

# Dylan D. Wagner, Ph.D.

*Assistant Professor of Psychology*

Department of Psychology  
The Ohio State University

☎ (614) 688-1738

☎ (614) 292-5601

✉ wagner.1174@osu.edu

📧 wagnerlab.science

🐙 github.com/ddwagner

## Academic Appointments

2014– **Assistant Professor**, Department of Psychology, The Ohio State University.

## Education and Training

2011–2014 **Postdoctoral Fellow**, Dartmouth College.

2011 **Ph.D. in Psychology**, Dartmouth College.

2002–2005 **Research Assistant in Neuropsychology**, Montreal Neurological Institute.

2003 **B.A. in Psychology and Music Technology**, McGill University.

## Awards, Honors & Fellowships

2015 Rising Star Award, Association for Psychological Science.

2013 Fellow, Summer Institute in Cognitive Neuroscience, UC Davis & UCSB.

2012 Runner Up, Society of Experimental Social Psychology (SESP) Dissertation Award.

2011 Hannah Croasdale Award for Academic Excellence, Dartmouth College.

*Awarded to the single graduating student across all departments who most exemplifies the qualities of a scholar*

2009 William M. Smith Promise Award in the Brain Sciences, Dartmouth College.

2009 Fellow, Summer Institute in Cognitive Neuroscience, UC Santa Barbara.

2007 Marie A. Center 1982 Graduate Award for Excellence in Teaching, Dartmouth College.

2001 Fellow, Summer Research Fellowship in Vision Science, Center for Vision Science, University of Rochester.

## Research Grants

2016-2018 Co-Principal Investigator (with Aleix Martinez), CCBS Seed Grant Award for the development of tangible resources for the research community, *Neuroimaging and video databases for the study of naturalistic vision, language processing and social cognition*.

2015-2016 Principal Investigator, OSU-CERTS Pilot Project Award, *Using functional neuroimaging to assess the reward-value of flavored tobacco product advertisements in adolescents*.

## Publications

UNDER  
REVIEW &  
IN PREP

[1] Chavez, R.S.\*, Heatherton, T.F., **Wagner, D.D.** (invited revision). Neural

population decoding reveals the fundamental positivity of the self. *Cerebral Cortex*. \*post-doctoral fellow

- [2] Chavez, R.S.\*, **Wagner, D.D.** (in preparation). A cautionary note on testing for interactions in whole-brain analyses of variance. \*post-doctoral fellow

PEER-  
REVIEWED

- [1] **Wagner, D.D.**, Kelley, W.M., Haxby, J.V., Heatherton, T.F. (in press). The dorsal medial prefrontal cortex responds preferentially to social interactions during natural viewing. *Journal of Neuroscience*.
- [2] Kelley, W.M., **Wagner, D.D.**, Heatherton, T.F. (2015). In search of a human self-regulation system. *Annual Review of Neuroscience*. 38: 389-411. doi:10.1146/annurev-neuro-071013-014243
- [3] Chen, P. A., **Wagner, D.D.**, Kelley, W.M., Heatherton, T.F. (2015). Activity in cortical midline structures is modulated by self-construal changes during acculturation. *Culture and Brain*. 3(1): 39-52. doi:10.1007/s40167-015-0026-z
- [4] Lopez, R.B., Hofmann, W., **Wagner, D.D.**, Kelley, W.M., Heatherton, T.F. (2014). Neural predictors of giving in to temptation in daily life. *Psychological Science*. 25(7): 1337–1344. doi:10.1177/0956797614531492
- [5] **Wagner, D.D.**, Altman, M., Boswell, R.G., Kelley, W.M., Heatherton, T.F. (2013). Self-Regulatory Depletion Enhances Neural Responses to Rewards and Impairs Top-Down Control. *Psychological Science*. 24(11): 2262–71. doi:10.1177/0956797613492985
- [6] Chen, P. A., **Wagner, D.D.**, Kelley, W.M., Powers, K.E., Heatherton, T.F. (2013). Medial Prefrontal Cortex Differentiates Self from Mother in Chinese. *Culture and Brain*. 1(1): 3–15. doi:10.1007/s40167-013-0001-5
- [7] **Wagner, D.D.**, Heatherton, T.F. (2013). Self-Regulatory Depletion Increases Emotional Reactivity in the Amygdala. *Social Cognitive and Affective Neuroscience*. 8(4): 410–417. doi:10.1093/scan/nss082  
**Reprinted in:** Reis H.T. (2014) *Methodological Innovations in Social Psychology* (pp. 410-417). London, UK: Sage Publications.
- [8] Somerville, L.H., **Wagner, D.D.**, Wig, G.S., Moran, J.M., Whalen, P.J., Kelley, W.M. (2013). Interactions Between Transient and Sustained Neural Signals Support the Generation and Regulation of Anxious Emotion. *Cerebral Cortex*. 23(1): 49–60. doi:10.1093/cercor/bhr373
- [9] Powers, K.E., **Wagner, D.D.**, Norris, C.J., Heatherton, T.F. (2013). Socially excluded individuals fail to recruit medial prefrontal cortex for negative social scenes. *Social Cognitive and Affective Neuroscience*. 8(2): 151–7. doi:10.1093/scan/nsr079
- [10] **Wagner, D.D.**, Haxby, J.V., Heatherton, T.F. (2012). The Representation of Self and Person Knowledge in the Medial Prefrontal Cortex. *Wiley Interdisciplinary Reviews: Cognitive Science*. 3(4): 451–470. doi:10.1002/wcs.1183

