

Kevin T Jones, PhD

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Education & Appointments

Specialist

University of California, San Francisco 2021-current
Department of Neurology/Neuroscape
Advisors: Drs. Theodore Zanto & Adam Gazzaley

Postdoctoral Scholar

University of California, San Francisco 2018-2021
Department of Neurology/Neuroscape
Advisors: Drs. Theodore Zanto & Adam Gazzaley

Colorado State University 2017-2018
Center for Applied Cognitive Neuroscience
Advisor: Dr. Donald Rojas

Georgetown University Medical Center 2014-2016
Department of Neurology
Advisor: Dr. Rhonda Friedman

Ph.D. (Psychology) 2012-2014
University of Nevada, Reno
Advisor: Dr. Marian Berryhill

M.A. (Psychology) 2009-2012
University of Nevada, Reno
Advisor: Dr. Marian Berryhill

B.A. (Psychology) 2003-2007
University of Kansas

Publications

Jones, K.T., Johnson, E.L., Tauxe, Z.S., Rojas, D.C. (2020). Modulation of auditory gamma-band responses using transcranial electrical stimulation. *Journal of Neurophysiology* 123(6), 2504-2514.

Jones, K.T., Johnson, E.L., Berryhill, M.E. (2020). Frontoparietal theta-gamma interactions track working memory enhancement with training and tDCS. *NeuroImage* 211, 116615.

Jones, K.T., Arciniega, A., Berryhill, M.E. (2019). Replacing tDCS with theta tACS provides selective, but not general WM benefits. *Brain Research* 1720, 146324.

Berryhill, M.E., Arciniega, A., **Jones, K.T.**, Stephens, J.A., Gözenman, F. (2019). Who, what, where and how much: tDCS and training effects on working memory. *Brain Stimulation* 12(2), 460.

Arciniega, H., Gözenman, F., **Jones, K.T.**, Stephens, J.A., Berryhill, M.E. (2018). Frontoparietal tDCS benefits visual working memory in older adults with low working memory capacity. *Frontiers in Aging Neuroscience* 10, 57.

Stephens, J.A.*, **Jones, K.T.***, Berryhill, M.E. (2017). Visual and spatial working memory performance is influenced by COMT val¹⁵⁸met and modulated by non-invasive neurostimulation and working memory training. *Nature Scientific Reports* 7, 13463. *indicates co-first author

Jones, K.T., Peterson, D.J., Blacker, K.J., Berryhill, M.E. (2017). Frontoparietal neurostimulation modulates working memory training benefits and oscillatory synchronization. *Brain Research* 1667, 28-40.

Friedman, R.B., Sullivan, K.L., Snider, S.F., Luta, G., **Jones, K.T.** (2017). Leveraging the Test Effect to improve maintenance of the gains achieved through cognitive rehabilitation. *Neuropsychology* 31(2), 220-228.

- Jones, K.T.**, Stephens, J.A., Alam, M., Bikson, M., Berryhill, M.E. (2015). Longitudinal neurostimulation in older adults improves working memory. *PLoS ONE* 10, 4.
- Jones, K.T.**, Gözenman, F., Berryhill, M.E. (2015). The strategy and motivational influences on the beneficial effect of neurostimulation: a tDCS and fNIRS study. *NeuroImage* 105, 238-247.
- Peterson, D.J., **Jones, K.T.**, Stephens, J.A., Gözenman, F., Berryhill, M.E. (2015). Childhood memory: an update from the cognitive neuroscience perspective. In: W. O'Donohue and M. Fanetti (eds.) *Forensic interviews regarding child sexual abuse: a guide to evidence-based practice*, pp. 81-106. Springer.
- Jones, K.T.**, Gözenman, F., Berryhill, M.E. (2014). Influences on the beneficial effect of neurostimulation. *Visual Cognition* 22(8), 1024-1038.
- Jones, K.T.**, Gözenman, F., Berryhill, M.E. (2014). Enhanced long-term memory encoding after parietal neurostimulation. *Experimental Brain Research* 232(12), 4043-4054.
- Berryhill, M.E., Peterson, D.J., **Jones, K.T.**, Stephens, J.A. (2014). Hits and misses: leveraging tDCS to advance cognitive research. *Frontiers in Psychology* 5, 800.
- Tanoue, R.T., **Jones, K.T.**, Peterson, D.J., Berryhill, M.E. (2012). Differential frontal involvement in shifts of internal and perceptual attention. *Brain Stimulation* 6, 675-682.
- Jones, K.T.**, Berryhill, M.E. (2012). Parietal contributions to visual working memory depend on task difficulty. *Frontiers in Psychiatry* 3, 81.
- Berryhill, M.E. & **Jones, K.T.** (2012). tDCS selectively improves working memory in older adults with more education. *Neuroscience Letters* 521, 148-151.
- Berryhill, M.E., Peterson, D., **Jones, K.T.**, Tanoue, R. (2012). Cognitive disorders. In: V.S. Ramachandran (ed.) *Encyclopedia of Human Behavior*, vol. 1, pp. 536-542. Academic Press.

