

Curriculum Vitae

## Brandon Boring

Department of Psychological Sciences  
Kent State University  
Kent, Ohio  
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### Academic Appointments

2024 Post-Doctoral Scholar, Kent State University, Kent, OH  
PIs: Karin Coifman, Ph.D.; John Gunstad, Ph.D.

### Education

2024 Ph.D., Texas A&M University, College Station, TX  
Social and Personality Psychology  
Dissertation – *Shame as an affective component of pain experiences*

2016 M.A., Towson University, Towson, MD  
Experimental Psychology  
Thesis – *The emotion of guilt as a motivator: Can transgressors overcome ego-depletion to help their victims?*

2006 B.A., McDaniel College, Westminster, MD  
Dual Major in Biochemistry (Biology/Chemistry)

### Grants, Honors, and Awards

#### Honors and Awards

2024 PBSI Excellence in Research Award – Texas A&M University

2024 Graduate Student Research Achievement Award – Department Nominee, Texas A&M University

2023 U.S. Senator Phil Gramm Doctoral Fellowship Award (\$5000) – Texas A&M University  
-Awarded to outstanding current doctoral students whose excellence in both research and teaching exemplifies the meaning of scholarship and mentorship in the highest sense.

2023 G.F. Gebhart *Journal of Pain* Young Investigator Award (Runner-Up) – United States Association for the Study of Pain (USASP)  
-Recognizes individuals who demonstrate research excellence and considerable promise of future contributions in the field of pain.

2023 Trainee Spotlight (January) – United States Association for the Study of Pain

2022 CLLA Summer Dissertation Fellowship Award (\$7000) – Texas A&M University

#### Grants

2021 College of Liberal Arts Summer Research Grant (\$1,998) – Texas A&M University

*-Experiences of Pregnancy Pain Invalidation*

2005 Undergraduate Research Grant (\$800) – McDaniel College

Travel

2024 Graduate Student Travel Award (\$575) – Texas A&M University  
2023 1<sup>st</sup> Annual PURPOSE Meeting Travel Award (\$850) – NIH HEAL Initiative, PURPOSE  
(Positively Uniting Researchers of Pain to Opine, Synthesize, & Engage)  
2023 Graduate Student Travel Award (\$575) – Texas A&M University  
2022 Young Investigator Travel Award (\$450) – USASP Scientific Meeting  
2022 Graduate Student Travel Award (\$475) – Texas A&M University  
2021 Graduate Student Travel Award (\$500) – Society for Personality and Social Psychology  
(SPSP) Annual Convention  
2020 Graduate Student Travel Award (\$475) – Texas A&M University  
2019 Graduate Student Travel Award (\$600) – Texas A&M University  
2018 Young Investigator Travel Award (\$750) – American Pain Society  
2017 Young Investigator Travel Award (\$750) – American Pain Society  
2016 Graduate Student Association Travel Grant (\$500) – Towson University

