



John Coetzee

Social Science Research Scholar, Psych/Major Laboratories and Clinical & Translational Neurosciences Incubator

Bio

BIO

John obtained his BA in Psychology from UC Berkeley, where he worked in a sleep and psychopathology lab. He then worked in a depression lab at UCSF before entering a PhD program at UCLA, where he conducted research on the relationship between language and thought under the guidance of Dr. Martin Monti. After completing his doctorate in Cognitive Neuroscience, he returned to the Bay Area where he currently is a postdoctoral researcher at the Palo Alto VA in the lab of Dr. Maheen Adamson, where he is developing new treatments for traumatic brain injury, and at Stanford in the Brain Stimulation Lab, where he is developing new treatments for depression. His current focus in both labs is on noninvasive neuromodulation.

HONORS AND AWARDS

- Graduate Student Departmental Fellowship, University of California, Los Angeles, Dept. of Psychology (2011-2012)
- Graduate Student Research Mentorship, University of California, Los Angeles (2012)

LINKS

- Brain Stimulation Lab: <http://med.stanford.edu/bsl.html>
- Palo Alto VA: <https://www.paloalto.va.gov/>

Publications

PUBLICATIONS

- **Increased cortical thickness and decreased brain age among special operations veterans with blast TBI after a magnesium-ibogaine protocol.** *iScience*
Geoly, A. D., Coetzee, J. P., Buchanan, D. M., Struckmann, W., Kim, B., Sridhar, M., Azeez, A., Lissemore, J. I., Cherian, K., Faerman, A., Keynan, J. N., Singal, P., Shanbour, et al
2026; 29 (3): 115121
- **Complexity or simplicity? A replication analysis of low heart rate as a predictor of TMS response in major depressive disorder.** *European neuropsychopharmacology : the journal of the European College of Neuropsychopharmacology*
Kozyr, L., Kaloiani, I., Wada, M., Coetzee, J. P., Austelle, C. W., Rolle, C. E., Williams, N., Arns, M.
2026; 107: 112796
- **Chronometric Interleaved TMS-fMRI shows State-dependent Network Effects underlying Speech Production.** *Brain stimulation*
Vasileiadi, M., Schuler, A. L., Woletz, M., Witz, V., Grosshagauer, S., Coetzee, J., Tik, M.
2025: 103010
- **Mystical experiences during magnesium-ibogaine are associated with improvements in PTSD symptoms in veterans.** *Journal of affective disorders*
Brown, R., Lissemore, J., Shinozuka, K., Coetzee, J., Faerman, A., Olash, C., Geoly, A., Buchanan, D., Cherian, K., Chaiken, A., Shamma, A., Sridhar, M., Hunegnaw, et al

2025: 120722

- **Evaluation of temperature elevation associated with low-intensity focused ultrasound (LIFU) stimulation with or without a deep brain electrode.** *Brain stimulation*
Rao, V., Coetzee, J., Perez, L., Penalba, A., Adamson, M., Yoon, B. C.
2025
- **Trigeminal Nerve Stimulation as a Semi-Active Control Condition in TMS Clinical Trials: Evidence From Heart-Brain Coupling and Clinical Outcomes.** *Brain stimulation*
Arns, M., Williams, N., Downar, J., Dojnov, A., Coetzee, J., Goya-Maldonado, R.
2025
- **A 12-month follow-up of magnesium-ibogaine therapy (MISTIC) in Special Operations Veterans with traumatic brain injuries**
Faerman, A., Cherian, K., Lissemore, J., Geoly, A., Sridhar, M., Anker, L., Kim, B., Coetzee, J., Shama, A., Keynan, J., Brown, R., Phillips, A., Jester, et al
MARY ANN LIEBERT, INC.2025
- **Sex differences among predictors of brain age gap among patients with traumatic brain injuries and healthy controls**
Coetzee, J., Kang, X., Luttenbacher, I., Liou-Johnson, V., Seenivasan, S., Eshghi, E., Baldini, D., Grewal, D., Hillary, F., Dennis, E., Adamson, M.
MARY ANN LIEBERT, INC.2025
- **Evaluation of temperature elevation associated with low-intensity focused ultrasound (LIFU) stimulation with or without a deep brain electrode**
Rao, V., Coetzee, J., Adamson, M., Buch, V., Perez, L., Yoon, B. C.
MARY ANN LIEBERT, INC.2025
- **A new flexible coil setup to measure interleaved TMS-fMRI response during accelerated iTBS.** *Brain stimulation*
Tik, M., Coetzee, J., Kerr, A., Johnson, N., Geoly, A., Sridhar, M., Hunegnaw, S. A., Veerapal, C., Rolle, C., Williams, N.
2025
- **Predicting brain age for veterans with traumatic brain injuries and healthy controls: an exploratory analysis** *FRONTIERS IN AGING NEUROSCIENCE*
Coetzee, J. P., Kang, X., Liou-Johnson, V., Luttenbacher, I., Seenivasan, S., Eshghi, E., Grewal, D., Shah, S., Hillary, F., Dennis, E. L., Adamson, M. M.
2025; 17: 1472207
- **Higher Intensity of Mystical Experience Following Magnesium-Ibogaine is Associated With Larger Decreases in PTSD Severity**
Brown, R., Coetzee, J., Lissemore, J., Faerman, A., Olash, C., Buchanan, D., Geoly, A., Cherian, K., Adamson, M., Rolle, C., Williams, N.
ELSEVIER SCIENCE INC.2025: S274-S275
- **Corrigendum to "Low-intensity focused ultrasound (LIFU) for the treatment of post-traumatic headache (PTH) in veterans: A feasibility study" [Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation, vol. 17 (2024), pg. 1290-1292/No. 6].** *Brain stimulation*
Yoon, B. C., Coetzee, J. P., Kang, X., Brar, R., Timmerman, M., Harris, O., Madrigal, E., Adamson, M. M.
2025; 18 (2): 211
- **Effect of DLPFC rTMS on anhedonia and alpha asymmetry in depressed patients.** *Scientific reports*
Kazemi, R., Rostami, R., Hadipour, A. L., Zandbagleh, A., Khomami, S., Kiaee, N., Coetzee, J. P., Philips, A., Mausoo Adamson, M.
2025; 15 (1): 899
- **Low-intensity focused ultrasound (LIFU) for the treatment of post-traumatic headache (PTH) in veterans: a feasibility study.** *Brain stimulation*
Yoon, B. C., Coetzee, J. P., Kang, X., Brar, R., Timmerman, M., Harris, O., Madrigal, E., Adamson, M. M.
2024
- **Magnesium-ibogaine therapy in veterans with traumatic brain injuries.** *Nature medicine*
Cherian, K. N., Keynan, J. N., Anker, L., Faerman, A., Brown, R. E., Shamma, A., Keynan, O., Coetzee, J. P., Batail, J., Phillips, A., Bassano, N. J., Sahlem, G. L., Inzunza, et al
2024
- **Transcranial Magnetic Stimulation-Induced Heart-Brain Coupling: Implications for Site Selection and Frontal Thresholding-Preliminary Findings.** *Biological psychiatry global open science*