- [11] **Wagner, D.D.**, Boswell, R.G., Kelley, W.M., Heatherton, T.F. (2012). Inducing negative affect increases the reward value of appetizing foods in dieters. *Journal of Cognitive Neuroscience*. 24(7): 1625–1633. doi:10.1162/jocn\_a\_00238
- [12] Heatherton, T.F., **Wagner, D.D.** (2011). Cognitive Neuroscience of Self-Regulatory Failure. *Trends in Cognitive Science*. 15(3): 132–139. doi:10.1016/j.tics.2010.12.005
- [13] **Wagner, D.D.**, Kelley, W.M., Heatherton, T.F. (2011). Individual differences in the spontaneous recruitment of brain regions supporting mental state understanding when viewing natural social scenes. *Cerebral Cortex*. 21(12): 2788–2796. doi:10.1093/cercor/bhr074
- [14] **Wagner, D.D.**, Dal Cin, S., Sargent, J.D., Kelley, W.M., Heatherton, T.F. (2011). Spontaneous Action Representation in Smokers when Watching Movie Characters Smoke. *Journal of Neuroscience*. 31(3): 894–898. doi:10.1523/JNEUROSCI.5174-10.2011
- [15] **Wagner, D.D.**, Sziklas, V., Garver, K.E., Jones-Gotman, M. (2009) Material specific lateralization of working memory in the medial temporal lobe. *Neuropsychologia*. 47(1), pp. 112–122. doi:10.1016/j.neuropsychologia.2008.08.010
- [16] Kennepohl, S., Sziklas, V., Garver, K.E., **Wagner, D.D.**, Jones-Gotman, M. (2007) Memory and the medial temporal lobe: Hemispheric specialization reconsidered. *Neuroimage*. 36 (3), pp. 969–978. doi:10.1016/j.neuroimage.2007.03.049

## CHAPTERS

- [1] **Wagner, D.D.** (Forthcoming) The relationship between neural measures of reward sensitivity and self-regulation successes and failures. In de Ridder, Adriaanse & Fujita (Eds.), *Handbook of Self-Control in Health and Wellbeing*. Routledge.
- [2] **Wagner, D.D.**, Heatherton, T.F. (2016) What can neuroimaging tell us about ego depletion? In E.R. Hirt, J.J. Clarkson & L. Jia (Eds.), *Self-Regulation and Ego Control*. Academic Press: Elsevier.
- [3] **Wagner, D.D.**, Heatherton, T.F. (2016) The neural bases of self-regulation and its failures. In K.D. Vohs & R.F. Baumeister (Eds.), *Handbook of Self Regulation: Research, theory and applications (3rd edition)*. New York, N.Y.: Guilford Press.
- [4] **Wagner, D.D.** (2015) Mentalizing. In Toga, A. (Ed) *Brain Mapping: An Encyclopedic Reference*. Academic Press: Elsevier, pp. 143-146.
- [5] Heatherton, T.F., Lopez, R.B., **Wagner, D.D.** (2015) Self-regulation and self-regulation failure. In Toga, A. (Ed) *Brain Mapping: An Encyclopedic Reference*. Academic Press: Elsevier.
- [6] Lopez, R.B. , **Wagner, D.D.**, Heatherton, T.F. (2015). The neuroscience of desire regulation. In W. Hofmann & L.F. Nordgren (Eds.), *The Psychology of Desire*. New York, N.Y.: Guilford Press.