Publications

† Indicates Co-First Authorship

\* Indicates undergraduate mentee

13. **Boring, B.L.**, Walsh, K.T., Ng, B., Schlegel, R.J., & Mathur, V.A. (2024). Experiencing pain invalidation is associated with under-reporting of pain: A social psychological perspective on pain communication. *Journal of Pain*, 25(5), 104428. doi: 10.1016/j.jpain.2023.11.011  
[Impact factor: 5.383]
12. Nanavaty, N., Walsh, K.T., **Boring, B.L.**, Ganesan, A., Carter-Sowell, A., & Mathur, V.A. (2023). Acute ostracism-related pain sensitization is enhanced in the context of accumulated lifetime experiences of ostracism. *Journal of Pain*, 24(7), 1229-1239. doi: 10.1016/j.jpain.2023.02.021  
[Impact factor: 5.383]
11. **Boring, B.L.**, \*Richter, A., & Mathur, V.A. (2023). Higher self-perceived stress reactivity is associated with increased chronic pain risk. *Pain Reports*, 8(2), e1068. doi: 10.1097/PR9.0000000000001068  
[Impact factor: 2.914]
10. Walsh, K.T., **Boring, B.L.**, Nanavaty, N., Carter-Sowell, A., & Mathur, V.A. (2022). Lifetime ostracism experiences and mechanisms of pain. *Frontiers in Pain Research*, 3, 1037472. doi: 10.3389/fpain.2022.1037472.  
[Impact factor: 4.232]
9. Walsh, K.T., **Boring, B.L.**, Nanavaty, N., Guzman, H., & Mathur, V.A. (2022). Sociocultural context and pre-clinical pain facilitation: Multiple dimensions of racialized discrimination experienced by Latinx Americans are associated with temporal summation of pain. *Journal of Pain*, 23(10), 1779-1789. doi: 10.1016/j.jpain.2022.06.004  
[Impact factor: 5.383]

8. **Boring, B.L.**, Ng, B., Nanavaty, N., & Mathur, V.A. (2022). Over-rating pain is overrated: A fundamental self-other bias in pain reporting behavior. *Journal of Pain*, 23(11), 1885-1893. doi: 10.1016/j.jpain.2022.06.002  
[Impact factor: 5.383]
7. **Boring, B.L.**, Maffly-Kipp, J., Mathur, V.A., & Hicks, J.A. (2022). Meaning in life and pain: The differential effects of coherence, purpose, and mattering on pain severity, frequency, and the development of chronic pain. *Journal of Pain Research*, 15, 299-314. doi: 10.2147/JPR.S338691  
[Impact factor: 2.832]
6. †Guthrie, D., †**Boring, B.L.**, Maffly-Kipp, J., Mathur, V.A., & Hicks, J.A. (2022). The experience of meaning in life in the context of pain-related disability. In M.L. Wehmeyer & D. Dunn (Eds.), *Understanding disability: The positive psychology of personal factors*. Lexington Books.
5. **Boring, B.L.**, Walsh, K.T., Nanavaty, N., & Mathur, V.A. (2021). Shame mediates the relationship between pain invalidation and depression. *Frontiers in Psychology*, 12, 743584. doi: 10.3389/fpsyg.2021.743584  
[Impact factor: 4.232]
4. **Boring, B.L.**, Walsh, K.T., Nanavaty, N., Ng, B.W., & Mathur, V.A. (2021). How and why patient concerns influence pain reporting: A qualitative analysis of personal accounts and perceptions of others' use of numerical pain scales. *Frontiers in Psychology*, 12, 663890. doi: 10.3389/fpsyg.2021.663890  
[Impact factor: 4.232]
3. Letzen, J.E., Mun, C.J., Kuwabara, H., Burton, E.F., **Boring, B.L.**, Walls, T., Speed, T.J., Wong, D.F., & Campbell, C.M. (2020). Ethnic disparities in pain processing among healthy adults:  $\mu$ -opioid receptor binding potential as a putative mechanism. *Pain*, 161(4), 810-820. doi: 10.1097/j.pain.0000000000001759  
[Impact factor: 7.926]
2. Buckingham, J.T., Yamkovenko, B., **Boring, B.L.**, Andrade, F.C., & Iafolla, C. (2019). The Relationship Evaluation Process scale: A multidimensional measure of how people assess the quality of their romantic relationships. *Journal of Social and Personal Relationships*, 36(11-12), 3673-3694. doi: 10.1177/0265407519833798  
[Impact factor: 2.681]
1. Buckingham, J.T., Lam, T.A., Andrade, F.C., **Boring, B.L.**, & Emery, D. (2019). Reducing contingent self-worth: A defensive response to self-threats. *The Journal of Social Psychology*, 159(3), 284-298. doi: 10.1080/00224545.2018.1461604  
[Impact factor: 2.768]

### **Manuscripts – Revise and Resubmit**

**Boring, B.L.**, & Mathur, V.A. Gender discrimination experienced by women is associated with greater chronic pain interference. (*Journal of Pain*).

