

# Bruna Martins, Ph.D

## *Curriculum Vitae*

Department of Psychological and Brain Sciences  
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University of Massachusetts- Amherst  
Amherst, MA 01003

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### ACADEMIC POSITIONS

- 2011- 2016      **Assistant Professor, Clinical Psychology**  
University of Massachusetts, Amherst
- 2011- 2016      **Emotion & Cognition Laboratory**, Ph.D. Student  
University of Southern California  
*Supervisor: Mara Mather, Ph.D.*
- 2009- 2011      **Cognitive Control & Psychopathology Laboratory**, Research Assistant  
Washington University in St. Louis  
*Supervisors: Todd Braver, Ph.D. & Mark McDaniel, Ph.D.*
- 2007- 2009      **Learning Research & Development Center**, Research Assistant  
University of Pittsburgh  
*Supervisor: Walter Schneider, Ph.D.*

### EDUCATION

- 2017              **Ph.D., Clinical Psychology (Geropsychology Track)**  
University of Southern California  
*Advisor: Mara Mather, Ph.D.*
- 2013              **M.A., Clinical Psychology**  
University of Southern California  
*Advisor: Mara Mather, Ph.D.*
- 2009              **B.S., Neuroscience & Psychology, Summa Cum Laude**  
University of Pittsburgh  
*Advisor: Walter Schneider, Ph.D.*

### GRANTS, FELLOWSHIPS AND HONORS

- 2018-2019      **NIH/NIA R56 AG 058685 (Spencer)**  
\$100,000 pilot fMRI/EEG project on age-related changes in sleep, emotion regulation and memory.

*Project:* Sleep and Emotion Processing in Aging: Implications for Mood Disorders in Aging and Alzheimer's Disease

*Role:* Collaborator

- 2018 **Human Magnetic Resonance Center (hMRC) Pilot Grant**  
\$8,600 University of Massachusetts, UMass Amherst Intramural Grant  
*Project:* Emotion dysregulation in amnesic Mild Cognitive Impairment: Mapping neural networks onto behavioral reactivity  
*Role:* Co-PI (Dr. Rebecca Ready, Dr. Bruna Martins)
- 2016 **Gerald C. Davison Award for Scientific Writing in Clinical Psychology**
- 2012– 2015 **NSF Graduate Research Fellowship**  
\$30,000 stipend plus \$10,500 annual education allowance for 3 years  
*Project:* Neural mechanisms of emotion regulation and cognitive depletion in later life
- 2011- 2016 **USC Provost's Ph.D. Fellowship**  
Five-year full-tuition coverage, plus five-year annual stipend of \$30,000 and \$500 travel grant
- 2014 **USC 2020 Social Neuroscience Summer Fellowship**  
\$3,000 summer fellowship  
*Project:* Role of cognitive effort in age-related differences in emotion regulation decision-making.
- 2011 **APAGS Junior Scientist Fellowship, Honorable Mention**
- 2008- 2009 **NIMH Undergraduate Mental Health Research Fellowship**  
\$7,500 stipend plus \$2,000 education allowance, and rotation at Western Psychiatric Institute  
*Project:* Pre-surgical assessment of route-specific damage using fMRI and DWI.
- 2005–2009 **University Honors College Full-Tuition Scholarship, University of Pittsburgh**  
Four-year full-tuition coverage
- 2006 **Summer Undergraduate Research Fellowship, Children's Hospital of Pittsburgh**  
\$3000 stipend  
Harvested islet cells for xenotransplantation in primates with Type-I diabetes
- 2006 **Undergraduate Fellowship in Pathology, University of Pittsburgh Medical Center**  
\$3000 stipend  
8-week summer fellowship in autopsy medicine
- 2004 **National Hispanic Merit Scholar**

## PUBLICATIONS

### *Peer-Reviewed Journal Articles*

- Martins, B.**, Florjanczyk, J., Jackson, N. J., Gatz, M., & Mather, M. (2018). Age differences in emotion regulation effort: Pupil response distinguishes reappraisal and distraction for older but not younger adults. *Psychology and Aging*, 33(2), 338-349.
- Martins, B.**, Sheppes, G., Gross, J. J., & Mather, M. (2016). Age differences in emotion regulation choice: Older adults use distraction less than younger adults in high-intensity positive contexts. *The Journals of Gerontology Series B: Psychological Sciences and Social Sciences*, gbw028.

Barber, S. J., Opitz, P. C., **Martins, B.**, Sakaki, M., & Mather, M. (2016). Thinking about a limited future enhances the positivity of younger and older adults' recall: Support for Socioemotional Selectivity Theory. *Memory & Cognition*, 1-14.

