

# Chivon E. Powers

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## *Education*

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| 2013      | PhD, Brain Behavior & Cognition<br>Cognitive Science Specialist<br>Northwestern University, Chicago, IL |
| 2010      | M.S., Brain Behavior & Cognition<br>Northwestern University, Chicago, IL                                |
| 2006      | B.S., Psychology Minor: Cognitive Science<br>Brooklyn College – CUNY, Brooklyn, NY                      |
| 2001-2003 | Undergraduate Coursework<br>University of Vermont, Burlington, VT                                       |

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## *Fellowships & Grants*

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| 2014-2016 | Varela Research Award for Contemplative Science, Mind & Life Institute    |
| 2012-2013 | Neuroscience of Human Cognition Training Grant Appointment, NINDS         |
| 2010-2011 | Graduate Research Grant, Northwestern University                          |
| 2009-2012 | Neuroscience Scholars Program Fellowship, Society for Neuroscience        |
| 2009-2012 | National Science Foundation Graduate Research Fellowship                  |
| 2008-2009 | Incoming Cognitive Science Fellowship, Northwestern University            |
| 2005      | National Science Foundation Summer Research Experience for Undergraduates |

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## *Research Experience & Training*

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| June, 2013-<br>April, 2016 | Postdoctoral Scholar, Center for Mind & Brain, University of California – Davis   |
| July, 2010                 | ERP Bootcamp Trainee. University of California - Davis, Davis, CA   |
| June, 2009-<br>July, 2009  | Summer Program in Neuroscience, Ethics, and Survival (SPINES) Trainee.<br>NIMH and Marine Biological Laboratory, Woodshole, MA. |
| July, 2006-<br>July, 2008  | Research Specialist. University of Pennsylvania. Philadelphia, PA   |
| June, 2005-<br>Aug., 2005  | Summer Research Scholar. University of Wisconsin. Madison, WI   |
| Aug., 2004-<br>May, 2005   | Research Assistant. Brooklyn College, Brooklyn, NY  |

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### Teaching Experience

Summer, 2012 **Psych 228:** Cognitive Psychology, Instructor  
Winter, 2012 **Psych 314:** Buddhist Psychology, Teaching Assistant  
Fall, 2010 **Psych 110:** Introduction to Psychology, Teaching Assistant  
Spring, 2009 **Psych 201:** Statistical Methods in Psychology, Teaching Assistant  
Winter, 2009 **CogSci 210:** Language & the Brain, Teaching Assistant

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### Publications

Zanesco, A,

- Zanesco, A, King, B, **Powers, C**, Wineberg, K, MacLean, K, & Saron, C. (2019). Modulation of Event-related Potentials of Visual Discrimination by Meditation Training and Sustained Attention. *Journal of Cognitive Neuroscience*. 31:8 1184-1204.
- Schmalzl, L, **Powers, C**, Zanesco, A, Yetz, N, Groessl, E & Saron, C. (2018). The effect of movement-focused and breath-focused yoga practice on stress parameters and sustained attention: A randomized controlled pilot study. *Consciousness and Cognition*. 65. 109-125.
- Schmalzl, L, **Powers, C**, Henje Blom, E. (2015). Neurophysiological and neurocognitive mechanisms underlying the effects of yoga-based practices: Towards a comprehensive theoretical framework. *Frontiers in Human Neuroscience*. 9:235, 1-19.
- Powers, C**, Bencic, R., Horton, W.S., Beeman, M. (2012). Hemispheric inference priming during comprehension of conversation and narrative. *Neuropsychologia*. 50 (11): 2577-2583.
- Eslinger, P, Moore, P, Antani, S, **Anderson C**, Grossman, M. (2012). Apathy and frontotemporal dementia: Behavioral and neuroimaging correlates. *Behavioral Neurology*, 25, 127-136.
- Eslinger, P, Moore, P, **Anderson, C**, Grossman, M. (2011). Social cognition, executive functioning, and neuroimaging correlates of empathic deficits in frontotemporal dementia. *Journal of Neuropsychiatry and Clinical Neuroscience*, 23 (1): 74-82.
- Grossman, M, Eslinger, P, Troiani, V, **Anderson C**, Avants B, Gee J, McMillan C, Massimo L, Khan A, Antani S. (2010) The role of ventral medial prefrontal cortex in social decisions: Converging evidence from fMRI and frontotemporal dementia. *Neuropsychologia*, 48: 3505-3512.
- Farag C, Troiani V, Bonner M, **Powers C**, Avants B, Gee J, Grossman M. (2010). Hierarchical Organization of Scripts: Converging Evidence from fMRI and Frontotemporal Degeneration. *Cerebral Cortex*. 20 (10): 2453-2463.
- Koss S, Clark R, Vesely L, Weinstein J, **Powers C**, Richmond L, Farag C, Gross R, Liang T-W, Grossman M. (2010). Numerosity Impairment in Corticobasal Syndrome. *Neuropsychology*, 24(4): 476-492.
- Gross R, Ash S, McMillan C, Gunawardena D, **Powers C**, Libon D, Moore P, Liang T-W, Grossman M. (2010). Impaired Information Integration Contributes to Communication Difficulty in Corticobasal Syndrome. *Cognitive and Behavioral Neurology*. 23(1): 1-7.
- Libon D, McMillan C, Gunawardena D, **Powers C**, Massimo L, Khan A, et al. (2009). Neurocognitive Contributions to Verbal Fluency Deficits in Frontotemporal Lobar Degeneration. *Neurology*. 73: 535-542.

