

# Regina C. Lapate

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## EDUCATION

### University of California-Berkeley

Postdoctoral Fellow, Helen Wills Neuroscience Institute 2016-present  
Advisor: Mark D'Esposito

### University of Wisconsin-Madison

Ph.D., Department of Psychology 2015  
Distributed Minor in Neuroscience and Quantitative Methods  
Advisor: Richard J. Davidson

### University of Wisconsin-Madison

Master of Science, Psychology 2009

### Universidade Federal de Minas Gerais, Brazil

Bachelor of Science, Psychology 2004

## HONORS

**F32 Ruth L. Kirschstein National Research Service Award (NRSA)** 2017-2020  
NIMH, NIH

**ERP Bootcamp Scholarship** 2015  
NIH, University of California Davis

**NITP Advanced Neuroimaging Summer Program Fellow** 2014  
NIH, University of California Los Angeles

**Summer Institute in Cognitive Neuroscience Fellow** 2014  
NIMH, University of California Santa Barbara

**Student Poster Award** 2009, 2013  
Society for Psychophysiological Research

**Vilas Dissertation Travel Award** 2012, 2013, 2015  
University of Wisconsin-Madison

**Hertz Foundation Travel Award** 2009-2015  
Department of Psychology, University of Wisconsin-Madison

<b>Menzies and Royalty Award for Independent Graduate Student Research</b>	2011, 2013, 2015
Department of Psychology, University of Wisconsin-Madison	
<b>Biology of Social Cognition Workshop Fellow</b>	2012
Cold Spring Harbor Laboratory, NY	
<b>Marian S. Schwartz Award in Experimental Psychology</b>	2012
Department of Psychology, University of Wisconsin-Madison	
<b>James Davis Award for Research in Affective Neuroscience</b>	2010
Department of Psychology, University of Wisconsin-Madison	
<b>Study Abroad Full Scholarship</b>	2003–2004
Universidade Federal de Minas Gerais	
<b>Research Trainee Fellowship</b>	2002–2003
Brazilian Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq) <National Counsel for Scientific and Technological Development>	

## PUBLICATIONS

### Manuscripts

- Lapate, R. C.**, Samaha, J., Rokers, B., Hamzah, H., Postle, B. R., Davidson, R. J. (in press). Inhibition of lateral prefrontal cortex produces emotionally biased first impressions: A TMS/EEG study. *Psychological Science*.
- Lapate, R.C.**, Rokers, B., Tromp, D., Orfali, N., Doran, S., Adluru, N., Alexander, A.L., Davidson, R.J. (2016). Awareness of emotional stimuli determines the behavioral consequences of amygdala activation and amygdala-prefrontal connectivity. *Scientific Reports*, 6, 25826.
- Lapate, R.C.**, Rokers, B., Li, T., Davidson, R.J. (2014). Nonconscious emotional activation colors first impressions: A regulatory role for conscious awareness. *Psychological Science*, 25, 349-357.
- Heller, A.S., **Lapate, R.C.**, Mayer, K., Davidson, R.J. (2014). The face of negative affect: Trial-by-trial corrugator responses to negative pictures are positively associated with amygdala and negatively associated with ventromedial prefrontal cortex activity. *Journal of Cognitive Neuroscience*, 26, 2102-2110.
- Lapate, R.C.**, van Reekum, C.M., Schaefer, S.M., Greischar, L.L., Norris, C.J., Bachhuber, D.R.W., Ryff, C.D., & Davidson, R.J. (2014). Prolonged marital stress is associated with short-lived responses to positive stimuli. *Psychophysiology*, 51, 499-509.

Heller, A.S., van Reekum, C.M., Schaefer, S.M., **Lapate, R.C.**, Radler, B.T., Ryff, C.D., & Davidson, R.J. (2013). Sustained nucleus accumbens activation predicts self-reported psychological well-being. *Psychological Science*, 24, 2191-2200.

Schaefer, S.M., Boylan, J.A.M., van Reekum, C.M., **Lapate, R.C.**, Norris, C.J., Ryff, C.D., & Davidson, R.J. (2013). High psychological well-being predicts better emotional recovery from negative stimuli. *PLoS ONE*, 8, e80329.

**Lapate, R.C.**, Lee, H., Salomons, T.V., van Reekum, C.M., Greischar, L.L., & Davidson, R.J. (2012). Amygdalar function reflects common individual differences in emotion and pain regulation success. *Journal of Cognitive Neuroscience*, 24, 148-158.