**Martins, B.**, Ponzio, A., Velasco, R., Kaplan, J., & Mather, M. (2014). Dedifferentiation of emotion regulation strategies in the aging brain. *Social Cognitive and Affective Neuroscience*, nsu129.

Westbrook, A., **Martins, B. S.**, Yarkoni, T., & Braver, T. S. (2012). Strategic insight and age-related goal neglect influence risky decision-making. *Frontiers in Neuroscience*, 6(68), 1-13.

#### *Manuscripts in Preparation*

**Martins, B.**, Alves, L. A., Chiew, K. S (*in revision*). Proactive versus reactive emotion regulation: A dual-mechanisms perspective.

Mather, M., Orlovsky, I., Longwell, P., Broggi, M., Ready, R., & **Martins, B.** (*in prep*). Affective neuroscience and aMCI: Linking emotion dysregulation to diagnosis and intervention.

**Martins B.**, & Hayes, J.P. Decreased fMRI Regulatory Activity in PTSD versus Trauma-Exposed Controls during Emotion Regulation Strategy Use (*in prep*).

Montagrin, A., **Martins, B.**, & Mather, M (*revise & resubmit*). Being hungry influences emotional arousal and how well goal-relevant stimuli are noticed and remembered.

#### *Book Chapters*

Whitbourne, S. K. & **Martins, B.** (2019). Psychotherapy with the underserved older adult population. In J. Zimmerman, J. Barnett, & L. Campbell (Eds.), *Bringing Psychotherapy to the Underserved* (pp TBD). New York, New York: Oxford University Press.

**Martins, B.**, & Mather, M. (2016). Default mode network and later-life emotion regulation: Linking functional connectivity patterns and emotional outcomes. In A. D. Ong & C. E. Löckenhoff (Eds.), *Emotion, aging, and health* (pp. 9-29). Washington, DC, US: American Psychological Association.

#### TALKS/PRESENTATIONS

**Martins, B.** Neural mechanisms of effective emotion regulation in later-life (January 9, 2019). McLean Center for Depression, Anxiety and Stress Research. Belmont, MA.

**Martins, B** & Hayes, J.P. Decreased fMRI Regulatory Activity in PTSD versus Trauma-Exposed Controls during Emotion Regulation Strategy Use (April 2018). Harvard Medical School Psychiatry Research Mysell Conference. Boston, MA.

**Martins, B** & Hayes, J.P. Decreased fMRI Regulatory Activity in PTSD versus Trauma-Exposed Controls during Emotion Regulation Strategy Use (April 2018). Harvard Medical School Psychiatry Research Mysell Conference. Boston, MA.

Vicaria, I.M. & **Martins, B.** Moderational role of aging and meditation on negative affect within the National Survey of Midlife Development in the United States (May 2017). Association for Psychological Science. Boston, MA.

Durbin, K., **Martins, B.**, & Mather, M. Age differences in appraisal and reappraisal of negative pictures (November 2016). Gerontological Society of America, New Orleans, LA.

**Martins, B.**, Florjanczyk, J., Amirian, T., Brasfield, K., Jackson, N. & Mather, M. Age-related differences in cognitive effort during emotion regulation (November 2016). Gerontological Society of America, New Orleans, LA.

**Martins, B.**, Tranton, H., Aboseif, A., Sheppes, G., Gross, J. & Mather, M. Effect of arousal and valence on emotion regulation choice in older and younger adults (November 2014). Gerontological Society of America, Washington, D.C.

**Martins, B.**, Velasco, R., Ponzio, A., Kaplan, J. & Mather, M. (April 2013). Multi-voxel pattern analyses reveal age-differences in specificity of emotion regulation strategies. Cognitive Neuroscience Society, San Francisco, CA.

**Martins, B.**, Yarkoni, T., Westbrook, A., Braver, T.S, Strategy training reduces risk aversion, but less so in older adults: A case of goal neglect? (Nov 2010) Society for Judgment and Decision-Making: St. Louis, MO.

**Martins, B.S.**, Scullin, M.K., Cole, M.W., LaMontagne, P, Braver, T.S, McDaniel, M.A. A multiprocess view of the neural mechanism of prospective memory (July 2010). 3rd International Prospective Memory Conference, Vancouver, BC.

**Martins B.S.**, Pathak S., Bleicher A., Schneider W. Minimizing brain network damage via fMRI and Diffusion Weighted Imaging in neurosurgical planning (June, 2009). Human Brain Mapping, San Francisco, CA.

Cole M.W., Kunkel A., **Martins B.S.**, Schneider W. The neural basis of rapid instructed task learning (November, 2008). Society for Neuroscience, Washington, DC.