Current Research

- (Under review) Zanto, T.P., **Jones, K.T.**, Ostrand, A.E., Hsu, W., Campusano, R., Gazzaley, A. Individual differences in neuroanatomy and neurophysiology predict effects of non-invasive neurostimulation.
- (Manuscript preparation) Arciniega, H., Johnson, E.L., **Jones, K.T.**, Berryhill, M.E. Understanding the neural mechanism by which neurostimulation drives visual working memory: an inside view of neurostimulation decay.
- (Manuscript preparation) **Jones, K.T.**, Johnson, E.L., Zanto, T.P. Functional and structural connectivity following cognitive control training and non-invasive neurostimulation in healthy older adults.
- (Manuscript preparation) **Jones, K.T.**, Simon, A., Zanto, T.P. Resting state changes in the human electroencephalogram following non-invasive neurostimulation and cognitive control training.
- (Manuscript preparation) **Jones, K.T.**, Gazzaley, A., Zanto, T.P. Remote neurostimulation and cognitive control training.
- (Data collection) **Jones, K.T.**, Gazzaley, A., Zanto, T.P. Enhancing cognitive control in amnesic mild cognitive impairment via noninvasive brain stimulation.
- (Data collection) **Jones, K.T.**, Gazzaley, A., Zanto, T.P. Feasibility of gamma stimulation to reduce beta-amyloid load across species.

Invited Seminars & Colloquia

University of Nevada, Reno	2020
University of California, Berkeley	2020
University of San Francisco	2020
University of California, San Francisco	2018
Wright State University/Air Force Research Laboratory	2018
Halo Neuroscience	2018
Colorado State University	2018

University of Nevada, Reno	2017
Colorado State University	2016
Johns Hopkins University	2015

Conference Presentations (❖Talk •Poster; last 10 years)