## **Manuscripts Under Review**

**Boring, B.L.**, Nanavaty, N., Hicks, J.A., Geraci, L., & Mathur, V.A. Subjective age is associated with pain frequency, interference, and severity: Findings from acute, chronic, and laboratory pain experiences.

## **Manuscripts In Preparation**

Mathur, V.A., **Boring, B.L.**, & Walsh, K.T. Experience and prevalence of pregnancy pain invalidation. (Final edits before submission).

**Boring, B.L.**, & Schlegel, R.J. Who am I if you don't support how I feel? Emotional invalidation predicts reduced feelings of authenticity. (Second working draft).

## **Selected Talks and Presentations**

\*Indicates undergraduate mentee

**Boring, B.L.**, \*Richter, A., & Mathur, V.A. (2022). *Higher self-perceived stress reactivity is associated with increased odds for the development of chronic pain*. Abstract selected for talk given at the Data Blitz for the Psychosocial Factors and Interventions SIG at the United States Association for the Study of Pain's Annual Scientific Meeting, Cincinnati, OH.

**Boring, B.L.**, Nanavaty, N., Walsh, K.T., Guzman, H., & Mathur, V.A. (2021). *Shame mediates the relationship between pain invalidation and depression*. Abstract selected for talk given at the Society for Personality and Social Psychology's Annual Convention Health Preconference Data Blitz, Virtual Meeting.

Walsh, K.T., **Boring, B.L.**, Nanavaty, N., Guzman, H., & Mathur, V.A. (2021). *The weight of invalidation: Experiences of pain invalidation from family and friends predicts internalized weight stigma*. Abstract selected for talk given at the Society for Personality and Social Psychology's Annual Convention Health Preconference Data Blitz, Virtual Meeting.

## **Media Coverage**

Elster, N. (2023, April 16). *How an objective measure of pain could counter bias in medicine*. British Broadcasting Corporation. <https://www.bbc.com/future/article/20230414-the-search-for-an-objective-measure-of-pain>

Kara-Yakoubian, M. (2022, July 29). *Psychologists uncover evidence of a fundamental pain bias*. PsyPost. <https://www.psypost.org/2022/07/psychologists-uncover-evidence-of-a-fundamental-pain-bias-63613>

Ellwood, B. (2022, February 23). *Having your pain invalidated is associated with increased shame and, in turn, an increased risk of depression*. PsyPost. <https://www.psypost.org/2022/02/having-your-pain-invalidated-is-associated-with-increased-shame-and-in-turn-an-increased-risk-of-depression-62626>

