

CURRICULUM VITAE

RAIMI L. QUITON, Ph.D.

EDUCATION

Ph.D. 2007 University of Maryland, Baltimore, Neuroscience
B.S. 1989 Stanford University, Chemistry

Experience in Higher Education

2013-present University of Maryland, Baltimore County, Assistant Professor, Psychology
2013-present University of Maryland, Baltimore, Secondary appointment, Assistant Professor,
Anatomy & Neurobiology
2013-present University of Maryland, Baltimore, Secondary appointment, Assistant Professor,
Department of Neural and Pain Sciences
2010-2013 Anne Arundel Community College, Arnold, MD, Assistant Professor, Biology
2007-2010 Anne Arundel Community College, Arnold, MD, Adjunct Assistant Professor, Biology
2007-2010 Postdoctoral Fellowship in pain neurophysiology, University of Maryland, Baltimore,
Department of Anatomy and Neurobiology

Experience in Other than Higher Education

1995-2000 Tetra Tech EM Inc., San Francisco, CA
Technical Writer/Project Manager/Senior Environmental Chemist
1994-1995 ICF Kaiser Engineers, San Francisco, CA, Data Validation Chemist
1991-1994 Curtis & Tompkins, Ltd., Berkeley, CA, Analytical Chemist

Research Support and/or Fellowships (Current)

2016-2018 UMBC Department of Psychology Research Fellowship
Co-PI with Dr. Rebecca Schacht
"Racial differences in neural mechanisms of PTSD and pain"

Research Support and/or Fellowships In Preparation (to be submitted dates)

2018 (Oct) Multi-PI ROI National Institute of Minority Health and Health Disparities
Co-PI with Drs. Vani Mathur (Texas A&M Univ.) and Rebecca Schacht (UMBC)
"Racial disparities in comorbid pain and PTSD"
2019 (Feb) Multi-PI R01 National Institute of Neurological Disorders and Stroke
Co-PI with Dr. David Seminowicz (UMB)
"The role of psychosocial factors on brain networks underlying migraine"

Research Support and/or Fellowships (Past)

- 2015-2017 UMB-UMBC Innovation Challenge Grant
Co-PI with Drs. Radi Masri and David Seminowicz (UMB)
"The role of the superior colliculus in migraine pathophysiology"
- 2015-2017 UMBC Department of Psychology Research Fellowship
Co-PI with Dr. Lyn Dahlquist
"Using an Executive Working Memory Task to Inhibit Pain in Children"
- 2015 Psychology Department Summer Faculty Fellowship
One-month summer salary support to develop external funding proposal
- 2015 CAHSS Dean's Research Fund, UMBC
"Pain disparities projects neuroimaging data server"
- 2014-2015 Summer Research Assistantship/Initiative Support (SRAIS) Faculty Grant
UMBC Office of Research
"Neural mechanisms of the influence of dispositional optimism on pain"
- 2008-2010 Ruth L. Kirschstein National Research Service Award
Individual Postdoctoral Fellowship (Principal Investigator)
National Institute of Neurological Disorders and Stroke
"Thalamocortical Abnormalities in Central Pain Syndrome"
- 2005-2007 Ruth L. Kirschstein National Research Service Award
Individual Predoctoral Fellowship (Principal Investigator)
National Institute of Neurological Disorders and Stroke
"Sex Differences in Endogenous Pain Modulation"

Ph.D. Student Committees

- Samantha Bento (proposal defense expected 2018), Member
- Danielle Shaked (proposal defense expected 2018), Member
- Caroline Demro (dissertation defended 4/23/2018), Member and Dean's representative
- Sabrina Ereshevsky (proposal defense 8/10/2017), Member
- Wendy Pinder (proposal defended 5/22/2017), Member
- Faren Grant (degree conferred 2016), Member
- Emily Foxencraft (degree conferred 2016), Member and reader
- Jessica Hoehn (degree conferred 2016), Member and reader
- Caitlin Thompson (degree conferred 2016), Member and reader
- Emily Wald (degree conferred 2016), Member