- [7] Lopez, R.B. , **Wagner, D.D.**, Vohs, K.D., Heatherton, T.F. (2015). Self-regulatory strength: neural mechanisms and implications for training. In Gendolla, Tops & Koole (Eds.), *Handbook of Biobehavioral Approaches to Self-Regulation*. New York, N.Y.: Springer. doi:10.1007/978-1-4939-1236-0\_4
- [8] **Wagner, D.D.**, Heatherton, T.F. (2014) Self-Regulation and its Failure: Seven Deadly Threats to Self-Regulation. In M. Mikulincer, P.R. Shaver, E. Borgida, & J. A. Bargh (Eds.), *APA Handbook of Personality and Social Psychology: Volume 1. Attitudes and Social Cognition*. Washington, D.C.: American Psychological Association. doi:10.1037/14341-026
- [9] **Wagner, D.D.**, Heatherton, T.F. (2014). Self-Regulation and its Failures. In Gazzaniga & Mangun (Eds.), *The Cognitive Neurosciences (5th edition)*. Cambridge, MA: MIT Press.
- [10] Arzi, A., Banerjee, S., Cox, J.C., D'Souza, D., De Brigard, F., Doll, B.B., Fairley, J., Fleming, S.M., Herholz, S.C., King , D.R., Libby, L.A., Myers, J.C., Neta, M., Pitcher, D., Power, J.D., Rass, O., Ritchey, M., Jubal, E.R., Royston, A., **Wagner, D.D.**, Wang, W., Waring, J.D., Williams, J., Wood, S. (2014). The significance of cognitive neuroscience: Findings, applications, and challenges. In Gazzaniga & Mangun (Eds.), *The Cognitive Neurosciences (5th edition)*. Cambridge, MA: MIT Press.
- [11] **Wagner, D.D.**, Heatherton, T.F. (2013) Emotion and Self-Regulation Failure. In Gross (Ed), *Handbook of Emotion Regulation (2nd edition)*. New York, N.Y.: Guilford Press.
- [12] **Wagner, D.D.**, Demos, K.E., Heatherton, T.F. (2011) Staying in control: The cognitive neuroscience of self-regulation and its failure. In Cacioppo & Decety (Eds.), *Handbook of Social Neuroscience*. Oxford University Press.
- [13] **Wagner, D.D.**, Heatherton, T.F. (2010) Giving in to temptation: The emerging cognitive neuroscience of self regulatory failure. In Baumeister & Vohs (Eds.), *Handbook of Self Regulation: Research, theory and applications (2nd edition)*. New York, N.Y.: Guilford Press.
- [14] Heatherton, T.F., Krendl, A.C., **Wagner, D.D.** (2008) Neurophysiological Approaches to Understanding Behavior. *Human Behavior in a Military Context*. Washington, DC: The National Academies Press, pp. 217–238.

## COMMENTARIES

- [1] (Commentary on **Wagner & Heatherton, 2013**)  
Berkman, E.T., Miller-Ziegler, J. (2013). Imaging depletion: fMRI provides new insights into the processes underlying ego depletion. *Social Cognitive and Affective Neuroscience*. 8(4): 359–361. doi:10.1093/scan/nss111
- [2] (Commentary on **Wagner et al. 2011**)  
Yalachkov, Y., Naumer, M. J. (2011). Involvement of action-related brain regions in nicotine addiction. *Journal of Neurophysiology*, 106(1): 1–3. doi:10.1152/jn.00195.2011

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## Invited Talks & Symposia

### TALKS

- 2016 Neuroscience of Diversity and Inclusion, The Ohio State University Wexner Medical Center Neurological Institute.
- 2016 CCBBI Users Meeting, The Ohio State University.
- 2015 Tobacco Control Research Seminar, The Ohio State University.
- 2015 CCBBI Users Meeting, The Ohio State University.
- 2015 Social Seminar, Indiana University Bloomington.
- 2014 Group for Attitudes and Persuasion, The Ohio State University.
- 2014 Social Cognition Research Group, The Ohio State University.
- 2014 Department of Psychology, University of California Los Angeles.
- 2014 The Social Behavior Interest Group, The Ohio State University.
- 2013 Department of Psychology, University of Pittsburgh.
- 2013 Department of Psychology, Princeton University.
- 2012 Social Psychology Research Workshop, Harvard University.
- 2011 Sackler Institute for Developmental Psychobiology, Weill Cornell Medical College.
- 2011 Current work in Social Psychology, Yale University.
- 2010 Media Conference, Dartmouth Hitchcock Medical Center.
- 2009 Minary Social Brain Sciences Retreat, Dartmouth College.
- 2009 Social Brain Sciences Winter Summit.
- 2008 Social Psychology Research Interest Group, Dartmouth College.
- 2007 Social Brain Sciences Winter Summit.

