

## CURRICULUM VITAE

**Vani A. Mathur**

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### ACADEMIC APPOINTMENT

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2015 Assistant Professor of Diversity Science and Well-Being,  
Diversity Science Cluster & Social and Personality Area,  
Department of Psychological and Brain Sciences  
Training Faculty Member, Institute for Neuroscience (TAMIN), 2015 - present  
Faculty Fellow, Center for Health Systems & Design (CHSD), 2018 – present  
Faculty Affiliate, Center for Population Health and Aging (CPHA), 2019-present  
Texas A&M University

### EDUCATION

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2012 Ph.D. in Psychology  
Brain, Behavior, and Cognition Program, Northwestern University  
Dissertation: *Racial disparities in the subjective and neurobiological processing of pain perception and experience*

2009 M.S. in Psychology  
Brain, Behavior, and Cognition Program, Northwestern University  
Thesis: *Neural basis of intergroup biases in empathy and altruistic motivation*

2005 B.S. in Human Physiology  
Sargent College of Health & Rehabilitation Sciences, Boston University

### POSTDOCTORAL FELLOWSHIPS

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2014-2015 Department of Neural and Pain Sciences, University of Maryland, Baltimore

2012-2014 Interdisciplinary Training Program in Biobehavioral Pain Research, Johns Hopkins University

### HONORS, AWARDS & FELLOWSHIPS

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#### Competitive Fellowships

2012 Interdisciplinary Biobehavioral Pain Research Fellow, Johns Hopkins University  
2010 Philip Brickman Endowment Fellowship, Northwestern University  
2009 Society, Biology, and Health Cluster Fellowship, Northwestern University  
2007 Northwestern University Graduate School Research Fellowship

#### Professional Awards

2017 American Pain Society Future Leaders in Pain Research Award  
2015 Texas A&M University ADVANCE Scholar  
2013 NIH Health Disparities LRP  
2012 American Pain Society Pain & Disparities Shared Interest Group Young Investigator Award  
2012 Northwestern University Graduate Research Grant

- 2012 Northwestern University Graduate School Career Development Award
- 2010 Midwest Pain Society Robert G. Addison and E. Richard Blonsky Research Grant
- 2006 Women's Health Research Award, Massachusetts General Hospital

#### Other Honors

- 2018 College of Liberal Arts' NCFDD Faculty Success Program Award, Texas A&M University
- 2013 Semi-finalist, APA Jeffrey S. Tanaka Memorial Dissertation Award in Psychology
- 2013 American Pain Society Young Investigator Travel Award
- 2012 International Association for the Study of Pain Travel Grant for presentation at the World Congress on Pain
- 2012 American Pain Society Young Investigator Travel Award
- 2012 Northwestern University Graduate School Travel Grant for presentation at the American Pain Society Meeting
- 2012 Northwestern University Society, Biology, and Health Travel Grant
- 2011 Society for Personality and Social Psychology Student Travel Award
- 2011 Northwestern University Society, Biology, and Health Travel Grant
- 2011 Northwestern University Graduate School Travel Grant for presentation at the Society for Personality and Social Psychology Meeting
- 2010 American Pain Society Young Investigator Travel Award
- 2010 Northwestern University Graduate School Travel Grant for presentation at the American Pain Society Meeting
- 2009 Northwestern University Graduate School Travel Grant for presentation at the Cognitive Neuroscience Society Meeting
- 2009 Honorable Mention, National Science Foundation Graduate Research Fellowship
- 2008 Honorable Mention, National Science Foundation Graduate Research Fellowship
- 2005 Cum Laude, Boston University
- 2004 Golden Key International Honour Society
- 2003 National Society of Collegiate Scholars

#### PUBLICATIONS (mentees underlined)

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- Ng, B.W., Nanavaty, N., **Mathur, V.A.** (in press). The influence of Latinx American identity on pain perception and treatment seeking. *Journal of Pain Research*.
- Petre, B., Tetreault, P., **Mathur, V.A.**, Schurgin, M., Chiao, J., Huang, L., Apkarian, A.V. (2017). A central mechanism enhances pain perception of noxious thermal stimulus changes. *Scientific Reports*, 7(1), 3894.
- Speed, T.J., **Mathur, V.A.**, Hand, M., Christensen, B., Sponseller, P.D., Williams, K.A., Campbell, C.M. (2016). Characterization of pain, disability, and psychological burden in Marfan syndrome. *American Journal of Medical Genetics Part A*. 9999A:1–9.
- Mathur, V.A.**, Kiley, K.B., Pejsa, M., Haywood, C., Bediako, S., Lanzkron, S., Buenaver, L.F., Edwards, R.R., Haythornthwaite, J.A., Campbell, C.M. (2016). Multiple-levels of suffering: Discrimination in health care settings is associated with greater laboratory pain sensitivity in sickle cell disease. *Clinical Journal of Pain*, 32(12), 1076-1085.
- Mathur, V.A.**, Kiley, K.B., Carroll, C.P., Edwards, R.R., Lanzkron, S., Haythornthwaite, J.A., Campbell, C.M. (2016). Disease related, non-disease related, and situational catastrophizing in sickle cell disease and its relationship with pain. *Journal of Pain*, 17(11), 1227-1236.
- Mathur, V.A.**, Moayedi, M., Keaser, M.L., Khan, S.A., Hubbard, C.S., Goyal, M., Seminowicz, D.A. (2016). High frequency migraine is associated with lower acute pain sensitivity and abnormal