Master's Student Committees

Caroline Hinkle (proposal defended 12/7/2017), Mentor and Chair

Breanna Holloway (proposal defended 1/12/2017), Member

Samantha Bento (degree conferred 2016), Member

Caroline Demro (degree conferred 2016), Member

Master's Research Competency Students Committees

Christa Lewis, 2017 (Mentor)

Sabrina Ereshevsky, 2014

Emily Wald, 2014

Undergraduate Students: Received Undergraduate Research Awards for independent research from UMBC

Jessica Black, Psychology BS/Biology BS, 2016-2018, independent research project mentor: "Sex Differences in Migraine Neurophysiology"

Himadri Patel, Interdisciplinary Studies Major, 2014-2016, capstone project mentor/committee member: "Brain Mechanisms of Stress-Induced Analgesia"

Robin Arnold, Psychology BA, 2013-2015, independent research project mentor: "The role of neighborhood disorder on pain and brain structure of pain processing regions"

Undergraduate Students, Interdisciplinary Studies in Neuroscience Committees

Tziona NessAiver, Intersiplinary Studies Major, 2015-present, member and co-mentor

Priyanka Prasad, Interdisciplinary Studies Major, 2013-present, member and co-mentor

Himadri Patel, Interdisciplinary Studies Major, 2014-2017, member and research mentor

Krithika Prakash, Interdisciplinary Studies Major, 2015-2017, member and co-mentor

Sharde Hoff, Interdisciplinary Studies Major, 2013-2015, member and co-mentor

PUBLICATIONS, PRESENTATIONS, AND CREATIVE ACHIEVEMENTS**Publications****Peer-Reviewed Works**

Chiappelli, J., Shi, Q., Wittenburg, S.A., **Quiton, R.L.**, Wisner, K., Gaston, F. Kodi, P., Gaudiot, C., Kochunov, P., Rowland, L.M., Hong, E.E. 2018. Glutamatergic response to heat pain stress in schizophrenia. *Schizophrenia Bulletin* 44(4): 886-95.

Alabwah, Y., Ji, Y., Seminowicz, D.A., **Quiton, R.L.**, Masri, R. 2016. Alcohol-Triggered Signs of Migraine: An Animal Model. *Somatosensory & Motor Research* 33(1): 35-41.

Quiton, R.L., Keaser, M.L, Zhuo J., Gullapalli R.P., Greenspan J.D. 2014. Intersession reliability of fMRI activation for heat pain and motor tasks. *Neuroimage Clinical* 22(5): 309-21.

Davoody, L*, **Quiton, R.L.***, Lucas, J.M., Ji Y, Keller, A, Masri, R. 2011. Conditioned place preference reveals tonic pain in an animal model of central pain. *Journal of Pain* 12(8): 868-74. (*equal contributors to publication)

Quiton, R.L., Masri, R., Thompson, S.M., Keller, A. 2010. Abnormal activity of primary somatosensory cortex in central pain syndrome. *Journal of Neurophysiology* 104(3): 1717-25.

Masri, R., **Quiton R.L.**, Lucas, J.M., Murray, P.D., Thompson, S.M., Keller, A. 2009. Zona incerta: A role in central pain. *Journal of Neurophysiology* 102(1): 181-91.

Quiton, R.L. and Greenspan, J.D. 2008. Across- and within-session variability of ratings of painful contact heat stimuli. *Pain* 137(2):245-56.

Quiton, R.L. and Greenspan, J.D. 2007. Sex differences in endogenous pain modulation by distracting and painful conditioning stimulation. *Pain* 132 Suppl 1:S134-49.

Non-Peer Reviewed Works

Quiton, R.L., Roys S.R., Zhuo J., Keaser M.L., Gullapalli R.P., Greenspan J.D. 2007. Age-related changes in nociceptive processing in the human brain. *Annals of the New York Academy of Sciences* 1097:175-8.