- Arciniega, H., Johnson, E.L., **Jones, K.T.**, Kilgore-Gomez, A., Berryhill, M.E. TDCS targeting frontoparietal networks modulates theta to (temporarily) improve visual working memory in older adults. Cognitive Neuroscience Society [Online Conference]. March 2021.
- Zanto, T.P., **Jones, K.T.**, Ostrand, O.E., Hsu, W.Y., Campusano, R., Gazzaley, A. Individual differences in neuroanatomy and neurophysiology predict effects of transcranial alternating current stimulation. NYC Neuromodulation 2020 [Online Conference]. December 2020.
- **Jones, K.T.**, Zanto, T.P., Ostrand, A.E., Gazzaley, A. Individual differences in neuroanatomy predict neurostimulation related multitasking gains in older adults. Cognitive Neuroscience Society conference. [Online Conference]. May 2020.
- **Jones, K.T.**, Tauxe, Z.S., Johnson, E.L., Rojas, D.C. Modulation of auditory gamma-band responses using transcranial electrical stimulation. Cognitive Neuroscience Society conference. San Francisco, CA. Mar 2019.
- ❖ Berryhill, M.E., Arciniega, H., **Jones, K.T.**, Stephens, J.A., Gözenman, F. Who, what, where and how much: tDCS and training effects on working memory. Brain Stimulation conference. Vancouver, BC. Feb 2019.
- ❖ Johnson, E.L., **Jones, K.T.**, Berryhill, M.E., When less is more: frontoparietal neurostimulation targets the cross-frequency neural code for working memory. Society for Neuroscience conference. San Diego, CA. Nov 2018.
- **Jones, K.T.**, Johnson, E.L., Peterson, D.J., Berryhill, M.E. Alpha and theta phase amplitude coupling is strengthened following working memory training and neurostimulation. Cognitive Neuroscience Society conference. Boston, MA. Mar 2018.
- **Jones, K.T.**, Arciniega, H., Shepack, J., Carrasco, C., Berryhill, M.E. tACS on, tACS off: entrainment of neural oscillations during working memory. Cognitive Neuroscience Society conference. Boston, MA. Mar 2018.
- ❖ **Jones, K.T.**, Stephens, J.A., Berryhill, M.E. Prefrontal dopamine metabolism predicts neurostimulation-linked working memory training gains. Cognitive Neuroscience Society conference. San Francisco, CA. Mar 2017.
- **Jones, K.T.**, Stephens, J.A., Berryhill, M.E. Prefrontal dopamine metabolism predicts neurostimulation-linked working memory training gains. Cognitive Neuroscience Society conference. San Francisco, CA. Mar 2017.
- Friedman, R.B., Snider, S.F., **Jones, K.T.** Leveraging the test effect to improve maintenance of the gains achieved through cognitive rehabilitation. Cognitive Neuroscience Society conference. San Francisco, CA. Mar 2017.
- Friedman, R.B., Meyer, A., Sullivan, K.S., Snider, S.F., **Jones, K.T.** Maintenance of treatment effects in anomia rehabilitation. Academy of Aphasia conference. Llandudno, Wales, UK. Oct 2016.
- ❖ Blacker, K.J., Peterson, D.J., **Jones, K.T.**, Berryhill, M.E. Visual working memory training with non-invasive neurostimulation increases low frequency phase synchrony. Vision Sciences Society conference. St. Pete Beach, FL. May 2016.
- ❖ **Jones, K.T.**, Gözenman, F., Berryhill, M.E. Influences on the beneficial effect of neurostimulation. Object Perception, Attention, and Memory conference. Long Beach, CA. Nov 2014.
- Gözenman, F., **Jones, K.T.**, Berryhill, M.E. The strategy and motivational influences on the beneficial effect of neurostimulation: a tDCS and fNIRS study. fNIRS Conference. Montreal, QB. Nov 2014.
- Peterson, D.J., **Jones, K.T.**, Dimotsantos, G.G., Berryhill, M. E. Frontoparietal transcranial direct current stimulation modulates working memory training benefits and event-related scalp topography. Cognitive Neuroscience Society conference. Boston, MA. Apr 2014.
- **Jones, K.T.**, Stephens, J.A., Berryhill, M.E. Frontoparietal tDCS improves cognition in healthy aging. Object Perception, Attention, and Memory conference. Toronto, ON. Nov 2013.
- Berryhill, M.E., **Jones, K.T.**, Stephens, J.A., Peterson, D.J. When does frontoparietal neurostimulation benefit visual working memory in the healthy aging? Western IDeA Conference, Honolulu, HI. Oct 2013.

- **Jones, K.T.**, Gözenman, F., Berryhill, M.E. Transcranial direct current stimulation facilitates episodic memory encoding. Cognitive Neuroscience Society conference. San Francisco, CA. Apr 2013.
- **Jones, K.T.**, Berryhill, M.E. Individual differences in working memory capacity modulate the effect of transcranial direct current stimulation to parietal cortex. Cognitive Neuroscience Society conference. Chicago, IL. Apr 2012.
- **Jones, K.T.**, Crane, C., Feenstra, A., Berryhill, M.E. Task difficulty and individual differences modulates the effect of transcranial direct current stimulation. Sierra Nevada Chapter for the Society of Neuroscience conference. Reno, NV. Dec 2011.
- **Jones, K.T.**, Berryhill, M.E. Task difficulty modulates the effect of transcranial direct current stimulation in visual working memory tasks. Bay Area Vision Research Day. Berkeley, CA. Aug 2011.
- **Jones, K.T.**, Elliott, E., Berryhill, M.E. Temporal durations in working memory. Sierra Nevada Chapter for the Society of Neuroscience conference. Reno, NV. May 2011.
- Tanoue, R., Peterson, D.J., **Jones, K.T.**, Berryhill, M.E. Attention needs time to shift between items in working memory. Cognitive Neuroscience Society conference, San Francisco, CA. Apr 2011.