- insula activity related to migraine pain intensity, attack frequency, and pain catastrophizing. *Frontiers in Human Neuroscience*, 10, 489.
- Mathur, V.A.**, Cheon B.K., Harada, T., Scimeca, J., Chiao, J.Y. (2016). Overlapping neural response to the pain or harm of people, animals, and nature. *Neuropsychologia*, 81, 265-273.
- Chiao, J.Y. & **Mathur, V.A.** (2016). Cultural neuroscience of pain and empathy. In Chiao, J.Y., Li, S., Seligman, R., and Turner, R. (Eds.) *Handbook of Cultural Neuroscience*. (Ch. 18). Oxford, UK: Oxford University Press.
- Mathur, V.A.**, Khan, S.A., Keaser, M.L., Hubbard, C.S., Goyal, M., Seminowicz, D.A. (2015). Altered cognition-related brain activity and interactions with acute pain in migraine. *NeuroImage: Clinical*, 7, 347–358.
- Mathur, V.A.**, Richeson, J.A., Paice, J.A., Muzyka, M., Chiao, J.Y. (2014). Racial bias in pain perception and response: experimental examination of automatic and deliberate processes. *Journal of Pain*, 15(5), 476–484.
- Hubbard, C.S., Khan, S.A., Keaser, M.L., **Mathur, V.A.**, Goyal, M., Seminowicz, D.A. (2014). Altered brain structure and function correlate with disease severity and pain catastrophizing in migraine patients. *eNeuro*, 1(1).
- Cheon, B.K., Im, D., Harada, T., Kim, J., **Mathur, V.A.**, Scimeca, J., Parrish, T.B., Park, H., Chiao, J.Y. (2013). The cultural modulation of the neural correlates of empathy: The role of 'other-focusedness.' *Neuropsychologia*, 51(7), 1177-1186.
- Campbell, C.M., McCauley, L., Bounds, S.C., **Mathur, V.A.**, Conn, L., Simango, M., Edwards, R.R., Fontaine, K. (2012). Changes in pain catastrophizing predict later changes in fibromyalgia clinical and experimental pain report: Cross-lagged panel analyses of dispositional and situational catastrophizing. *Arthritis Research & Therapy*, 14(5), R231.
- Mathur, V.A.**, Harada, T., Chiao, J.Y. (2012). Racial identification modulates default network activity for same and other races. *Human Brain Mapping*, 33(8): 1883-1893.
- Chiao, J.Y., Blizinsky, K.D., **Mathur, V.A.**, Cheon, B.K. (2011). Culture-gene coevolution of empathy and altruism. In Oakley, B., Knafo, A., Madhavan, G., Wilson, D.S. (Eds.) *Pathological Altruism* (Ch. 22). Oxford, UK: Oxford University Press.
- Cheon, B.K., Im, D., Harada, T., Kim, J., **Mathur, V.A.**, Scimeca, J., Parrish, T.B., Park, H., Chiao, J.Y. (2011). Cultural influences on neural basis of intergroup empathy. *NeuroImage*, 57(2), 642-650.
- Cheon, B.K., **Mathur, V.A.**, Chiao, J.Y. (2010). Empathy as cultural process: Insights from the cultural neuroscience of empathy. *World Cultural Psychiatry Research Review*, 5, 32-42.
- Chiao, J.Y. & **Mathur, V.A.** (2010). Intergroup empathy: Empathic neural response for same- but not other-races. *Current Biology*, 20(11): R478-R480.
- Mathur, V.A.**, Harada, T., Lipke, T., Chiao, J.Y. (2010). Neural basis of extraordinary empathy and altruistic motivation. *NeuroImage*, 51(4): 1468-1475.
- Chiao, J.Y., **Mathur, V.A.**, Harada, T., Lipke, T. (2009). Neural basis of preference for hierarchy versus egalitarianism. *Annals of the New York Academy of Sciences*, 1167, 174-81.

Lawson, E.A., Miller, K.K., **Mathur, V.A.**, Misra, M., Meenaghan, E., Herzog, D.B., Klibanski, A. (2007). Hormonal and nutritional effects on cardiovascular risk markers in young women. *Journal of Clinical Endocrinology and Metabolism*, 92(8):3089-94.

Miller, K.K., Lawson, E., **Mathur, V.**, Wexler, T., Meenaghan, E., Misra, M., Herzog, D., Klibanski, A. (2007). Androgens in women with anorexia nervosa and normal-weight women with hypothalamic amenorrhea. *Journal of Clinical Endocrinology and Metabolism*, 92(4):1334-9.

#### Forthcoming Manuscripts

**Mathur, V.A.**, Morris, T., McNamara, K. (under review). Cultural beliefs and disparities in perception of labor pain.

**Mathur, V.A.** & Quito, R.L. (in preparation). Race disparities and racial discrimination in neural pain response.

**Mathur, V.A.** (in preparation). Social determinants of pain disparities.

Burrowes, S.A.B., Keaser, M.L., Khan, S.A., **Mathur, V.A.**, Seminowicz, D.A., Goyal, M. (in preparation). Longitudinal effects of Vipassana meditation on chronic migraine pain and pain-related brain changes.

Boring, B., Ng, B., Peoples, S., Nanavaty, N., **Mathur, V.A.** (in preparation). Acute effects of subjective social status on pain tolerance.

Kim, H., Nanavaty, N., **Mathur, V.A.**, Anderson, B.A. (in preparation). Neural correlates of attentional bias following aversive conditioning: Evidence for valence-independent mechanisms of priority.

#### Book Review

Chiao, J.Y. & **Mathur, V.A.** (2010). The Brain's Pleasure [review of *Pleasures of the Brain*]. *PsychCRITIQUES*.