Javaras, K.N., Schaefer, S. M., van Reekum, C.M., **Lapate, R.C.**, Greischar, L.L., Bachhuber, D. R., Love, G., Ryff, C. D., & Davidson, R. J. (2012). Conscientiousness predicts greater recovery from negative emotion. *Emotion*, 12, 875-881.

van Reekum, C.M., Schaefer, S.M., **Lapate, R.C.**, Norris, C., Greischar, L.L., & Davidson, R. J. (2011). Aging is associated with positive responding to neutral information but reduced recovery from negative information. *Social Cognitive and Affective Neuroscience*, 6, 177-185.

### **Under Review**

van Reekum, C., Schaefer, S. M., **Lapate, R. C.**, Norris, C., Tun, P., Lachman, M., Ryff, C., Davidson, R. J. (*under review*). Lateral-medial shift in prefrontal cortex engagement underlies intact emotional functioning in aging.

Grupe, D. W., Schaefer, S. M., Schuyler, B. S., Schoen, A. J., Gresham, L. K., **Lapate, R. C.**, Davidson, R. J. (*under review*). Temporal dynamics of amygdala responses reveal differential contributions of emotional valence and arousal.

### **Book Chapter**

**Lapate, R.C.** (*in press*). Regulatory benefits of conscious awareness: insights from the emotion misattribution paradigm and a role for lateral prefrontal cortex. In: Fox, A.S., **Lapate, R.C.**, Shackman, A.J. & Davidson, R.J. (Eds.), *The Nature of Emotion: Fundamental Questions* (2nd edition). New York: Oxford University Press.

### Edited book in preparation

Fox, A. S., **Lapate, R. C.**, Shackman, A. J. & Davidson, R. J. (2016). *The nature of emotion: Fundamental questions* (2<sup>nd</sup> edition). New York: Oxford University Press.

### Contributed integrative chapters:

**Lapate, R. C.** & Shackman, A. J. (*in press*). Afterword: What is an emotion?

**Lapate, R. C.** & Fox, A. S. (*in press*). Afterword: What is the role of conscious awareness in emotion?

**Lapate, R. C.** & Shackman, A. J. (*in press*). Afterword: What develops in emotional development?

**Lapate, R. C.** & Fox, A. S. (*in press*). Afterword: How and why are emotions communicated?

Shackman, A. J. & **Lapate, R. C.** (*in press*). Afterword: What is the added value of studying the brain for understanding emotion?

Shackman, A. J. & **Lapate, R. C.** (*in press*). Afterword: How are emotions regulated by context and cognition?

Shackman, A. J. & **Lapate, R. C.** (*in press*). Afterword: How do emotion and cognition interact?

Shackman, A. J., **Lapate, R. C.** & Fox, A. S. (*in press*). Afterword: How are emotions, mood and temperament related?

Fox, A. S. & **Lapate, R.C.** (*in press*). Afterword: When and in what ways are emotions adaptive and maladaptive?

Fox, A. S. & **Lapate, R.C.** (*in press*). Afterword: How are emotions integrated into choice?

### Selected Conference Abstracts

Schaefer, S.M., Gresham, L.K., Schoen, A.J., **Lapate, R.C.**, & Davidson, R.J. (2017). Poor emotional recovery is associated with attentional and memory biases for negative stimuli. In: Annual meeting of the Society for Affective Science, Boston, MA.

**Lapate, R. C.**, Samaha, J., Rokers, B., Hamzah, H., Austermuehle, A., Postle, B. R., Davidson, R.J. (2016). Lateral prefrontal function prevents emotionally biased first impressions. In: Annual Meeting of the Society for Affective Sciences, Chicago, IL.

Grupe, D.W., Schaefer, S. M., Schuyler, B.S., Schoen, A.J., Gresham, L.K., **Lapate, R.C.**, Davidson, R.J. (2016). Amygdala chronometry is associated with behavioral and peripheral physiological measures of emotional recovery. In: Annual Meeting of the Society for Affective Sciences, Chicago, IL.

