to frontal eye fields on saccade generation and BOLD signal. Society for Neuroscience Conference, New Orleans, LA, USA, October 2012.

Teaching Experience

Psychobiology 2000: Brain and Behavior. *Primary Instructor*, Fall 2023. Florida State University.

Social and Behavioral Sciences 310: The Science of Consciousness. *Primary Instructor*, Fall 2023. University of Arizona.

Social and Behavioral Sciences 395: Spiritual and Scientific Approaches to Consciousness. *Guest lecturer*. Spring 2023. University of Arizona. Primary Instructor: Thomas Bever.

Psychology 739: Cognitive Neuroscience. *Guest lecturer*. Fall 2018. University of North Carolina at Chapel Hill. Primary instructor: Jessica Cohen.

Cognitive Science 198: Quantum Consciousness. *Course founder and primary instructor*, 13 semesters from Spring 2011 through Fall 2017, University of California, Berkeley. Faculty advisor: David Presti. Upper division course in the department of Cognitive Science (2 course credits). 50-60 students per semester, weekly homework assignments, and final research paper.

Cognitive Science C1: Introduction to Cognitive Science. *Guest lecturer*. Spring 2016. University of California, Berkeley. Primary instructor: Paul Li.

Molecular Cell Biology 61: Brain, Mind and Behavior. *Graduate student instructor, guest lecturer*. Spring 2015. University of California, Berkeley. Primary Instructor: David Presti.

Psychology 117: Human Neuropsychology, Fall 2014, *graduate student instructor*, University of California, Berkeley. Primary Instructor: Mark D'Esposito

Thesis Committee

1. Meyer, Alexandria. Graduate student in cognitive area, Department of Psychology. Primary mentor: Derek Nee.

Mentorship

1. Jackson, Lauren. Post-baccalaureate Lab Manager of the Riddle Lab at FSU. 2023-present.

2. Dias, Lyn. Undergraduate research assistant at University of North Carolina at Chapel Hill. 2023-2023.

3. Mehta, Vanika. Undergraduate research assistant at University of North Carolina at Chapel Hill. 2023-2023.

4. Shah, Kirina. Undergraduate research assistant at University of North Carolina at Chapel Hill. 2022-2023.

5. Wu, Li. Undergraduate research assistant at University of North Carolina at Chapel Hill. 2022-2023.

6. Jackson, Elizabeth. Undergraduate research assistant at University of North Carolina at Chapel Hill. 2022-2023.

7. Gurjar, Prima. Undergraduate research assistant at University of North Carolina at Chapel Hill. 2022-2023.

8. Sodano, Christian. Undergraduate research assistant at University of North Carolina at Chapel Hill. 2022-2023.

9. Edwards, Paul. Post-bachelor research assistant at University of North Carolina at Chapel Hill. Will be pursuing a PhD in clinical psychology. 2022-2023.

10. Rammani, Davindra. Undergraduate research assistant at University of North Carolina at Chapel Hill. Will be pursuing a PhD program. 2019-2022.

11. Blake, Grace. Undergraduate research assistant at University of North Carolina at Chapel Hill. Will be pursuing a MD program. 2021-2022.

12. Bullard, Hayden. Undergraduate research assistant at University of North Carolina at Chapel Hill. 2021-2022.

13. Robinson, Justice. Undergraduate research assistant at University of North Carolina at Chapel Hill. Will be pursuing a MD program. 2020-2022.

14. Rajan, Sandhya Sundar. Undergraduate research assistant at University of North Carolina at Chapel Hill. Will be pursuing a MD program. 2019-2021.

15. Patel, Aarjav. Undergraduate research assistant at University of North Carolina at Chapel Hill. Will be pursuing a MD program. 2019-2020.

16. *McPherson, Trevor*. Post-bachelor research assistant at University of North Carolina at Chapel Hill. Now pursuing his PhD at University of California, San Diego. Co-author in multiple publications. 2018-2020.

17. Milligan, Emma. Undergraduate research assistant at University of North Carolina at Chapel Hill. She is pursuing a PhD at University of Michigan. 2018-2020.

18. Evans, Ellie. Undergraduate research assistant at University of North Carolina at Chapel Hill. 2018-2019.

19. Khosla, Ritika. Undergraduate research assistant at University of North Carolina at Chapel Hill. 2018-2019.

20. *McFerren, Amber*. Undergraduate research assistant at University of North Carolina at Chapel Hill. Now pursuing a MD/PhD at University of Rochester. Co-author in multiple publications. Mentored through submission of her first first-author manuscript. 2018-2022.

21. Reardon, Alexandra. Undergraduate research assistant at University of North Carolina at Chapel Hill. Accepted into Rutgers University MD program. 2018-2020.

22. *Cellier, Dillan*. Undergraduate research assistant at University of California, Berkeley. Primary mentor overseeing her honors project that received High Honors. Co-author in multiple publications. Mentored through submission of her first first-author manuscript. Now pursuing a PhD at University of California, San Diego. 2014-2020.

23. Frisk, Savanah. Undergraduate research assistant at University of California, Berkeley. 2014-2016.

24. *Dhanani, Sofia*. Undergraduate research assistant at University of California, Berkeley. Primary mentor overseeing her senior honors project that received the Glushko prize and Highest Honors. Co-author in multiple publications. Received her medical degree from University of Southern California. 2013-2017.

25. Muse-Fisher, Chris. Undergraduate research assistant at University of California, Berkeley. Received his medical degree at Tufts University. 2015-2016.

26. Afzal, Afsana. Undergraduate research assistant at University of California, Berkeley. Was a research scientist at Massachusetts General Hospital, now in Industry. 2013-2014.

27. Vyoma, Shah. Undergraduate research assistant at University of California, Berkeley. Now pursuing a PhD at University of California, Berkeley. 2013-2014.

Peer-review Services

Addiction Neuroscience

Archives of Clinical Neuropsychology

Biological Psychiatry: Cognitive Neuroscience and Neuroimaging

Brain Stimulation

Brain Topography

Cerebral Cortex

eLife

European Journal of Neuroscience

Frontiers in Human Neuroscience (Review editor from 2020-present)

Human Brain Mapping

International Journal of Psychophysiology

iScience

Journal of Cognitive Neuroscience

Journal of Experimental Psychology

Journal of Vision

Nature Communications

Neuroimage

Neuropsychopharmacology

Proceedings of the National Academy of Science

Scientific Reports

Outreach

Justin Riddle Podcast, Host & Creator. YouTube channel (YouTube.com/justinriddle/) and audio-version on Spotify and Apple Podcast. Since May 2021. www.JustinRiddlePodcast.com.

Triangle Brain Bee, Volunteer, non-profit organization for teaching high school students about neuroscience. Taught a lecture on Brain States in January 2022 and January 2023. Hosted a Summer Research Day showcasing TMS for depression in July 2022.

Interviewed for popular science article. “The Meaning of Life” by Madison Margolin. *DoubleBlind Magazine*. Issue no. 1, pg. 78-79. June 2019. Link: https://doubleblindmag.com/meaning-of-life-neuroscience/

Provided guided tour and demonstration of magnetic resonance imaging and transcranial magnetic stimulation at UC Berkeley’s Brain Imaging Center to high school students. Fall 2014, Fall 2015, Fall 2016, Fall 2017.

Conference Organizer

Virtual Symposium for the Carolina Center for Neurostimulation. Lead organizer. January 2021.

Carolina Neurostimulation Conference 2019. Conference held at the University of North Carolina at Chapel Hill. June 2019.

Foundations of Mind 2. Conference held at the University of California, Berkeley. August 2015.