## **RESEARCH FUNDING**

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#### Current

National Institute on Drug Abuse (NIDA) R01  
*Components of Selection History and the Control of Attention*  
02/01/19-12/31/23  
Role: Co-Investigator (PI: Brian Anderson)

National Science Foundation (NSF)  
*Collaborative Research: The Texas A&M System AGEP Alliance: A Model to Advance Historically Underrepresented Minorities in the STEM Professoriate (AGEP TxARM)*  
09/01/17-8/31/22  
Role: Co-Investigator

Startup Funding from Texas A&M University to Vani A. Mathur  
Role: Principal Investigator

#### Under Review

National Cancer Institute (NCI) R01

*Aversive Information Processing Biases in Smokers*

01/01/20-12/31/24

Role: Co-Investigator (PI: Brian Anderson, TAMU Psychology)

#### In Preparation

National Institute of Minority Health and Health Disparities (NIMHD) R01

*Racial differences in neural mechanisms of PTSD and pain*

Role: Multi-Principal Investigator with Raimi Quito & Rebecca Schacht

#### Completed

APS Future Leaders in Pain Research Grant (\$25,000)

*Social mechanisms of psychophysical pain disparities*

10/01/17-08/15/19

Role: Principal Investigator

Texas A&M Division of Research PESCA Grant (\$17,977.22)

*Neural Mechanisms of Attention to Pain Cues*

05/01/17-4/30/18

Role: Co-Principal Investigator

Texas A&M Liberal Arts Social Science Consortium Proof of Concept Grant (\$4,000)

*Disparities in Labor Pain and Pain Management*

05/17-5/18

Role: Co-Principal Investigator

National Institutes of Health Ruth L. Kirschstein National Research Service Award T32

Program Directors: Gayle G. Page, RN, DNSc & Jennifer A. Haythornthwaite, PhD

07/09/12-07/09/14

Role: Post-doctoral Trainee

National Institute of Neurological Disorders and Stroke (NINDS) 1R21NS074017-01A1

*Racial disparities in pain experience: Neuroimaging and behavioral investigations*

7/07/11-4/30/13

Role: Co-Investigator

Northwestern University Graduate Research Grant (\$3,000)

2012

Role: Principal Investigator

Midwest Pain Society Robert G. Addison and E. Richard Blonsky Research Grant (\$6,000)

2010-2012

Role: Principal Investigator

#### Mentorship and Student Focused Grants

National Science Foundation Graduate Research Fellowships Program (NSF GRFP) Fellow

Graduate Mentee: Namrata Nanavaty

2017-2020

Role: Primary Mentor

2019 American Pain Society Young Investigator Travel Award

Graduate Mentee: Brandon Boring, in support for his Poster Presentation at the American Pain Society Annual Meeting

2018 American Pain Society Young Investigator Travel Award

Graduate Mentee: Namrata Nanavaty, in support for her Poster Presentation at the American Pain Society Scientific Summit

2017 George Bush Presidential Library Foundation Undergraduate Student Travel Grant

Undergraduate Mentee: Mollie Adams, in support of her Poster Presentation at the Annual Meeting of the Society for Personality and Social Psychology (SPSP)

Innovative Graduate Student Recruitment Grant

*Promoting the recruitment, retention, and success of graduate students from diverse backgrounds*

Texas A&M University Office of Graduate and Professional Studies

01/08/16-8/31/16

Role: Collaboration with Sherecce Fields, Rachel Smallman, Jessica Bernard, Joseph Orr

## CONFERENCE PRESENTATIONS (mentees underlined)

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### Symposia, Workshops, and Paper Paper Presentations

- Morris, T., **Mathur, V.A.**, McNamara, K. (submitted). *Cultural Conceptions of Women's Labor Pain and Labor Pain Management*. Paper Presentation, 114<sup>th</sup> Annual Meeting of the American Sociological Association, New York, NY.
- Mathur, V.A.** & Nanavaty, N. (2019). *Pain experience and physiology among Latinx and White Americans*. Symposium Presentation in *Emerging perspectives on sociodemographic disparities in pain* session. 20<sup>th</sup> Annual Meeting of the Society for Personality and Social Psychology, Portland, OR.
- Morris, T., **Mathur, V.A.**, McNamara, K. (2018). *Stratification in perceptions and beliefs about women's labor pain and pain management*. Paper Presentation, Sociology of Reproduction Miniconference, Annual Meeting of the Eastern Sociological Society, Baltimore, MD.
- Mathur, V.A.** (2017). *Racial bias, discrimination, and disparities in pain*. Symposium Talk, Session: *Social Factors in Pain*, chair: Jennifer Crocker. 29<sup>th</sup> Association for Psychological Science Annual Convention, Boston, MA.
- Mathur, V.A.**, Quiton R.L., & Goodin, B.R. (2017). Co-organized Symposium: *Social Determinants of Pain Disparities: Community-, Clinical-, and Neuroimaging-level Evidence*. Speaker, 36<sup>th</sup> Annual Scientific Meeting of the American Pain Society, Pittsburgh, PA.
- Mathur, V.A.**, Khan, S.A., Hubbard, C.S., Keaser, M.L., Goyal, M., Seminowicz, D.A. (2014). *Pain and cognitive neural processing in migraine and the influence of disease severity and pain catastrophizing*. Oral Presentation, Pain Imaging: From Neural Circuits to Perception Nanosymposium, 44<sup>th</sup> Annual Meeting of the Society for Neuroscience, Washington, DC.
- Campbell, C.M., Buenaver, L., Christensen, B., Thaxton, L., Hand, M., **Mathur, V.**, Williams, K. (2014). *Pain and psychosocial aspects of individuals with Marfan Syndrome*. Oral Presentation, 9<sup>th</sup> International Symposium on Marfan Syndrome and Related Disorders, Paris, France.
- Mathur, V.A.** (2013). *Experience with discrimination is associated with increased pain-related neural response*. Oral Presentation, Clinical and Basic Science Data Blitz at the 32<sup>nd</sup> Annual Scientific Meeting of the American Pain Society, New Orleans, LA.
- Cheon, B.K., Im, D., Harada, T., **Mathur, V.A.**, Scimeca, J., Park, H., Chiao, J.Y. (2010). *Minding their pain: Cultural variation in mentalizing region activity for the emotional pain of ingroup relative to outgroup members*. Symposium Presentation, 4<sup>th</sup> Annual Social and Affective Neuroscience Conference, Chicago, IL.
- Mathur, V.A.** (2010). *Effects of race on pain perception and empathy*. Oral Presentation, Chicago Psychology Graduate Student Research Symposium, Chicago, IL.
- Chiao, J.Y., & **Mathur, V.A.** (2010). *Cultural neuroscience and environmental conservation: How does human diversity affect environmental sustainability?* Paper Presentation, KLI-IIASA Workshop on The Human Brain and the Social Bond: Exploring the Notion of Constrained Relativism. Vienna, Austria.