### SYMPOSIA

- 2016 **Wagner, D.D.**, *Decoding the brain's representation of person knowledge* Preconference: Social Cognition, 17<sup>th</sup> Annual Meeting of the Society for Personality and Social Psychology, San Diego, California.
- 2015 **Wagner, D.D.**, Heatherton, T.F., *What can neuroimaging tell us about the mechanisms of self-regulatory depletion?*, Self-Regulation and Ego Control Conference, Bloomington, Indiana.
- 2015 **Wagner, D.D.**, Heatherton, T.F., *Getting lost in a story and its consequences for social cognition and shared experience*, 8<sup>th</sup> Annual Meeting of the Social and Affective Neuroscience Society, Boston, Massachusetts.
- 2015 **Wagner, D.D.**, Heatherton, T.F., *Narrative transportation is associated with increased neural similarity among audience members*. Preconference: Mental Simulation, 16<sup>th</sup> Annual Meeting of the Society for Personality and Social Psychology, Long Beach, California.
- 2014 Lopez, R.B., Hofmann, W., **Wagner, D.D.**, Kelley, W.M., Heatherton, T.F., *Neural markers of daily self control failure*. Symposia: Desires, Behaviours and Goal Pursuit: Insights into Self-Regulation from Experience Sampling Research,, 15<sup>th</sup> Annual Meeting of the Society for Personality and Social Psychology, Austin, Texas.

- 2013 **Wagner D.D.**, Heatherton, T.F., *I'm tired and you look delicious: self-regulatory depletion leads to increased reward related neural responses to appetitive stimuli*. Symposia: Self-control does a body good? Evidence from the brain, heart, liver and behavior, 14<sup>th</sup> Annual Meeting of the Society for Personality and Social Psychology, New Orleans, Louisiana.
- 2011 **Wagner, D.D.**, Heatherton, T.F., *Neural bases of self-regulatory failure*. Symposia: Mechanisms of ego depletion, 12<sup>th</sup> Annual Meeting of the Society for Personality and Social Psychology, San Antonio, Texas.

## Laboratory Conference Posters

2016

- [1] Chavez, R.S., **Wagner, D.D.** (2015). *A Cautionary note on testing for interaction effects in whole-brain ANOVA*. Poster presented at the 9<sup>th</sup> Annual Meeting of the Social and Affective Neuroscience Society, New York, New York.  
\*SANS Poster Award Winner

## Affiliations

- 2016– Faculty member, Decision Sciences Collaborative, The Ohio State University.
- 2014– Faculty member, Center for Cognitive and Brain Sciences, The Ohio State University.

## Professional Activities, Memberships, Service & Outreach

Editorial Board  
Imagination, Cognition and Personality

AD HOC  
REVIEWER

Journals Addiction Biology, Biological Psychiatry, Biological Psychology, Brain, Brain & Cognition, Cerebral Cortex, Cognitive, Affective, and Behavioral Neuroscience, Epilepsia, Frontiers in Brain Imaging Methods, F1000Research, Frontiers in Neuroinformatics, Frontiers in Psychology, Human Brain Mapping, Journal of Clinical and Experimental Neuropsychology, Journal of Cognitive Neuroscience, Journal of Neuroscience, Memory & Cognition, NeuroImage, NeuroImage: Clinical, Neuroscience and Biobehavioral Reviews, PeerJ, Perspectives on Psychological Science, Personality and Social Psychology Review, PLoS One, PLoS One Computational Biology, Proceedings of the National Academy of Sciences, Social Cognitive and Affective Neuroscience, Social and Personality Psychology Compass

Grants National Science Foundation, Swiss National Science Foundation

Conference Abstracts Society for Personality and Social Psychology Annual Meeting

SOCIETY MEMBER-SHIPS Society for Personality and Social Psychology, Cognitive Neuroscience Society, Social and Affective Neuroscience Society, Association for Psychological Science

DEPT.  
SERVICE

- 2015-2016 Member, Graduate Admissions Committee, Department of Psychology.  
The Ohio State University
- 2014-2016 Member, Chronic Brain Injury Search Committee, Department of Psychology.  
The Ohio State University

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Teaching & Mentoring

TEACHING

- Lecturer *The Self*, Undergraduate Level Course (4475), The Ohio State University.
- Lecturer *Basic Principles of Social Psychology*, Graduate Level Course (7871), The Ohio State University.
- Lecturer *Topics in Social Psychology: Social Cognitive Neuroscience*, Graduate Level Seminar (7987), The Ohio State University.

MENTORING

- 2013 Honors thesis research supervisor (Sophie Palitz), Dartmouth College.  
Project title: Neural mechanisms of self-regulatory depletion
- 2012 Honors thesis research supervisor (Carolyn Meehan), Dartmouth College.  
Project title: Does glucose restore self-control?
- 2011 Honors thesis research supervisor (Myra Altman), Dartmouth College.  
Project title: Cognitive depletion and food-cue reactivity
- 2010 Honors thesis research supervisor (Rebecca Boswell), Dartmouth College.  
Project title: Mood induction increases cue-reactivity in restrained eaters
- 2009 Honors thesis research supervisor (Stacie M. Payne), Dartmouth College.  
Project title: The neural correlates of subliminal affective priming in biasing judicial decision making
- 2009 Honors thesis research supervisor (Catherine Amble), Dartmouth College.  
Project title: Brain basis of self-regulatory failure in chronic dieters