Works Submitted for Publication

Hinkle, C.E. and **Quiton, R.L.** Higher Dispositional Optimism Predicts Lower Pain Reduction During Conditioned Pain Modulation. 2018. Revision in review at *Journal of Pain*.

Song, X. Bhinge, S., **Quiton, R.L.** Adali, T. A novel approach for steady-state and transient analysis of task fMRI data: Application to study of thermal pain response. 2018. In review at *Neuroimage*.

Dahlquist, L., Pinder, W.M., Bento, S.P., Steiner, E.M., Zeroth, J.A., Parr, N.J, **Quiton, R.L.** Cognitive task engagement and cold pressor pain tolerance in children. 2018. In review at *Journal of Pain*.

Works in Preparation

Quiton, R.L., Boyd, E.L. Katzel, L.I., Waldstein, S.R. Biopsychosocial factors contributing to pain in healthy older people: A unique role of social support (to be submitted to Pain in June 2018)

Mathur, V.A. and **Quiton, R.L.** Race disparities in the brain response to pain: The role of discrimination and social support. (to be submitted in June 2018)

Quiton, R.L., Leibel, D., Boyd, E. L. Evans, M., Waldstein, S.R., Zonderman, A.B. The influence of sociodemographic factors on pain in an urban community sample: A study of intersectionality. (to be submitted in July 2018)

Kisser, J., **Quiton, R.L.**, Schacht, R.L., Katzel, L.I., Gullapalli, R., Seliger, S., Davatzikos, Erus, Evans, M.K., Zonderman, A.B., Waldstein, S.R. Race and sex differences between subclinical post-traumatic stress disorder symptoms and magnetic resonance imaging assessed brain volumes. (to be submitted in July 2018)

Lewis, C. and **Quiton, R.L.** Gender, social support, and catastrophizing: A conditional analysis of pain. (to be submitted in August 2018)

Zazanis, N. and **Quiton, R.L.** Alcohol consumption influences laboratory pain measures in healthy adults. (to be submitted in August 2018)

Boyd, E.L., Leibel, D., Taylor, A.D., Evans, M.K., Waldstein, S.R., Zonderman, A.B., **Quiton, R.L.** The influence of sociodemographic factors on pain-related disability in an urban community sample. (to be submitted in August 2018)

Quiton, R.L., Black, J., Zhang, J., Seminowicz, D.A. Brain responses to craniofacial and somatic pain differ in migraineurs: A preliminary study of maladaptive plasticity in migraine (to be submitted in Fall 2018)

Hinkle, C.E. and **Quiton, R.L.** The role of emotional distress in pain catastrophizing. (to be submitted in Fall 2018)

Quiton, R.L., Faulkner, L., Leibel, D., Evans, M.K., Waldstein, S.R., Zonderman, A.B. Psychosocial and lifestyle factors predicting sociodemographic differences in pain and pain-related disability. (to be submitted in Fall 2018)

Quiton, R.L., Faulkner, L., Schacht, R.L., Evans, M.K., Waldstein, S.R., Zonderman, A.B. Racial differences in comorbid pain and PTSD in an urban community population. (to be submitted in Fall 2018)

Conference Presentations**Symposia**

Quiton, R.L. (moderator and speaker), Goodin, B.R., Mathur, V.A. Symposium: Social Determinants of Pain Disparities: Community-, Clinical-, and Neuroimaging-level evidence. Accepted for the American Pain Society Annual Meeting, Pittsburgh, PA, May 2017

Quiton, R.L. (panel speaker). Individual differences in brain responses to pain: Exploring the contribution of sociocultural factors. Maryland Neuroimaging Retreat, Pain Neuroimaging: Advances and Controversies. Other panelists: Wager, T. and Colloca, L. April 2017.