- Schaefer, S.M., Hinsenkamp, L.D., Gresham, L.K., **Lapate, R.C.**, Slagter, H.A., Davidson, R.J. (2016). Emotion regulatory skill is valence dependent reflecting an underlying affective style. In: Annual Meeting of the Society for Affective Sciences, Chicago, IL.
- Lapate, R.C.**, Samaha, J., Rokers, B., Hamzah, H., Austermuhele, A., Postle, B.R., Davidson, R.J. (2015) Dorsolateral prefrontal cortex, metacognitive awareness of emotional visual stimuli, and emotion regulation: A TMS/EEG study. In: 45<sup>th</sup> Annual Meeting of the Society for Neuroscience, Chicago, IL.
- Lapate, R.C.**, Austermuhele, A., Davidson, R.J. (2015). Emotional processing biases face identity perception. In: 22<sup>nd</sup> Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Lapate, R.C.**, Kral, T.A., Aroor, K., Schuyler, B.S, Davidson, R.J. (2014). Common amygdalar functional coupling mechanisms underlie emotional bias and explicit memory following negative emotional processing: An evaluative conditioning paradigm. In: 44<sup>th</sup> Annual Meeting of the Society for Neuroscience, Washington, D.C.
- Lapate, R.C.**, Rokers, B., Tromp, D., Orfali, N., Doran, S., Adluru, N., Alexander, A.L., Davidson, R.J. (2014). Visual awareness of emotional stimuli changes the behavioral fate of amygdala responses and amygdala-PFC coupling. In: 21<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, Boston, MA.
- Lapate, R.C.**, Rokers, B., Tromp, D., Orfali, N., Doran, S., Adluru, N., Alexander, A.L., Davidson, R.J. (2013). Amygdalar function and connectivity underlie affective misattribution after non-conscious emotional processing. In: 53<sup>rd</sup> Annual Meeting of the Society for Psychophysiological Research, Florence, Italy. \* *Student Poster Award Winner*.
- Lapate, R.C.**, Rokers, B., Davidson, R.J. (2013). Emotional activation colors first impressions: a regulatory role for conscious access. In: 20<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Lapate, R.C.**, Rokers, B., Li, T., Davidson, R.J. (2013). Affective priming occurs during continuous flash suppression. In: 6<sup>th</sup> Annual Meeting of the Society for Affective Neuroscience, San Francisco, CA.
- van Reekum, C. M., Schaefer, S. M., **Lapate, R. C.**, Johnstone, T., Heller, A., Norris, C. J., Tun, P. A., Lachman, M. E., Ryff, C. D., & Davidson, R. J. (2012). A lateral-medial shift in prefrontal cortical engagement underlies intact emotional processing in aging. In: 18<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping, Beijing, China.

**Lapate, R.C.**, van Reekum, C. M., Schaefer, S. M., Norris, C. J., Greischar, L. L., & Davidson, R. J. (2011). Decreased spousal stress is associated with persistent responding to positive stimuli. In: 51<sup>st</sup> Annual Meeting of the Society for Psychophysiological Research, Boston, MA.

van Reekum, C.M., Schaefer, S.M., **Lapate, R.C.**, Norris, C.J., & Davidson, R.J. (2009). Emotion reactivity and recovery across adulthood: Evidence from the Midlife in the US (MIDUS-II) study. Symposium presented at the 49<sup>th</sup> Annual Meeting of the Society for Psychophysiological Research, Berlin, Germany.

**Lapate, R.C.**, Lee, H., Salomons, T.V., Greischar, L.L., van Reekum, C.M., Davidson, R.J. (2009). The contribution of affective style to the successful regulation of pain: A psychophysiological and neuroimaging investigation. In: 49<sup>th</sup> Annual Meeting of the Society for Psychophysiological Research, Berlin, Germany. \* *Student Poster Award Winner*.

Schaefer, S.M., van Reekum, C.M., **Lapate, R.C.**, Norris, C.J., Bachhuber, D.R., Sutterer, M.J., Davidson, R.J. (2009). Impaired recovery from negative stimuli across paradigms and measures. In: 49<sup>th</sup> Annual Meeting of the Society for Psychophysiological Research, Berlin, Germany.

**Lapate, R.C.**, van Reekum, C.M., Norris, C.J., Greischar, L.L., Oh, J., Davidson, R.J. (2007). Coherence between physiological and experiential response systems is associated with emotional recovery from negative pictures. In: 47<sup>th</sup> Annual Meeting of the Society for Psychophysiological Research, Savannah, GA.

van Reekum, C.M., Norris, C.J., **Lapate, R.C.**, Beguhn, G.M., Greischar, L.L., Rawlings, N.B., Davidson, R.J. (2006). Individual differences in affective style predict startle eyeblink and post-auricular reactivity to valenced pictures. In: 46<sup>th</sup> Annual Meeting of the Society for Psychophysiological Research, Vancouver, BC.