## **Poster Presentations**

\* Indicates undergraduate mentee

- Boring, B.L.,** & Schlegel, R.J. (2024). *People feel less authentic on days they have their emotions invalidated by others: Findings from ecological momentary assessment*. Poster presented at the Society for Personality and Social Psychology's Annual Convention, San Diego, CA.
- Boring, B.L.,** & Mathur, V.A. (2023). *Daily fluctuations in feelings of state shame are associated with greater daily pain severity and interference*. Poster presented at the United States Association for the Study of Pain's Annual Scientific Meeting, Durham, NC.
- Boring, B.L.,** \*Richter, A., & Mathur, V.A. (2022). *Higher self-perceived stress reactivity is associated with increased odds for the development of chronic pain*. Poster presented at the United States Association for the Study of Pain's Annual Scientific Meeting, Cincinnati, OH.
- Boring, B.L.,** & Schlegel, R.J. (2022). *Experiencing invalidation is associated with reduced authenticity*. Poster presented at the Society for Personality and Social Psychology's Annual Convention, San Francisco, CA.
- Boring, B.L.,** Walsh, K.T., Ng, B., & Mathur V.A. (2022). *Experiencing pain invalidation is associated with underreporting of pain by emerging adults in clinical settings*. Poster presented at the Health Preconference at the Society for Personality and Social Psychology's Annual Convention, San Francisco, CA.
- \*Skrehot, Z.J., **Boring, B.L.,** & Mathur, V.A. (2021). *Independent but not interdependent self-construal is associated with an increased risk for the development of chronic pain*. Poster presented at Texas A&M University's Student Research Week, Virtual Meeting. Winner of the Glasscock Humanities Award.
- Boring, B.L.,** Nanavaty, N., Walsh, K.T., & Mathur, V.A. (2021). *Optimism is associated with lower pain interference among people with chronic pain*. Poster presented at the Society for Personality and Social Psychology's Annual Convention, Virtual Meeting.
- Boring, B.L.,** Nanavaty, N., Walsh, K.T., & Mathur, V.A. (2021). *Purpose in life is associated with a decreased risk of the development of chronic pain*. Poster accepted to be presented at the conference for the International Association for the Study of Pain, Amsterdam, Netherlands (postponed due to COVID-19).
- Nanavaty, N., **Boring, B.L.,** Walsh, K.T., & Mathur, V.A. (2021). *Racial segregation in schools is associated with greater pain*. Poster accepted to be presented at the conference for the International Association for the Study of Pain, Amsterdam, Netherlands (postponed due to COVID-19).
- Boring, B.L.,** Nanavaty, N., Walsh, K.T., Guzman, H., & Mathur, V.A. (2020). *Daily, but not lifetime discrimination is associated with greater pain interference in those with chronic pain*. Poster presented at the United States Association for the Study of Pain's Annual Meeting, Virtual Meeting.
- Walsh, K.T., Nanavaty, N., **Boring, B.L.,** & Mathur, V.A. (2020). *Discrimination experienced by Latinx American college students is associated with enhanced temporal summation of pain*. Poster to be

presented at the Society for Personality and Social Psychology's Annual Convention, Virtual Meeting.

- Boring, B.L.**, Nanavaty, N., Walsh, K.T., & Mathur, V.A. (2020). *Subjective age predicts pain interference*. Poster accepted to be presented at the conference for Next Generation Pain Therapeutics, Houston, TX (postponed due to COVID-19).
- Nanavaty, N., **Boring, B.L.**, Walsh, K.T., & Mathur, V.A. (2020). *Facets of discrimination and laboratory pain*. Poster accepted to be presented at the conference for Next Generation Pain Therapeutics, Houston, TX (postponed due to COVID-19).
- Walsh, K. T., Nanavaty, N., **Boring, B.L.**, & Mathur, V.A. (2020). *Experiences of ostracism and pain sensitivity: A mini meta-analysis*. Poster accepted to be presented at the conference for Next Generation Pain Therapeutics, Houston, TX (postponed due to COVID-19).
- Boring, B.L.**, Nanavaty, N., Walsh, K.T., & Mathur, V.A. (2020). *Social support quality predicts the experience of subclinical back pain*. Poster presented at the Society for Personality and Social Psychology's Annual Convention, New Orleans, LA.
- Boring, B.L.**, Nanavaty, N., & Mathur, V.A. (2019) *Subjective age is associated with temporal summation of mechanical pain*. Poster presented at the American Pain Society Scientific Meeting, Milwaukee, WI.
- Nanavaty, N., **Boring, B.L.**, & Mathur, V.A. (2019) *Disparities in laboratory pain amongst Latinx- and White-Americans*. Poster presented at the American Pain Society Scientific Meeting, Milwaukee, WI.
- Letzen, J. E., Chung, J.M., Hiroto, K., Burton, E., **Boring, B.L.**, Walls, T., Speed, T.J., Wong, D.F., & Campbell, C.M. (2019)  *$\mu$ -opioid receptor binding potential is higher among non-Hispanic Black compared to non-Hispanic White adults*. Poster presented at the American Pain Society Scientific Meeting, Milwaukee, WI.
- \*George, N., \*Anderson, M., Nanavaty, N., **Boring, B.L.**, & Mathur, V.A. (2019). *Examining the link between discrimination and pain physiology*. Poster presented at Texas A&M University's Student Research Week, College Station, TX.
- Boring, B.L.**, Burton, E.F., Walls, T., Whitman, C.A., & Campbell, C.M. (2018). *Order of heat and pressure tests impacts pain responsivity ratings*. Poster presented at the American Pain Society Scientific Summit, Anaheim, California.
- Seyboth, H., Muniz, L., Miller, J., **Boring, B.**, Buckingham, J. & McGinley, J.J. (2018). *The effects of self-affirmation on physiological reactivity*. Poster presented at Towson University's Student Research & Creative Inquiry Forum, Towson, MD.
- Myers, L., Patchan, J., **Boring, B.**, McGinley, J.J., & Buckingham, J. (2018). *The effects of self-affirmation on performance and affect*. Poster presented at Towson University's Psychology Department PGSA Conference, Towson, MD.
- Boring, B.L.** (2016). *The emotion of guilt as a motivator: Can transgressors overcome ego-depletion to help their victims?* Poster presented at the Towson University Undergraduate and Graduate Student Research Expo in Towson, Maryland.