- Mathur, V.A.**, Harada, T., Chiao, J.Y. (2009). *Neural basis of intergroup empathy and altruistic motivation*. Oral Presentation, Emotion and Social Interaction Nanosymposium of the 39th Annual Meeting of the Society for Neuroscience, Chicago, IL.
- Cheon, B.K., Im, D., Harada, T., **Mathur, V.A.**, Scimeca, J., Park, H., Chiao, J.Y. (2009). *Cultural variation in ingroup empathic neural response within the temporo-parietal junction*. Oral Presentation, Emotion and Social Interaction Nanosymposium of the 39th Annual Meeting of the Society for Neuroscience, Chicago, IL.
- Miller, K.K., Lawson, E., **Mathur, V.**, Wexler, T., Meenaghan, E., Misra, M., Herzog, D., Klibanski, A. (2007). *Androgens in women with anorexia nervosa and normal-weight women with hypothalamic amenorrhea*. Oral Presentation, 89th Annual Meeting of the Endocrine Society, Toronto, ON, Canada.
- Utz, A.L., Lawson, E.A., Lee, E.E., **Mathur, V.A.**, Minihan, J.L., Misra, M., Herzog, D.B., Klibanski, A., Miller, K.K. (2006). *PYY predicts body mass index and bone mineral density in women with anorexia nervosa*. Oral Presentation, 88th Annual Meeting of the Endocrine Society, Boston, MA.

## Posters

- Nanavaty, N., Boring, B.L., Walsh, K.T., **Mathur, V.A.** (submitted). *Facets of discrimination and laboratory pain*. Next Generation Pain Therapeutics: from Basic Science to the Clinic conference, Houston, TX.
- Boring, B.L., Nanavaty, N., Walsh, K.T., **Mathur, V.A.** (submitted). *Subjective age predicts pain interference*. Next Generation Pain Therapeutics: from Basic Science to the Clinic conference, Houston, TX.
- Walsh, K.T., Nanavaty, N., Boring, B.L., **Mathur, V.A.** (submitted). *Experienced ostracism and pain sensitivity: A mini meta-analysis*. Next Generation Pain Therapeutics: from Basic Science to the Clinic conference, Houston, TX.
- Boring, B.L. & **Mathur, V.A.** (2020). *Social support quality predicts the experience of subclinical back pain*. 21<sup>st</sup> Annual Meeting of the Society for Personality and Social Psychology, New Orleans, LA.
- Rassu, F.S., Nanavaty, N., **Mathur, V.A.**, Meagher, M.W. (2019). *Enhanced temporal summation of mechanical pain in Hispanic relative to non-Hispanic White adults*. American Psychological Association (APA) Annual Convention, Chicago, IL.  
\*Recipient of the APA Division 12 Clinical Psychology of Ethnic Minorities Student Research Award
- Boring, B.L., Nanavaty, N., **Mathur, V.A.** (2019). *Subjective age is associated with temporal summation of mechanical pain*. Annual Scientific Meeting of the American Pain Society, Milwaukee, WI.
- Nanavaty, N., Boring, B.L., **Mathur, V.A.** (2019). *Disparities in laboratory pain amongst Latinx- and White-Americans*. Annual Scientific Meeting of the American Pain Society, Milwaukee, WI.
- Mathur, V.A.** (2019). *Social mechanisms of psychophysical pain disparities*. Annual Scientific Meeting of the American Pain Society, Milwaukee, WI.
- Rassu, F.S., Luedke, J.C., Turney, J., **Mathur, V.A.**, Meagher, M.W. (2019). *Enhanced suprathreshold heat pain sensitivity in healthy Hispanic relative to non-Hispanic White adults: A preliminary examination*. Annual Scientific Meeting of the American Pain Society, Milwaukee, WI.
- Ng, B.W., Nanavaty, N., **Mathur, V.A.** (2019). *How bad does my pain have to be?: Intergroup differences in the motivation to seek medical care*. 20<sup>th</sup> Annual Meeting of the Society for Personality and Social Psychology, Portland, OR.
- Kim, H., Nanavaty, N., **Mathur, V.A.**, Anderson, B.A. (2018). *Neural correlates of attentional bias following aversive conditioning: Evidence for valence-independent mechanisms of priority*. The Object Perception, Attention, and Memory (OPAM) conference, New Orleans, LA.
- Carter, J.E., Nanavaty, N., Hernandez, B., Ng, B., **Mathur, V. A.**, Carter-Sowell, A.R. (2018). *Developing a therapy model to improve pathways to the professoriate for underrepresented minority (URM) identified graduate students in STEM fields*. Alliance for Graduate Education and the Professoriate (AGEP) National Research Conference, Berkeley, CA.

