Robert S. Chavez, Ph.D.

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Academic Positions

THE OHIO STATE UNIVERSITY – Columbus, OH, USA
Postdoctoral Fellow *2015 – present*
Principal Investigator: Dylan D. Wagner, Ph.D.

Education & Training

DARTMOUTH COLLEGE – Hanover, NH, USA
Ph.D. – Cognitive Neuroscience *2015*
Advisor: Todd F. Heatherton, Ph.D.
Dissertation: *The Structure and Function of Brain Networks Underlying Self-evaluation*

UNIVERSITY OF NEW MEXICO – Albuquerque, NM, USA
Bachelor of Science *2008*
Major: *Psychology*; Minor: *Statistics*

THE MIND RESEARCH NETWORK – Albuquerque, NM, USA
Research Associate – Principal Investigator: Rex E. Jung, Ph.D. *2007–2010*
Research Associate – Principal Investigator: Francesca M. Filbey, Ph.D. *2008–2009*

Honors & Awards

Dartmouth College – Hannah Croasdale Award for Academic Excellence* *2015*
**College-wide award to the single graduating Ph.D. student who best exemplifies the qualities of a scholar*

Psychological & Brain Sciences, Dartmouth College – William Smith Promise Award in Brain Science 2015

Social & Affective Neuroscience Society – Trainee Award *2015*

Society for Personality & Social Psychology – Travel Award *2015*

Society for Personality & Social Psychology – Diversity Fund Award (honorable mention) *2015*

National Science Foundation – Graduate Research Fellowship *2011–2014*

Publications

17. **Chavez, R.S**. & Wagner, D.D. (*in preparation)*. A caution on testing for interaction effects in whole-brain analysis of variance,

16. **Chavez, R.S.**, Heatherton, T.H., & Wagner, D.D. (*under review*). Neural population decoding reveals the intrinsic positivity of the self,

15. Grazioplene, R., **Chavez, R.S.**, Rustichini, A., & DeYoung, C.G. (*under review*). Personality, psychosis, and connectivity: White matter correlates of positive schizotypy and openness to experience in healthy adults,

14. Chen, P.H.A., **Chavez, R.S.**, & Heatherton, T.H., (*under review*). Structural integrity between executive control and reward regions of the brain predicts body fat percentage in chronic dieters,

13. **Chavez, R.S.** & Heatherton, T.H. (*in press*). Frontostriatal structural integrity predicts longitudinal changes in self-esteem, *Social Neuroscience,*

12. Powers, K.E., **Chavez, R.S**., & Heatherton, T.F. (2016). Individual differences in response of dorsomedial prefrontal cortex predict daily social behavior. *Social Cognitive and Affective Neuroscience*, 11(1), 121-126.

11. **Chavez, R.S.** & Heatherton, T.H. (2015). Multimodal frontostriatal connectivity underlies individual differences in self-esteem. *Social Cognitive and Affective Neuroscience*, 10(3), 364-370.

10. **Chavez, R.S.** & Heatherton, T.H. (2015). Representational similarity of social and valence information in the medial prefrontal cortex. *Journal of Cognitive Neuroscience,* 27(1), 73-82.

9. Jung, R.E., **Chavez, R.S.**, Flores, R.A., Qualls, C.R., Sibbitt, W., & Roldan, C.A. (2012). White matter correlates of neuropsychological dysfunction in systemic lupus erythematosus. *PLoS ONE*, 7(1).

8. Arden, R., **Chavez, R.S.**, Grazioplene, R., & Jung, R.E. (2010) Neuroimaging creativity: A psychometric view. *Behavioural Brain Research*, 214(2), 143-156.

7. Jung, R.E., Caprihan, A., **Chavez, R.S.**, Flores, R.A., Sharrar, J., Qualls, C.R., Sibbitt, W., & Roldan, C.A. (2010). Diffusion tensor imaging in neuropsychiatric systemic lupus erythematosus, *BMC Neurology*, 10(65), 1-9.

6. Jung, R.E., Segall, J.M., Bockholt, H.J., Flores, R.A., Smith, S.M., **Chavez, R.S.**, & Haier, R.J. (2010). Neuroanatomy of creativity. *Human Brain Mapping*, 31(3), 398-409.

5. Jung, R.E., Grazioplene, R.G., Caprihan, A., **Chavez, R.S.**, & Haier, R.J. (2010). White matter integrity, creativity, and psychopathology: Disentangling constructs with diffusion tensor imaging. *PLoS ONE*, 5(3).

4. Filbey, F.M., Schacht, J.P., Myers, U.S., **Chavez, R.S.**, & Hutchison, K.E. (2009). Individual and additive effects of the CNR1 and FAAH genes on brain response to marijuana cues. *Neuropsychopharmacology*, 35, 967-975.

3. Filbey, F.M., Schacht, J.P., Myers, U.S., **Chavez, R.S.**, & Hutchison, K.E. (2009). Marijuana craving in the brain. *Proceedings of the National Academy of Sciences*, 106 (41), 13016-13021.