- Listerud J, **Powers C**, Moore P, Libon D, Grossman M. (2009). Neuropsychological Patterns in MRI-defined subgroups of patients with degenerative dementia. *Journal of the International Neurological Society*. 15(3):459-470.
- Bonner M, Vesely L, Price C, **Anderson C**, Richmond L, Farag C, Avants B, Grossman M. (2009). Reversal of the Concreteness Effect in Semantic Dementia. *Cognitive Neuropsychology*. 26(6):568-579.
- Ash S, Moore P, Vesely L, Gunawardena D, McMillan C, **Anderson C**, Avants B, Grossman M. (2009). Non-fluent Speech in Frontotemporal Lobar Degeneration. *Journal of Neurolinguistics*. 22(4):370-383.
- Massimo L, **Powers C**, Moore P, Avants B, Libon D and Grossman M. (2009). Neuroanatomy of apathy and disinhibition in frontotemporal lobar degeneration. *Dementia & Geriatric Cognitive Disorders*. 27:96-104.
- Grossman M, **Anderson C**, Khan A, Avants B, Elman L, McCluskey L. (2008). Impaired Action Knowledge in Amyotrophic Lateral Sclerosis. *Neurology*. 71: 1396-1401.
- Koenig P, Smith EE, Troiani V, **Anderson C**, Moore P, Cross K, Grossman M. (2008) Medial temporal lobe involvement in an implicit memory task: evidence of collaborating implicit and explicit memory systems in fMRI and Alzheimer's disease. *Cerebral Cortex*. 18(12):2831-2843.
- Chen-Plotkin AS, Yuan W, **Anderson C**, McCarty-Wood E, Hurtig HI, Lee VMY, Trojanowski JQ, Grossman M, Van Deerlin VM. (2008). Corticobasal syndrome and primary progressive aphasia as a manifestation of two different LRRK2 gene mutations. *Neurology*. 70:521-527.
- Grossman M, Libon D, Forman MS, Massimo L, Wood E, Moore P, **Anderson C**, Farmer J, Chatterjee A, Clark CM, Coslett HB, Hurtig HI, Lee VMY, Trojanowski JQ. (2007). Distinct antemortem profiles in pathologically-defined patients with frontotemporal dementia. *Arch Neurol*. 64:11, 1601-1609.
- Anderson C**, Avants B, Grossman M. (2007) Patterns of brain volume loss associated with letter-guided and semantically-guided category naming. *Brain and Language*, 103, 134-135.
- Avants B, **Anderson C**, Grossman M, Gee J. (2007) Spatiotemporal normalization for longitudinal analysis of gray matter atrophy in frontotemporal dementia. *Lecture Notes in Computer Science. MICCAI*. 303-310.