- Ng, B.W., Cline, M.B., Hayes, J.E., **Mathur, V.A.** (2018). *How much pain do you really feel? Intergroup differences in pain perception among Hispanic/Latinx Americans and White Americans.* American Pain Society Scientific Summit, Anaheim, CA.
- Kim, H., Nanavaty, N., **Mathur, V.A.**, Anderson, B.A. (2018). *Neural mechanisms of attentional bias following aversive conditioning.* Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL.
- Mathur, V.A.**, Peoples, S., Nair, M., Nanavaty, N. (2018). *Gender differences in the relationship between subjective socioeconomic status and laboratory pain.* American Pain Society Scientific Summit, Anaheim, CA.
- Nanavaty, N., Bannwart, L., **Mathur, V.A.** (2018). *Behavioral threat-avoidance is associated lower heat-pain thresholds in healthy volunteers.* American Pain Society Scientific Summit, Anaheim, CA.
- Adams, M., Nair, M., Carter, J., Haley, M., Nanavaty, N., Carter-Sowell, A., **Mathur, V.A.** (2017). *Lifetime experiences of ostracism are associated with psychophysical pain facilitation.* 18<sup>th</sup> Annual Meeting of the Society for Personality and Social Psychology, San Antonio, TX.
- Carter, J., Nair, M., Adams, M., Carter-Sowell, A., **Mathur, V.A.** (2017). *Threat-based discrimination is associated with temporal summation of mechanical pain.* 18<sup>th</sup> Annual Meeting of the Society for Personality and Social Psychology, San Antonio, TX.
- Speed, T.J., **Mathur, V.A.**, Christensen, B., Williams, K., Sponseller, P., Campbell, C.M. (2016). *Characterization of Pain, Disability, and Psychological Burden in Marfan Syndrome.* 35<sup>th</sup> Annual Scientific Meeting of the American Pain Society, Austin, TX.
- Mathur, V.A.**, Burrowes, S.A.B., Keaser, M.L., Khan, S.A., Goyal, M., Seminowicz, D.A. (2015). *Changes in pain-related brain activity following a mindfulness meditation intervention in chronic migraine are associated with reduced anxiety.* Pain Imaging and Perception, 45<sup>th</sup> Annual Meeting of the Society for Neuroscience, Chicago, IL.
- Mathur, V.A.**, Boyd, E.L., Quiton, R.L. (2015). *Optimism is associated with decreased bilateral anterior insula activity during a conditioned pain modulation paradigm.* 34<sup>th</sup> Annual Scientific Meeting of the American Pain Society, Palm Springs, CA.
- Mathur, V.A.**, Haywood Jr., C., Bediako, S., Edwards, R.R., Campbell, C.M., Haythornthwaite, J.A. (2014). *Discrimination in health care settings is associated with greater clinical and laboratory pain in sickle cell disease.* 33<sup>rd</sup> Annual Scientific Meeting of the American Pain Society, Tampa, FL.
- Mathur, V.A.**, Bond, K., Carroll, C.P., Finan, P., Edwards, R.R., Haythornthwaite, J.A., Campbell, C.M. (2014). *Situational, dispositional and disease-specific catastrophizing in sickle cell disease.* 33<sup>rd</sup> Annual Scientific Meeting of the American Pain Society, Tampa, FL.
- Campbell, C.M., Tompkins, D.A., **Mathur, V.A.**, Schoeck, O., McCauley, L., Swedberg, L., Edwards, R.R., Smith, M., Haythornthwaite, J.A. (2014). *Ethnic differences in Interleukin 6 and Neuropeptide Y response to capsaicin in healthy participants.* 33<sup>rd</sup> Annual Scientific Meeting of the American Pain Society, Tampa, FL.
- Bediako, S., **Mathur, V.A.**, Haythornthwaite, J.A., Campbell, C.M. (2014). *Ethnic identity attitudes and pain sensitivity in sickle cell disease.* 33<sup>rd</sup> Annual Scientific Meeting of the American Pain Society, Tampa, FL.
- Carroll, C.P., Campbell, C.M., Finan, P., **Mathur, V.A.**, Edwards, R.R., Lanzkron, S., Haythornthwaite, J.A. (2014). *Recent opioid use is specifically associated with greater thermal temporal summation in sickle cell disease patients.* 33<sup>rd</sup> Annual Scientific Meeting of the American Pain Society, Tampa, FL.
- Mathur, V.A.** & Paice, J. (2013). *Racial differences in neural response to the acute pain of other people.* 32<sup>nd</sup> Annual Scientific Meeting of the American Pain Society, New Orleans, LA.
- Mathur, V.A.**, Paice, J., Chiao, J.Y. (2012). *Differential racial biases in pain perception and empathy when utilizing explicit versus implicit measures.* 14<sup>th</sup> World Congress on Pain, Milan, Italy.
- Mathur, V.A.**, Paice, J., Chiao, J.Y. (2012). *Independent effects of perceiver race on pain perception and empathy.* 31<sup>st</sup> Annual Scientific Meeting of the American Pain Society, Honolulu, HI.
- Mathur, V.A.**, Harada, T., Chiao, J.Y. (2011). *Racial identification modulates default network activity for same- and other-races.* 18<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.