Peer-reviewed Papers

Song, X., Bhingé, S., **Quiton, R.L.**, Adali, T. A two-level ICA approach reveals important differences in the female brain response to thermal pain. Peer-reviewed conference paper presented at the IEEE International Symposium on Biomedical Imaging (ISBI), April 2018.

Posters

Black, J.E., Zhang, J., Seminowicz, D.A., **Quiton, R.L.** Differences in pain processing between migraine patients and healthy controls. To be presented at the International Association for the Study of Pain World Congress, Boston, MA, September 2018

Hinkle, C.E. and **Quiton, R.L.** Optimism is positively associated with pain-related brain activity during heat stimulation. To be presented at the International Association for the Study of Pain World Congress, Boston, MA, September 2018

Dell'Acqua, L.A. and **Quiton, R.L.** Brain responses to painful heat differ based on race/ethnicity: A pilot study. To be presented at the International Association for the Study of Pain World Congress, Boston, MA, September 2018

Lewis, C.R. and **Quiton, R.L.** Gender, social support, and catastrophizing: A conditional analysis of pain. To be presented at the International Association for the Study of Pain World Congress, Boston, MA, September 2018

Ekwanazu, C.C., Sutton, A., Hale, M., **Quiton, R.L.** Perceived social support is associated with decreased heat-pain related activity in the anterior cingulate cortex. American Pain Society Annual Meeting, Anaheim, CA, February 2018

Hinkle, C.E., Boyd, E.L., **Quiton, R.L.** Unexpected relationship between optimism and pain reduction in a conditioned pain modulation paradigm. American Pain Society Annual Meeting, Pittsburgh, PA, May 2017

Black, J.E., Zhang, J., Seminowicz, D.A., **Quiton, R.L.** Painful thermal stimulation to the face and arm produces different patterns of brain activity in migraine patients and controls. American Pain Society Annual Meeting, Pittsburgh, PA, May 2017

Conference Presentations (continued)**Posters (continued)**

- Boyd, E.L., **Quiton, R.L.**, Leibel, D.K., Taylor, A.D., Evans, M.K., Waldstein, S.R., Zonderman, A.B.
Discrimination Hurts: A study on the influence of perceived discrimination on the relationship between the intersectionality of sociodemographic factors and pain interference. International Association for the Study of Pain Meeting, Yokohama, Japan, October 2016
- Boyd, E.L., **Quiton, R.L.**, Leibel, D.K., Taylor, A.D., Evans, M.K., Waldstein, S.R., Zonderman, A.B. Pain and poverty: A study of the intersectionality of demographic and socioeconomic factors on pain interference. American Pain Society Annual Meeting, Austin, Texas, May 2016
- Seminowicz, D., Johani, H., Yoo, S., Masri, R., **Quiton, R.L.** Superior colliculus: A role in migraine? Society for Neuroscience Annual Meeting, Chicago, Illinois, 2015
- Mathur, V., Boyd, E.L., **Quiton R.L.** Optimism is associated with bilateral anterior insula activity during a conditioned pain modulation paradigm. American Pain Society Annual Meeting, Palm Springs, California, 2015
- Boyd, E.L., **Quiton R.L.** Unexpected relationship between perceived ethnic discrimination and pain in young adults. American Pain Society Annual Meeting, Palm Springs, California, 2015
- Boyd, E.L., Waldstein, S.R., Katzel, L.I., **Quiton, R.L.** Gender differences in the relationship between social support and pain in healthy older adults. American Pain Society Annual Meeting, Palm Springs, California, 2015
- Lucas, J.M., **Quiton, R.L.**, Thompson, S.M., Keller, A., Masri, R. Central pain syndrome: Abnormalities in primary somatosensory cortex, and therapeutic potential of zona incerta stimulation. Society for Neuroscience 37th Annual Meeting, Chicago, Illinois, 2009
- Quiton, R.L.**, Masri, R.M., Wang, G., Thompson, S.M., Keller, A. Zona incerta: A certain role in central pain. International Association for the Study of Pain, 12th World Congress on Pain, Glasgow, Scotland, 2008
- Quiton, R.L.** and Greenspan, J.D. Sex differences in the magnitude of distraction-evoked endogenous analgesia and in the contribution of stress to pain-evoked endogenous analgesia. Organization for the Study of Sex Differences 1st Annual Meeting, Washington, D.C., 2007
- Quiton, R.L.** and Greenspan, J.D. Sex differences in endogenous analgesia evoked by distraction, stress, and pain. Society for Neuroscience 36th Annual Meeting, Atlanta, Georgia, 2006
- Quiton, R.L.**, Bedekar, G., Roys, S.R., Zhuo, J., Keaser, M.L., Goloubeva, O.G., Gullapalli, R.P., Greenspan, J.D. Age-related changes in nociceptive and motor processing in the human brain. Organization for Human Brain Mapping 12th Annual Meeting, Florence, Italy, 2006