Boada F., Schneider W., Pathak S., **Martins B.S.**, Davis D., Bleicher A. Integration of diffusion weighted imaging and fMRI to identify differential fiber loss in pre-surgical planning (September, 2008). ISMRM Cancer Workshop, Nice, France.

Pathak S\*, **Martins B.S\***, Cole M.W., Schneider W. Anatomical and functional segmentation of the cognitive control network: Supporting a preliminary cognitive control network connectome. Cognitive Neuroscience Society (April, 2008). San Francisco, CA.

Cole M.W., **Martins B.S.**, Schneider W. The neural basis of rapid instructed task learning. Cognitive Neuroscience Society (April, 2008). San Francisco, CA.

## PROGRAMMING & STATISTICAL SKILLS

**Over 8 years of experience with MRI data analysis**, including analyses of task-related fMRI, network analyses of resting state fMRI, pattern classification using multivariate pattern classification algorithms, and DTI/DSI analysis of white matter tracks.

- MRI analysis in FSL, AFNI, fsl, Freesurfer, Brain Voyager, TrackVis, PyMVPA
- Scripting in Matlab, bash, R
- General Linear Modeling, Multi-level Modeling (MLM) in SPSS and R
- Experimental Design of cognitive tasks in E-prime and Matlab
- Psychophysiological data collection and cleaning in BIOPAC, AcqKnowledge, and ANSLab
- Heart Rate Variability (HRV) analysis in Kubios and R-HRV

CLINICAL EXPERIENCE

- 2017-  
2018 **VA Boston Healthcare System, Geropsychology Fellow**  
*Supervisors: Kate Hinrichs, Ph.D, ABPP, Michelle Mlinac, Psy.D., Margaret Murphy, Psy.D, Colleen Jackson, Ph.D/ABPP-CN, Lindsey Jacobs, Ph.D.*
- Conducted neuropsychological assessments reports for with older adult Veterans with diverse neurological conditions. Delivered outpatient individual therapy and groups with Veterans in the Geriatric Mental Health clinic with focus on CBT and ACT. Worked as C-L psychologist on nursing home subacute rehab and long term care/hospice.
  - Supervised interns and diprac students rotating through outpatient and nursing home settings.
  - Conducted in-home visit assessments and capacity evaluations as a member of the Home-Based Primary Care interdisciplinary treatment team
  - Assessed cognitive and mood functioning in outpatient Geriatrics Primary Care clinic, providing in-the-moment feedback and recommendations to older adults and their families
- 2016-  
2017 **VA Boston Healthcare System, Geropsychology Intern**  
*Supervisors: Deepa Acharya, Ph.D, ABPP, Katherine King, Psy.D, Lindsey Jacobs, Ph.D.; Dr. Kysa Christie, Dr. Melissa Amick*
- Administered, interpreted, wrote integrated neuropsychological assessments reports for with older adult Veterans. Conducted individual therapy with older adult Veterans in outpatient Geriatric Mental Health treatment team. Ran telephone group caregiver support group
  - Conducted inpatient and outpatient psychosocial assessments and therapy with Veterans with Spinal Cord Injury (SCI)
  - Provided telehealth video conferencing individual therapy to Veterans with SCI
- 2015-  
2016 **White Memorial Medical Center, Diabetes Program Intern/Project Lead**  
*Supervisors: Joanne Steuer, Ph.D., Mary D'Avila, RDN, CDE*
- Established interdisciplinary older adult diabetes education and emotional coping monthly workshop with the Diabetes Program at WMMC
  - Taught patients to assess emotional barriers to treatment compliance, and tailored recommendations to each patient at high-risk for hospital re-admission
- 2012-  
2016 **USC Psychology Services Center, Therapy Trainee**  
*Supervisors: Shannon Couture, Ph.D., Bob Knight, Ph.D., Steve Lopez, Ph.D., Joanne Steuer, Ph.D.*
- Conducted weekly individual and group therapy sessions with diverse adult and older adult patients at low-cost community clinic
  - Utilized cognitive-behavioral, exposure, relaxation, and mindfulness techniques
- 2014-  
2015 **Long Beach Veteran Affairs Healthcare System, Neuropsychology Extern**  
*Supervisor: Duke Han, Ph.D., ABPP*
- Conducted, interpreted, and wrote integrated neuropsychological assessment reports
- 2012-  
2014 **USC Tingstad Older Adult Counseling Center, Therapy Trainee**  
*Supervisors: Bob Knight, Ph.D., and Joanne Steuer, Ph.D.*

- Provided outpatient and home-based individual therapy to patients with significant medical and mobility constraints in individual therapy
- Conducted 6-week individual therapy with caregivers, and co-led monthly caregiver support group

2011-2014 **USC Keck Medical Center- Dept of Neurology**, Neuropsychological Examiner  
*Supervisors: Carol McCleary, Ph.D. & Kecia Watari, Ph. D.*