- Mathur, V.A.**, Paice, J., Chiao, J.Y. (2011). *Racial prejudice predicts an own-race bias in pain perception*. 12th Annual Meeting of the Society for Personality and Social Psychology, San Antonio, TX.
- Mathur, V.A.**, Harada, T., Chiao, J.Y. (2010). *Ethnic identification associated with default network activity when perceiving ethnic in-group members*. 4th Annual Social and Affective Neuroscience Conference, Chicago, IL.
- Mathur, V.A.**, Paice, J., Chiao, J.Y. (2010). *Race affects sensitivity to the pain of other people*. 33rd Annual Scientific Meeting of the Midwest Pain Society, Chicago, IL.
- Mathur, V.A.**, Paice, J., Chiao, J.Y. (2010). *The effects of implicit racial priming on the relationship between trust and empathy for pain*. 29th Annual Scientific Meeting of the American Pain Society, Baltimore, MD.
- Mathur, V.A.**, Harada, T., Cheon, B.K., Scimeca, J., & Chiao, J.Y. (2009). *Empathic neural response to living things as a function of agency and experience*. 16th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Mathur, V.A.**, Green, E.A., Chiao, J.Y. (2009). *The influence of religious beliefs on empathy*. 10th Annual Meeting of the Society for Personality and Social Psychology, Psychology of Religion & Spirituality Preconference, Tampa, FL.
- Cheon, B.K., Im, D., Harada, T., **Mathur, V.A.**, Scimeca, J., Park, H., Chiao, J.Y. (2009). *Universal and culturally specific neural basis of ingroup bias in empathy*. 16th Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Cheon, B.K., Im, D., Harada, T., Kim, J., **Mathur, V.A.**, Scimeca, J., Park, H., Chiao, J.Y. (2009). *Cultural variation in empathic neural response to ingroup and outgroup members*. 10th Annual Meeting of the Society for Personality and Social Psychology, Culture Preconference, Tampa, FL.
- Mathur, V.A.**, Harada, T., Lipke, T., Chiao, J.Y. (2008). *Anterior cingulate cortex activation predicts degree of same-race bias in empathic response to perceived pain*. 2nd Annual Social & Affective Neuroscience Conference, Boston, MA.
- Wojcik, M., Miller, K.K., Lawson, E.A., Meenaghan, E., **Mathur, V.**, Rosenblum, L., Misra, M., Herzog, D., Klibanski, A. (2008). *Protective effects of prior obesity on bone mass in anorexia nervosa*. 90th Annual Meeting of the Endocrine Society, San Francisco, CA.
- Lawson, E.A., Miller, K.K., **Mathur, V.A.**, Lee E.E., Misra, M., Grinspoon, S., Herzog, D.B., Klibanski, A. (2006). *Cardiovascular risk markers in anorexia nervosa*. 88th Annual Meeting of the Endocrine Society, Boston, MA.

## INVITED TALKS

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- Cultural conceptions of women's labor pain* (March 26, 2019). Co-author with Theresa Morris. Research on Women Symposium. Texas A&M, College Station, TX.
- Combating multiple levels of suffering: Sociocultural and social neuroscientific approaches to pain disparities* (February 15, 2018). Diversity Science: Emerging Perspectives in Psychology conference, University of Arkansas, Fayetteville, AK.
- Sociocultural modulation of neurobiological pain and empathic processes*. (September 26, 2014). Transdisciplinary symposium. University of Colorado-Denver, Denver, CO.
- Effects of migraine on the brain*. (February 7, 2014). Blaustein Multidisciplinary Pain Conference, Johns Hopkins Hospital, Baltimore, MD.
- Sociodemographic differences in pain*. (March 22, 2013). Blaustein Multidisciplinary Pain Conference, Johns Hopkins Hospital, Baltimore, MD.

*Culturally-shared and culturally-specific influences on the neural basis of intergroup empathy for emotional pain.* (April 16, 2011). Center for Culture, Mind, and the Brain Annual Conference, Ann Arbor, MI.

## **TEACHING EXPERIENCE**

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### Instructor

- 2019 *Experimental Psychology*, PSYC 302 (x2, 9 sections), Texas A&M University
- 2018 *Health Psychology and Behavioral Medicine*, PSYC/NRSC 360 (x2), Texas A&M University  
*Experimental Psychology*, PSYC 302 (5 sections), Texas A&M University  
*Directed Studies*, PSYC 485, NRSC 485, PSYC 691, Texas A&M University
- 2017 *Experimental Psychology*, PSYC 204/302 (x2, 8 sections), Texas A&M University  
*Directed Studies*, PSYC 485, PSYC 491, NRSC 485, PSYC 691, Texas A&M University
- 2016 *Health Psychology and Behavioral Medicine*, PSYC/NRSC 360, Texas A&M University  
*Special Topics: Health Psychology of Disparities*, PSYC 689, Texas A&M University  
*Directed Studies*, PSYC 485, PSYC Honors 485, PSYC 491, NRSC 485, Texas A&M University
- 2011 *Research Methods*, Northwestern University
- 2010 *Health Psychology*, Northwestern University

### Teaching Assistant

- 2011 *Psychology of Gender*, Northwestern University
- 2010 *Statistical Methods*, Northwestern University
- 2009 *Research Methods*, Northwestern University  
*Cultural Psychology*, Northwestern University
- 2008 *Psychology of Personality*, Northwestern University  
*Introduction to Schools of Psychotherapy*, Northwestern University

### Discussion Leader

- 2010 *Mentoring*, Searle Center for Teaching Excellence, Northwestern University

### Guest Lecturer

- 2018 *Social Neuroscience of Intergroup Empathy*, Advanced Seminar in Social Neuroscience, University of Arkansas
- 2018 *Pain*, Principles of Neuroscience II, NRSC 602, Texas A&M University
- 2016 *An interdisciplinary approach to pain disparities*, First Year Graduate Seminar, Texas A&M University
- 2014 *Social neuroscience of pain*, Topics in Behavioral Medicine Graduate Seminar, University of Maryland, Baltimore County
- 2008 *The neural substrates of empathy*, Introduction to Schools of Psychotherapy, Northwestern University

## **TEACHING TRAINING AND CERTIFICATIONS**

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- 2012 Graduate Teaching Certificate, *Northwestern University Searle Center for Teaching Excellence (Certificate Program: Sept. 2009 – June 2012)*
- 2010 Certificate in the Teaching of Psychology, *Northwestern University, Psychology Department (Certificate Program: Sept. 2009 – June 2010)*
- 2010 Preparing for Classes that Aren't Your Specialty, *Northwestern University Searle Center for Teaching Excellence*
- 2009 Making the Most of Mentoring, *Northwestern University Searle Center for Teaching Excellence*
- 2009 Working with Student Writing, *Northwestern University Searle Center for Teaching Excellence*
- 2007 Teaching Assistant Conference, *Northwestern University Searle Center for Teaching Excellence*