Conference/Poster Presentations (continued)**Posters (continued)**

Quiton, R.L., Bedekar, G., Roys, S.R., Zhuo, J., Keaser, M.L., Greenspan, J.D., Gullapalli, R.P. (Presented by Gullapalli R.P.) Age-related motor and nociceptive cortical processing changes revealed with fMRI. International Society for Magnetic Resonance in Medicine 14th Scientific Meeting & Exhibition, Seattle, Washington, 2006

Quiton, R.L. and Greenspan, J.D. Sex differences in distraction-, stress-, and pain-evoked endogenous analgesia. National Institutes of Health Pain Consortium Symposium, Bethesda, Maryland, 2006

Quiton, R.L., Roys, S.R., Zhuo, J., Keaser, M.L., Gullapalli, R.P., Greenspan, J.D. Age-related changes in nociceptive processing in the human brain. New York Academy of Sciences and American Federation for Aging Research, "Imaging and the Aging Brain" conference, New York, New York, 2006

Quiton, R.L., Gullapalli, R.P., Roys, S.R., Keaser, M.L., Greenspan, J.D. Age-related changes in cortical nociceptive processing revealed with fMRI. Society for Neuroscience 35th Annual Meeting, Washington D.C., 2005 (Presentation)

Quiton, R.L., Roys, S.R., Keaser, M.L., Lefkowitz, D.M., Gullapalli, R.P., Greenspan, J.D. Physiological noise filtering of fMRI data: Effects on the repeatability of pain-related activation. Organization for Human Brain Mapping 11th Annual Meeting, Toronto, Canada, 2005

Quiton, R.L., Gullapalli, R.P., Keaser, M.L., Greenspan, J.D. 2005. Repeatability of pain-related fMRI activation in the human brain. American Pain Society 24th Annual Scientific Meeting, Boston, Massachusetts, 2005. Society for Neuroscience 34th Annual Meeting, San Diego, California, 2004

SERVICE TO THE DEPARTMENT

2015-2017	Member, Advisory committee to the Chair
2014-2018	Member, Undergraduate committee
2013-present	Member, Human Services Psychology Graduate Program

SERVICE TO THE UNIVERSITY

2016-2018	Research proposal reviewer, SRAIS/START Faculty Grants Program
2017 & 2018	Undergraduate Research, invited speaker for URCAD presenters "Preparing an Effective Research Poster"
2015	Student research proposal reviewer, McNair Scholars Program
2015-present	Member, Campus-wide grade review panel

SERVICE TO THE PROFESSION

- 2016-present Board Member, Special Interest Group on Pain Disparities,
 American Pain Society
- 2018-present *Ad hoc* manuscript reviewer for *Pain Reports*
- 2015-present *Ad hoc* manuscript reviewer for *Pain*
- 2015-present *Ad hoc* manuscript reviewer for *Brain Imaging and Behavior*