## INVITED TALKS

Lateral prefrontal function limits the pervasiveness of affect (2017). In: 10<sup>th</sup> Annual Meeting of the Social & Affective Neuroscience Society, Los Angeles, CA.

Exploring the interplay between emotion and consciousness (2016). The World We Make: WellBeing in 2030- a meeting with His Holiness the 14th Dalai Lama. Overture Center, Madison, WI.

Conscious awareness, affective coloring, and the amygdala (2013). Invited Symposium: Order and disorder in

the emotional brain: Emotional regulation in health and disease. In: 20<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.

Conscious awareness, affective coloring, and the amygdala (2013). Guest lecture at the Undergraduate Neuroscience Society meeting, University of Wisconsin-Madison.

Modulation of affective processing by conscious awareness: Amygdala function, amygdala-prefrontal interactions and consequences for behavior (2013). Neurology & Imaging of Cognition Brownbag, Geneva, Switzerland.

Modulation of affective processing by conscious awareness: Amygdala function, amygdala-prefrontal interactions and consequences for behavior (2013). Brain and Cognition Brownbag, University of Amsterdam, NL.

Making the visible invisible (2013). Guest Lecture at Edgewood College, Madison, WI.

## TEACHING

<b>Edgewood College- Madison, WI</b>	2016
Instructor, Psychopathology (4-week module in 'Emotion & Motivation' honors course)	
<b>PEOPLE Program</b> (Pre-College Enrichment Opportunity Program for Learning Excellence)	2012, 2013
Instructor, Neuroscience	

## MENTORING AND ADVISING

<b>UW-Madison NSF Psychology Research Experience Program (PREP)</b>	2013
Morgan Shields (M.S. candidate in Public Health, Harvard)	
<i>"The effect of positive stimuli on affective coloring"</i>	

## Undergraduate Senior Thesis Supervision

Nadia Orfali (Post-baccalaureate Intramural Research Fellow, NIMH)	2013-2014
<i>"Neural correlates of emotion detection and contagion"</i>	

Jessica Sloan (Ph.D. student, Clinical Psychology, Yeshiva University)	2012-2013
<i>"Effect of stimulus type on affective coloring"</i>	

## Undergraduate Student Research Supervision

Joy Geng (B.S. candidate in Molecular & Cell Biology, UC-Berkeley)	2017-
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Jean Wu (B.S. candidate in Cognitive Science, UC-Berkeley)	2017-
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Jenna Rebecca Martin (B.S. candidate in Psychology, UC-Berkeley)	2017-
Hamdi Hamzah (Data Analyst at Sime Darby Group)	2015-2016
Elizabeth Zoller (B.S. candidate in Psychology, University of Wisconsin-Madison)	2014-2015
Alison Austermuehle (Post-baccalaureate Intramural Research Fellow, NIMH)	2013-2015
Victoria Clemens (School of Social Work Masters student, University of Wisconsin-Madison)	2012-2014
Nadia Orfali (Senior Research Assistant, Child Trends)	2012-2013
Kaitlyn Mayer (Medical student, UW-Madison School of Medicine and Public Health)	2012-2014
Tianyi Li (Psychology Ph.D. student, University of Chicago)	2010-2011
Ashley Jordan (Clinical Psychology Ph.D. student, Yale)	2009-2010

**TECHNICAL****SKILLS**

Python, Psychopy, Matlab, Java, E-prime, R, SPSS, AFNI, FSL, EEGLAB, TrackVis

**JOURNAL SERVICE: AD HOC REVIEWER**

*Journal of Experimental Psychology: Human Perception and Performance*

*Journal of Cognitive Neuroscience; Journal of Experimental and Social Psychology*

*Cognitive, Behavioral and Affective Neuroscience; Cognition & Emotion*

*Scientific Reports; Translational Psychiatry; Frontiers in Human Neuroscience*

**PROFESSIONAL AFFILIATIONS**

Association for Psychological Science (Student member: 2011- present)

Cognitive Neuroscience Society (Student member: 2012- present)

Social and Affective Neuroscience Society (Student member: 2013- present)

Society for Neuroscience (Student member: 2012- present)

Society for Psychophysiological Research (Student member: 2007- present)