## **MENTORING**

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### Postdoctoral Fellows

Brandon Ng, PhD – 2017-19

\*Connaught Summer Institute in Pain acceptance and scholarship - 2019

### Graduate Trainees

#### *Current Primary Advisor/Chair*

Brandon Boring, MS – Texas A&M University (Social & Personality Psychology)

\*American Pain Society Young Investigator Travel Award – 2019

Namrata Nanavaty, MS – Texas A&M University (Clinical Psychology)

\*National Science Foundation Graduate Research Fellowship Program (NSF GRFP) Fellow – 2017-2020

\*Texas A&M University Graduate Diversity Fellowship in Psychology – 2016-2021

\*American Pain Society Young Investigator Travel Award – 2018

\*Distinguished Research Poster, 25<sup>th</sup> Annual ARMADILLO Cognition & Cognitive Neuroscience Southwest Regional Conference at Texas A&M – 2017

\*Lechner Scholar, Lechner Graduate Grant, College of Liberal Arts, Texas A&M University – 2016

Kaitlyn Walsh, BS – Texas A&M University (Social & Personality Psychology)

#### *Committee Member*

##### *Current:*

Fenan Rassu – Texas A&M University (Clinical Psychology)

\*APA Division 12 Student Research Award – 2019

Hua-qing Wang – Texas A&M University (Urban and Regional Sciences)

Kyle Dickey – Texas A&M University (Social Psychology & Personality Psychology)

Megan Nguyen – Texas A&M University (Educational Psychology, Learning Sciences)

##### *Graduates:*

Hans Linsenhardt, PhD – Texas A&M University (Neuroscience) – 2018

David Clark, PhD – Texas A&M University (Social & Personality Psychology) – 2018

Carla Zimmerman, PhD – Texas A&M University (Social Psychology & Personality Psychology) – 2017

Matthew Nye, MS – Texas A&M University (Neuroscience) – 2016

#### *Non-committee Advisor:*

Jane Carter – Texas A&M University (Clinical Psychology)

Eryka Boyd, PhD – University of Maryland, Baltimore County (Clinical Psychology)

Hanggi Lee, RN, MPH – Texas A&M University (Public Health, Epidemiology)

### Undergraduate and Postgraduate Trainees

#### *Texas A&M University*

Priscilla Abraham (2019-Present)

Claire Anderson (2019)

Marguerite Anderson (2017-Present)

\*Poster presentation at Student Research Week & \*11<sup>th</sup> Annual TAMIN Symposium

George, N., Anderson, M., Nanavaty, N., Boring, B., Mathur, V. A. (2019). *Examining the link between discrimination and pain physiology.*

Madison Aycok (2019-Present)

Grant Barkelew (2019-Present)

Montae Bermudez (2019-Present)

Chase Bruckner (2019-Present)  
 Kaylee Buchanan (2019-Present)  
 Alida Demeter (2019-Present)  
 Xochitl Fuentes (2019-Present)  
 Paul Forks (2019-Present)  
 Jonathan Glenn (2019-Present)  
 Travis Hyatt (2018-Present)  
 Karen Kaur (2019-Present)  
 Catherine Kuykendall (2019-Present)  
 Taylor Medina (2019)  
 David Morgado (2019-Present)  
 Olivia Nault (2019-Present)  
 Avery Nennmann (2019-Present)  
 Jamie Nguyen (2019-Present)  
 Nathan Ramsey (2019-Present)  
 Cassidy Seale (2018-Present)  
     \*NIDA Summer Internship at the University of Washington, 2019  
 Scott Shi (2019-Present)  
 Zach Skrehot (2019-Present)  
 Sanya Varma (2018-Present)  
 Kyisha Butcher (2018-19)  
 Karina Cabrera (2018-19)  
 Leslie Chaffin (2018-19)  
 Madison Cortez (2017-19)  
 Meredith Gary (2017-19)  
 Nevita George (2017-19)  
     \*TAMIN Neuroscience Certificate  
     \*Undergraduate Research Scholar  
     \*Poster presentation at Student Research Week & \*11<sup>th</sup> Annual TAMIN Symposium  
         George, N., Anderson, M., Nanavaty, N., Boring, B., Mathur, V. A. (2019). *Examining the link between discrimination and pain physiology.*  
 Jamie Loasby (2019)  
 Ria Rao (2018-19)  
 Evelyn Stewart-Johnson (2018-19)  
 Fallon Wenck (2018-19)  
 Melinda Hale (2018)  
 Hannah Lewer (2018)  
 Matthew Cline, BS (2016-18)  
     \*Hired as part-time research assistant after graduation 2017-18  
 Sarah Peoples, BS (2016-18)  
     \*Undergraduate co-author on a poster presented at a national conference  
     \*Hired as full time study coordinator 2018 (Jan-Sept)  
 Darby Salge (2018)  
 Humza Ahmed, BS (2016-2018)  
     currently Neuroimaging Analyst at the Vanderbilt Memory & Alzheimer's Center  
 Jordan Hayes (2017-18)  
 Megan Marsico (2017-18)  
 Breanna Hernandez (2017-2018)  
     \*First-authored poster presentation at Student Research Week, 2018  
         Hernandez, B., Carter, J.E., Nanavaty, N., Ng, B., Mathur, V. A., Carter-Sowell, A.R. (2018).  
         *More evidence for the pain overlap theory: Is social pain associated with heightened sensitivity to physical pain?*  
 James Connor Price (2017)  
 Rahul Sirigiri (2016-17)

Lane Bannwart (2016-17)

\*Undergraduate co-author on a poster presented at a national conference

Mollie Adams (2015-17)

\*Undergraduate co-author on two abstracts presented as posters at a national conference,

\*Undergraduate poster presenter at a national conference

\*George Bush Presidential Library Foundation Undergraduate Student Travel Grant  
currently, MSN (nursing) student specializing in Leadership in Diverse Settings, University of  
Texas

Magdalena Banda (2016)