**Boring, B.L.**, & Buckingham, J.T. (2016). *Guilt, shame, and contingencies of self-worth*. Poster presented at the Eastern Psychological Association Conference in New York, New York.

Buckingham, J.T., **Boring, B.L.**, Zilka, J., \*Colby, K.A., & Hewitt, S. (2016). *Comparing self-compassion and self-affirmation*. Poster presented at the Eastern Psychological Association Conference in New York, New York.

Buckingham, J.T., & **Boring, B.L.** (2015). *Beyond comparison: Relationship evaluation processes and satisfaction*. Poster presented at the Eastern Psychological Association Conference in Philadelphia, Pennsylvania.

### **Further Trainings**

2024 (May) Longitudinal Structural Equation Modeling (LSEM) – SMaRT Workshops  
2024 (May) Introduction to Structural Equation Modeling – SMaRT Workshops

### **Teaching and Mentorship Experience and Training**

#### ***Teaching***

2023 (Fall) **Instructor of Record** – Hullabaloo U, Texas A&M  
2023 (Fall) **Laboratory Instructor** – Research Methods Laboratory, Texas A&M  
2023 (Summer) **Instructor of Record** – Research Methods, Texas A&M  
2023 (Spring) **Laboratory Instructor** – Research Methods Laboratory, Texas A&M  
2022 (Fall) **Instructor of Record** – Introduction to Psychology, Texas A&M  
2022 (Spring) **Instructor of Record** – Introduction to Psychology, Texas A&M  
2021 (Fall) **Instructor of Record** – Introduction to Psychology, Texas A&M  
2021 (Summer) **Teaching Assistant** – Research Statistics Laboratory, Texas A&M  
2021 (Spring) **Teaching Assistant** – Research Statistics Laboratory, Texas A&M  
2020 (Fall) **Laboratory Instructor** – Research Methods Laboratory, Texas A&M  
2020 (Summer) **Teaching Assistant** – Developmental Psychology, Texas A&M  
2020 (Summer) **Teaching Assistant** – Abnormal Psychology, Texas A&M  
2020 (Spring) **Laboratory Instructor** – Research Methods Laboratory, Texas A&M  
2019 (Fall) **Laboratory Instructor** – Research Methods Laboratory, Texas A&M  
2019 (Summer) **Teaching Assistant** – Developmental Psychology, Texas A&M  
2015 (Spring) **Teaching Assistant** – Social Psychology, Towson University  
2015 (Winter) **Teaching Assistant** – Self-Concept & Self-Esteem, Towson University