- Neuropsychological assessment of adults and older adults at outpatient clinic to inform medical treatment for patients with Parkinson's Disease, dementia, epilepsy, and memory impairment. Conducted pre-neurosurgery consults for the USC Center for Deep Brain Stimulation

2012-2013 **White Memorial Medical Center**, Consultation-Liaison and Therapy Intern  
*Supervisors: Joanne Steuer, Ph.D.*

- Conducted brief inpatient assessments and stress reduction with adults and older adult inpatients in skilled nursing facility.
- Performed short-term psychotherapy for stroke patients in outpatient cardiac rehabilitation clinic.

## TEACHING EXPERIENCE

Spring 2019 **PSYCH 391- Seminar in Health and Aging**  
Course Instructor

Fall 2018 **PSYCH 365- Psychology of Aging**  
Course Instructor

- 60-student course on aging and adult lifespan development, co-taught by four undergraduate TAs leading small group discussions.

Spring 2015 **PSYC 660- Clinical Neuropsychological Assessment**  
Teaching Assistant & Student Supervisor

- One-on-one supervision of graduate students on administration, scoring, and interpretation of neuropsychological profiles of USC Neurology patients for graduate seminar

### *Didactic Presentations*

**Martins, B & Bamonti, P.** Coping with difficult diagnoses: Stress, Coping and Outcomes. Geriatric Mental Health Seminar- Brockton VA (June 2018). Brockton, MA.

**Martins, B.** Later-Life Stereotypes and Identity: Impact of Ageism in Aging Trajectories. Geriatric Mental Health Seminar- Brockton VA (April 2018). Brockton, MA.

**Martins, B.** Theories of Cognitive Aging: A Neuroscience Perspective. Geriatric Mental Health Seminar- Brockton VA (Jan 2018). Brockton, MA.

**Martins, B.\***, Gutierrez, I.A.\* Creating your research program: How to develop a unified research narrative during graduate school. Symposium at the APA Annual Convention (Aug 7 2015). Toronto, CA.

**Martins, B.** Emotion regulation in the aging brain. VALB Neuropsychology Seminar (Feb 24, 2015), VA Long Beach.

**Martins, B.S.\***, Guzman-Velez, E.\* Giving yourself an edge: Frank advice on funding for graduate research. Symposium at the APA Annual Convention (Aug 9, 2014). Washington D.C.

**Martins, B.** Statistical procedures in MRI data analysis. Graduate Consultation and Computer Center (GC3) Lecture Series (Mar 12, 2014) USC, Los Angeles, CA.

### PROFESSIONAL ASSOCIATIONS

- American Psychological Association- Division 12-II, 20 & Division 40
- Gerontological Society of America
- Cognitive Neuroscience Society
- Society for Neuroscience

2013 – **APA Graduate Student Association (APAGS)**

2015 *Appointed Science Subcommittee Member*

- Grant reviewer for APAGS/Psi Chi Basic Scientist Grant and Junior Scientist Fellowships
- Editor for *Translational Issues in Psychological Science* journal

### WORKSHOPS & SEMINARS

Oct. 2016 **Motivational Interviewing in Primary Care**  
Sarah Bankoff Leone, Ph.D.

April 2016 **Resolving Complex Ethical and Multicultural Dilemmas in Psychological Practice**  
Erica H. Wise, Ph.D

April 2015 **Teaching Evidence-Based Practices in a University Context: From Driving the Car to Building the Car**  
Bruce Chorpita, Ph.D

Dec. 2014 **Understanding the DSM 5: Problems and Prospects in the Diagnostic Revisions**  
Greg Neimeyer, Ph.D.

April 2014 **Introduction to Acceptance and Commitment Therapy**  
Emmanuel Espejo, Ph.D.

April 2014 **Dialectical Behavior Therapy**  
Lynn McFarr, Ph.D.

Oct. 2013 **Dancing with ‘The Risks’: Safe Steps, Tricky Steps, & Landmines**  
Steven Frankel, Ph.D., J.D.

April 2013 **CBT for Insomnia**  
Joseph M. Dzierzewski, Ph.D

Sept. 2012 **Cognitive Processing Therapy: An Overview**  
Patricia A. Resick, Ph.D., ABPP

Oct. 2011 **Law & Ethics Greatest ‘Hits’: Alerting You to the Most Frequent Problems for Mental Health Professionals**  
Steven Frankel, Ph.D., J.D.

Feb. 2011 **Motivational Interviewing: What It Is, How It Works, How to Learn It**  
William Miller, Ph.D.

LANGUAGES

- English (fluent), Portuguese (fluent), French (proficient)