\*APA Summer Undergraduate Research Opportunity Program at Texas A&M University

\*University of Michigan Public Health Scholar

\*CDC Undergraduate Scholar

Meron Haley (2016)

Worked on a collaboration between the Mathur and Carter-Sowell labs

Mitra Nair (2015-16)

\*Undergraduate co-author on two abstracts presented as posters at a national conference  
currently Graduate Research Assistant, Department of Neurosurgery, UT Health Science Center,  
Houston

Jennifer Van Horn (2016)

#### *Northwestern University (2007-2012)*

Michael Muzyka (2011-12)

\*Winner of University of Michigan Biological Station REU summer research grant,

\*Undergraduate co-author on *Journal of Pain* publication,

currently PhD student in Biological Sciences and Notebaert Fellow at the University of Notre Dame

Warda Saeed (2011-12)

currently Clinical Research Coordinator Alexian Brothers Health System

#### *Massachusetts General Hospital (2005-2007)*

Noah Merhar (2007)

\*Winner of Matina Horner Fellowship,

currently New England College of Optometry Resident

Thomas Dohlman, MD (2006-07)

currently New York Presbyterian Hospital/Weill Cornell Medical College Resident

Monica Wojcik, MD (2005-07)

\*Winner of Matina Horner Fellowship,

\*Winner of GCRC Research Fellowship,

currently Boston Children's Hospital Resident

Melissa Goldin (2006)

currently Board of Regents Fellow & PhD Student at Louisiana State University Health Sciences  
Center

Alexis Malcom, FNP-BC (2005)

currently Nurse Practitioner at Mill City Medical Group

#### High School Student

Ranait O'Connor (2007-09), Illinois Math and Science High School Academy (IMSA), BAsC in  
Community Health at the University of Illinois at Urbana-Champaign, currently Business Analyst  
at AIM Specialty Health

#### Mentoring Programs

APA Summer Undergraduate Research Opportunity Program at Texas A&M University, 2016

Northwestern University Psychology Resources and Information Supporting Minorities (PRISM), 2011

## PROFESSIONAL SERVICE

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### National

#### *US Based Pain Research Organization (new)*

2019 Organizing/planning committee, representative for pain disparities research

#### *American Pain Society (APS)*

2019 Committee Member & Reviewer, Future Leaders in Pain Research Grants  
2017-2019 Chair, Pain and Disparities Shared Interest Group (SIG)  
2017-2019 Judge, Early Career Poster Award  
2014-2019 Board Member, Early Career Advisory Group  
2017-2018 Liason, Early Career Advisory Group representative to the SIG Chairs Committee  
2016-2017 Vice Chair, Pain and Disparities SIG  
2012-2016 Secretary, Pain and Disparities SIG  
2015 Consultant, American Pain Society Early Career Forum Planning Committee

#### *Society for Personality and Social Psychology (SPSP)*

2011 Reviewer, Student Poster Awards

### University

#### *Texas A&M Division of Research*

2017 Reviewer, PESCA Grant

#### *Texas A&M Excellence Uniting Culture, Education, and Leadership (ExCEL) Student Success Program*

2018 Speaker, New student workshop on Biopsychosocial Health

#### *Texas A&M University Institute for Neuroscience (TAMIN)*

2018 Diversity Fellowship Nominator, Graduate Recruiting Committee  
2016-2018 Member, Graduate Recruiting Committee  
2016, 2017 Judge, TAMIN Society for Neuroscience (SfN) Chapter Poster Session

### Departmental

#### *Texas A&M University, Department of Psychological and Brain Sciences*

2017-20 Member, Diversity & Inclusion Committee  
2019 Member, Faculty Search Committee  
2019 Member, Subcommittee on departmental human subjects and payment procedures  
2017 Development of lab space recommendations, human subjects research representative  
2016 Member, Spinal Cord Faculty Search, Psychology Subcommittee  
2016 Member, Search Committee (R. Smith lab, research technician)  
2015 Member, Diversity Sciences Faculty Search Committee

#### *Northwestern University*

2010-11 Panelist, New Psychology TA Workshop  
2008-09 Co-organizer, Neuroeconomics Journal Club  
2008 Organizer, Social, Cultural and Affective Neuroscience Journal Club

### Grant Reviewer

2018 NIH Special Emphasis Panel/Scientific Review Group 2018/08 ZRG1 ETTN-U (81) S, Pain Research and Management, May 17  
2017 Texas A&M Division of Research, PESCA Grant applications  
2016 Sam Houston State University Office of Research and Sponsored Programs, external reviewer for internal research grant (Enhancing Research Grant)

### Ad Hoc Reviewer

*Annals of Behavioral Medicine*  
*Biological Psychology*  
*Brain Research*  
*Cultural Diversity & Ethnic Minority Psychology*  
*Current Biology*  
*Ethnicity & Health*  
*Human Brain Mapping*  
*Journal of Applied Biobehavioral Research*  
*Journal of Behavioral Medicine*  
*Journal of Cognitive Neuroscience*  
*Journal of Cross-Cultural Psychology*  
*Journal of Experimental Psychology: General*  
*Journal of Pain*

*Journal of Personality and Social Psychology (JPSP)*  
*Neuroimage*  
*Neuropsychology*  
*PAIN*  
*Pain Medicine*  
*PLOS One*  
*Proceedings of the National Academy of Sciences (PNAS)*  
*Progress in Brain Research*  
*Psychological Science*  
*Social Cognitive & Affective Neuroscience (SCAN)*  
*Social Service Review*  
*Social Psychological and Personality Science (SPPS)*

### Membership in Professional Societies

Association for Psychological Science  
Cognitive Neuroscience Society  
International Association for the Study of Pain  
Social and Affective Neuroscience Society  
Society for Personality and Social Psychology  
Society for Neuroscience  
Society for Social Neuroscience