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#### *Poster Presentations*

- Powers, C.**, Schmalzl, L., Zanesco, A., Yetz, N., Groessl, E., Saron, C.D. (April, 2016). Breath-focused yoga facilitates perceptual sensitivity and vigilant attention more than movement-focused yoga. Cognitive Neuroscience Society, New York, NY.
- Saron, C.D., **Powers, C.**, Zanesco, T., King, B., Wineberg, K. (April, 2016). Longitudinal training in meditation is associated with decreased prestimulus alpha during a sustained attention task. Cognitive Neuroscience Society. New York, NY.
- Powers, C.**, Zanesco, T., Wineberg, K., King, B., Maclean, K., Aichele, S., Sagar, M., Bridwell, D., Jacobs, T., Wallace, A., Saron, C. (October, 2015). Longitudinal modulations of cortical responses during a visual continuous performance task: Effects of practice or intensive meditation training? Society for Neuroscience. Chicago, IL.

- Schmalzl, L., **Powers, C.**, Henje Blom, E., (November, 2014). Neurophysiological and neurocognitive mechanisms underlying yoga-based practices: Towards an integrative framework. International Composium for Contemplative Studies. Boston, MA.
- Powers C.** Grabowecky, M., Beeman, M. (June, 2013). Changes in Attention after Open-Monitoring and Focused-Attention Meditation. Mind and Life Summer Research Institute. Garrison, NY.
- Powers C.** Grabowecky, M., Beeman, M. (April, 2013). Differences in Attentional Blink after Open-Monitoring and Focused-Attention Meditation. Cognitive Neuroscience Society. San Francisco, CA.
- Powers C.** Beeman, M. (October, 2012). Inferences in Natural Conversation: An ERP study of Explicit versus Implied Language Comprehension. Society for Neuroscience. New Orleans, LA.
- Powers C.** Beeman, M. (May, 2012). Changes in Problem Solving Rates and Strategies after a Single Attempt at OM or FA Meditation by Non-meditators. *Association for Psychological Science*. Chicago, IL.
- Powers C.** Beeman, M. (November, 2011). Inferences in Natural Conversation: An ERP study of Explicit versus Implied Language Comprehension. Society for Neuroscience. Washington, DC.
- Powers C.** Beeman, M. (April, 2011). Hemispheric Inference Priming during Comprehension of Conversation. Cognitive Neuroscience Society. San Francisco, CA.
- Powers C.** Beeman, M. (November, 2010). Hemispheric Inference Priming during Conversation Comprehension. Neurobiology of Language. San Diego, CA.
- Powers C.** Beeman, M. (November, 2010). Hemispheric Inference Priming during Conversation Comprehension. Society for Neuroscience. San Diego, CA.
- Powers C.** Beeman, M. (October, 2009). Comprehending Conversation Language: Inference Priming in the Two Hemispheres. Society for Neuroscience. Chicago, IL.
- Anderson C.** Avants B. Grossman M. (April, 2008). Patterns of Cortical Atrophy in Autopsy-defined FTLD and fv-AD. American Academy of Neurology. Chicago, IL.
- Massimo L. **Anderson C.** (April, 2008). Neuroanatomic Correlates of Apathy and Disinhibition in Frontotemporal Dementia. American Academy of Neurology. Chicago, IL.
- Anderson C.** Moore P. Grossman M. (November, 2007). Category naming fluency in FTD syndromes. Society for Neuroscience. San Diego, CA.
- Vesely L., Price C., **Anderson C.**, Moore P., Grossman M. (November, 2007). Compromised Verb Associative Knowledge in Frontotemporal Dementia: A VBM analysis. Society for Neuroscience. San Diego, CA.
- Anderson C.** Grossman M. (October, 2007). Patterns of Brain Volume Loss Associated with Letter-guided and Semantically-guided Category Naming. Academy of Aphasia. Washington, DC.
- Goldmann Gross R, Ash S, **Anderson C.** Grossman N. (October, 2007) Discourse Impairment in Corticobasal Degeneration. American Neurological Association. Washington, DC.
- Avants B, **Anderson C.** Grossman M, Gee, J. (June, 2007). Tauopathic Longitudinal Gray Matter Atrophy Predicts Declining Verbal Fluency: A Symmetric Normalization Study. Human Brain Mapping. Chicago, IL.
- Trioani V, **Anderson C.** Grossman M. (May, 2007). Social Feature Knowledge: A two-component model. Cognitive Neuroscience Society. New York, NY.