2. Jung, R.E., Gasparovic, C., **Chavez, R.S.**, Barrow, R.A., Smith, S.M., Caprihan, A., & Yeo, R.A. (2009). Biochemical support for the "threshold" theory of creativity: A magnetic resonance spectroscopy study. *Journal of Neuroscience*, 29(16), 5319-5325.

1. Jung, R.E., Gasparovic, C., **Chavez, R.S.**, Caprihan, A., Barrow, R., & Yeo, R.A. (2009). Imaging intelligence with proton magnetic resonance spectroscopy, *Intelligence*, 37(2), 192-198.

Invited Talks

Chavez, R.S. "Diffusion (tensor) imaging: Overview and practical considerations". *MRI Seminar, Ohio State University, Columbus, OH, USA, October 2015.*

Chavez, R.S. "Self-esteem is supported by the structure and function of the brain's reward system". *Social Cognitive Research Group, Ohio State University, Columbus, OH, USA, September 2015.*

Chavez, R.S. & Heatherton, T.F. "Self-esteem modulates frontostriatal network interactions supporting self-evaluation and social cognition: Structural, functional, and longitudinal evidence". *Social & Affective Neuroscience Society Meeting, Boston, MA, USA, April 2015.*

Chavez, R.S. "Frontostriatal connectivity underlies individual differences in self-esteem". *27th Annual Dartmouth Neuroscience Day, Hanover, NH, USA, April 2013.*

Chavez, R.S. "The missing links: How brain wiring contributes to complex cognition and personality." *1st Annual Dartmouth Grad Talks, Hanover, NH, USA, May 2012.*

Selected Abstracts

Chavez, R.S. & Heatherton, T.F. Structural connectivity of frontostriatal circuits predicts change in self-esteem. *Presented at the 16th Annual Meeting of the Society for Personality & Social Psychology, Long Beach, CA, USA, February 2015*.

Chavez, R.S. & Heatherton, T.F. Representational similarity of social and valence information in the medial prefrontal cortex. *Presented at the 20th Annual Meeting of the Cognitive Neuroscience Society, Boston, MA, USA, April 2014.*

Chavez, R.S. & Heatherton, T.F. Frontostriatal connectivity underlies individual differences in self-esteem. *Presented at the 20th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, USA, April 2013.*

Chavez, R.S. & Heatherton, T.F. Ventral striatum responds more to attractive in-group members than attractive out-group members. *Presented at the Social & Affective Neuroscience Society Meeting, San Francisco, CA, USA, April 2013.*

Chavez, R.S., Powers, K.E., & Heatherton, T.F. Structural connectivity of prefrontal cortex and nucleus accumbens predicts trait self-esteem. *Presented at the 19th Annual Meeting of the Cognitive Neuroscience Cognitive Neuroscience Society, Chicago, IL, USA, March 2012*.

Chavez, R.S. & Norris, C.J. Brain structure contributions to gender differences in behavioral inhibition. *Presented at the 13th Annual Meeting of the Society for Personality & Social Psychology, San Diego, CA, USA, January, 2012*.

Chavez, R.S., Grazioplene, R., Marshall, A. Flores, R., & Jung, R.E. Openness to isotropy: A diffusion tensor imaging study of personality. *Presented at the 17th Annual Meeting of the Cognitive Neuroscience Society, Montréal, QC, Canada, April, 2010*.

Chavez, R.S., Caprihan, A., Smith, S.M., Marshall, A., Barrow, R., Grazioplene, R., & Jung, R. Creativity: The other white matter. *Presented at the 16th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, USA, March, 2009*.

Chavez, R., Caprihan, A., England, R., Smith, S., Segall, S., Barrow, R., & Jung, R.E. Corpus callosum contributions to creativity: A diffusion tensor imaging study. *Presented at the 15th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, USA, April 2008.*

Teaching & Mentoring

DARTMOUTH COLLEGE

Teaching Assistant

Experimental Design, Methodology, & Data Analysis	*Summer 2011*
Laboratory in Psychological Science	*Fall 2011 & Spring 2013*
Principles of Human Brain Mapping with fMRI	*Winter 2013*

Graduate Statistics *Fall 2012 & Winter 2013*

Undergraduate Honors Thesis Supervisor
Zach Ingbretsen *2010–2011*
Title: "*Structure and function of the hippocampus and amygdala vary as a function of age and individual differences in negativity*"

Dartmouth Graduate-Undergraduate Mentoring Program
Mentor Volunteer *2012–2015*

Departmental Service

DARTMOUTH COLLEGE

Graduate Committee Student Representative *2011–2013*
– Served as student liaison to faculty
– Planned and organized graduate student recruitment events

fMRI Methods Brown Bag Co-Organizer *2012–2014*
– Organized monthly meetings
– Presenter

Ad Hoc Reviewer

Social Cognitive and Affective Neuroscience
Journal of Cognitive Neuroscience
Frontiers in Psychology
Journal of Experimental Psychology: General
Neuropsychologia
PLoS ONE
NeuroImage

Memberships

Cognitive Neuroscience Society
Social and Affective Neuroscience Society
Society of Personality and Social Psychology