Professional Service

Guest Editor

<i>Journal of Neuroscience Research</i>	2020-2021
In Focus issue: Neural substrates of cognitive changes in humans	
<i>Frontiers for Young Minds</i>	2020-2021
Special Topic: New technologies to improve brain health	

Ad Hoc Manuscript Reviewer

<i>Ageing Research Reviews</i>	<i>Human Brain Mapping</i>
<i>Behavioural Brain Research</i>	<i>Journal of Neurophysiology</i>
<i>Brain and Behavior</i>	<i>Learning & Memory</i>
<i>Brain Research</i>	<i>Nature Scientific Reports</i>
<i>Brain Stimulation</i>	<i>NeuroImage</i>
<i>Cerebral Cortex</i>	<i>Neuromodulation: Technology at the Neural Interface</i>
<i>Clinical Research and Regulatory Affairs</i>	<i>Neuroscience Letters</i>
<i>European Journal of Neuroscience</i>	<i>Neuropsychologia</i>
<i>Frontiers in Human Neuroscience</i>	<i>Transactions on Neural Systems and Rehabilitation Engineering</i>
<i>Frontiers in Psychology</i>	

Ad Hoc Grant Reviewer

U.S. Army Combat Capabilities Development Command

Expert Science Book Reviewer

Be Smarter Now, Odd Dot Books, Macmillan Publishers, New York, New York

University Service

Grants and guest speaker committee chair (Georgetown-Howard Universities)

Graduate Students for the Advancement of Neuroscience founder (University of Nevada, Reno)

University Teaching

University of San Francisco	
Cognitive Neurotherapeutics (guest lecturer; undergraduate)	2019, 2021
Colorado State University	
Human Aging and Training Course (guest lecturer; graduate)	2017
University of Nevada, Reno	
Cognitive Neuroscience Laboratory (guest lecturer; undergraduate)	2017, 2014

Human Physiology Laboratory (guest lecturer; undergraduate)	2012, 2011
Human Memory (instructor; undergraduate)	2012, 2011
Cognitive Psychology (teaching assistant; undergraduate)	2012, 2011
Experimental Psychology Laboratory (instructor; undergraduate)	2011, 2010

Memberships

American Association for the Advancement of Science
 American Psychological Association
 Cognitive Neuroscience Society
 National Postdoctoral Association
 The Psychonomics Society
 University of California, San Francisco, Science Policy Group

Awards & Grants

2016-2018: National Institutes of Health (NIH) Clinical Loan Repayment Program (LRP) Grant. Approved by the National Institute on Deafness and Other Communication Disorders (NIDCD).

2015-2016: Georgetown-Howard Universities Center for Clinical Sciences Translational Biomedical Sciences: TL1 training grant.

2015: University of Michigan Training Course in fMRI

2014: University of Nevada Graduate Student Association Best Research Paper Award

2012: University of Nevada Graduate Student Association Best Research Paper Award

2012: First place original undergraduate research poster (Mentored undergraduate)

2010-2014: Graduate student travel award

2010-2014: Psychology department travel award

2006 & 2007: University of Kansas German honors award

Community Outreach

Bay Area Science Festival	2019-2020
Neuroscape Open House (University of California, San Francisco)	2019-2020
Georgetown University graduate research day (Judge)	2014-2016
Reno senior center research outreach organizer	2010-2012
Brain Awareness week organizer (University of Nevada, Reno)	2012-2014

Other Professional Experience

Outreach Coordinator DigiPen Institute of Technology Conducted community outreach that allowed children and adolescents to learn computer programming, graphic design, and video game design. Managed student teachers and organized enrollment of courses.	2008-2009
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Mentoring

Graduate students	Katherine Becker (CSU)	Gabriella Dimotsantos (UNR)
Adelle Cerreta (UNR)	Riley Kellermeyer (UNR)	Jennifer Shepack (UNR, UW)
Candace Peacock (UNR, UCD)	Robert Torrance (CSU)	Luke Schirmer (CSU)
Carlos Carrasco (UNR, UCD)		Rachael Campbell (Georgetown)
Hector Arciniega (UNR; NIH D-SPAN award)	Undergraduate students	Shelby McGowan (Georgetown)
	Caitlyn Crane (UNR)	Sierra Hope (UNR)

Zoë Tauxe (CSU, UCSD)

Clinical research coordinators

Avery Ostrand (UCSF)
Jessica Schactner (UCSF)
Vinith Johnson (UCSF)

Laboratory interns

Amber Kang (UCSF)
Birute Gedrimaite (UCSF,
Stanford)
Carson Smith (UCSF)

Jasmine Grewal (UCSF)

Lindsay Lau (UCSF)

Micah Rodriguez (UCSF)

Nikita Chigullapally (UCSF)

Raghav Madan (UCSF)