Dijkstra, E., van Dijk, H., Vila-Rodriguez, F., Zwienenberg, L., Rouwhorst, R., Coetzee, J. P., Blumberger, D. M., Downar, J., Williams, N., Sack, A. T., Arns, M.

2023; 3 (4): 939-947

- **Predictors of brain age gap among patients with traumatic brain injuries and healthy controls**

Adamson, M., Coetzee, J., Kang, X., Luttenbacher, I., Liou-Johnson, V., Seenivasan, S., Dennis, E., Hillary, F.
TAYLOR & FRANCIS LTD.2023: 195-196

- **Dissociating Language and Thought in Human Reasoning.** *Brain sciences*

Coetzee, J. P., Johnson, M. A., Lee, Y., Wu, A. D., Iacoboni, M., Monti, M. M.
2022; 13 (1)

- **Electrophysiological and behavioral effects of unilateral and bilateral rTMS; A randomized clinical trial on rumination and depression.** *Journal of affective disorders*

Kazemi, R., Rostami, R., Nasiri, Z., Hadipour, A. L., Kiaee, N., Coetzee, J. P., Philips, A., Brown, R., Seenivasan, S., Adamson, M. M.
2022

- **Ultrasonic Deep Brain Neuromodulation in Acute Disorders of Consciousness: A Proof-of-Concept.** *Brain sciences*

Cain, J. A., Spivak, N. M., Coetzee, J. P., Crone, J. S., Johnson, M. A., Lutkenhoff, E. S., Real, C., Buitrago-Blanco, M., Vespa, P. M., Schnakers, C., Monti, M. M.
2022; 12 (4)

- **Prediction of Brain Age for Healthy Individuals and Patients with Traumatic Brain Injuries**

Adamson, M., Kang, X., Luttenbacher, I., Coetzee, J., Liou-Johnson, V., Dennis, E., Hillary, F.
TAYLOR & FRANCIS LTD.2022: 98-99

- **Fiber tract integrity in patients with brain injury and chronic health symptoms.** *Neuroimage. Reports*

Kang, X., Coetzee, J. P., Main, K. L., Seenivasan, S., Zhu, K., Adamson, M. M.
2021; 1 (4): 100047

- **Stanford Neuromodulation Therapy (SNT): A Double-Blind Randomized Controlled Trial.** *The American journal of psychiatry*

Cole, E. J., Phillips, A. L., Bentzley, B. S., Stimpson, K. H., Nejad, R., Barmak, F., Veerapal, C., Khan, N., Cherian, K., Felber, E., Brown, R., Choi, E., King, et al
2021: appiajp202120101429

- **Ultrasonic Thalamic Stimulation in Chronic Disorders of Consciousness.** *Brain stimulation*

Cain, J. A., Spivak, N. M., Coetzee, J. P., Crone, J. S., Johnson, M. A., Lutkenhoff, E. S., N P, C. R., Buitrago-Blanco, M., Vespa, P. M., Schnakers, C., Monti, M. M.
2021

- **Stanford Accelerated Intelligent Neuromodulation Therapy for Treatment-Resistant Depression.** *The American journal of psychiatry*

Cole, E. J., Stimpson, K. H., Bentzley, B. S., Gulser, M. n., Cherian, K. n., Tischler, C. n., Nejad, R. n., Pankow, H. n., Choi, E. n., Aaron, H. n., Espil, F. M., Pannu, J. n., Xiao, et al
2020: appiajp201919070720

- **International Prevalence and Correlates of Psychological Stress during the Global COVID-19 Pandemic.** *International journal of environmental research and public health*

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- **At the core of reasoning: Dissociating deductive and non-deductive load** *HUMAN BRAIN MAPPING*

Coetzee, J. P., Monti, M. M.
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- **Leukocyte telomere length predicts SSRI response in major depressive disorder: A preliminary report.** *Molecular neuropsychiatry*

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