#### ***Potential Course Instruction***

Introduction to Psychology  
Research Methods in Psychology  
Health Psychology  
Social Psychology  
Self and Identity  
Pain Psychology

## ***Mentorship***

2018-Present                    **Undergraduate Mentor** – Social Neuroscience of Pain Disparities Lab,  
Texas A&M University

## ***Undergraduate Mentees – Texas A&M University***

Chris Bui	Nick De Oliveira	Abdullah Cheema
Montae Bermudez	Lennon Lemay	Myriam Moreno
Katherine Jaffe	Avery Nennmann	Katie-Beth Craig
Zachary Skrehot	Alison Richter	Cassidy Seale
Donovan Taylor	Nathan Ramsey	David Morgado
Priscilla Abraham	Karen Kaur	Xochitl Fuentes
Catherine Kuykendall	Paul Forks	Alida Demeter
Sanya Varma	Travis Hyatt	Leslie Chaffin
Melinda Hale	Fallon Wenck	Madison Cortez
Nevita George	Marguerite Anderson	Meredith Gary

## ***Pedagogical Training***

2023                    **Hullabaloo U** – Seminars preparing for First Year Student Experience course,  
Texas A&M University

2023                    **Disability Across the Psychology Curriculum**  
Disability Advocacy and Research Network

2022-Present                    **An Introduction to Evidence-Based Undergraduate STEM Teaching** –  
Center for the Integration of Research, Teaching, and Learning, Texas  
A&M University

2022                    **Everyday Ableism: Unpacking Disability Bias and Stereotypes** – SEC  
Disability Coalition, Virtual Seminar

2020-2022                    **Academy for Future Faculty Fellowship Certificate** – Center for the  
Integration of Research, Teaching, and Learning, Texas A&M and NSF  
Seminars:                    Teaching Philosophy  
   Syllabus Design  
   Learning Outcomes & The Course Development Cycle  
   Culture in the Classroom  
   Student Mental Health and Fortitude  
   Universal Designs of Learning Practices  
   Instructing Non-Traditional Students

2021                    **Principles and Methods for Teaching in Psychology (PSYC 696/697)** –  
Course on pedagogy for psychology, support for Introduction to  
Psychology

2018                    **Teaching Assistant Preparation Training** – Teaching Assistant Institute,  
Center for Teaching Excellence, Texas A&M University

## **Service**

2023-2024                    **Social and Personality Psychology Area Representative** – Psychology  
Department Organization of Graduate Students, Texas A&M University,  
College Station, TX

2023                    **Reviewer** – Society for Personality and Social Psychology's Annual



2022	Convention Student Poster Award, San Diego, CA (2024) <b>Reviewer</b> – Society for Personality and Social Psychology’s Annual Convention Student Poster Award, Atlanta, GA (2023)
2021	<b>Reviewer</b> – Society for Personality and Social Psychology’s Annual Convention Graduate Student Travel Award, Atlanta, GA (2023) <b>Invited Talk</b> – Master’s in Experimental Psychology panel on Ph.D. programs, Towson University, Towson, MD, Virtual Meeting <b>Invited Talk</b> - Undergraduate Teaching Scholar’s meeting on graduate school, Texas A&M University, College Station, TX, Virtual Meeting
2020	<b>Invited Talk</b> - Undergraduate Psychology Club’s meeting on graduate school, Texas A&M University, College Station, TX, Virtual Meeting.
2019	<b>Panelist</b> – Undergraduate Psychology Club’s meeting on graduate school, Texas A&M University, College Station, TX
2015-2016	<b>Graduate Student Representative</b> – Faculty Search Committee Towson University, Towson, MD

### ***Ad Hoc Peer Review***

Annals of Behavioral Medicine  
 BMC Neurology  
 Chronic Illness  
 Clinical Journal of Pain  
 Frontiers in Pain Research  
 Frontiers in Psychiatry  
 Health Psychology  
 Heliyon  
 Journal of Aging and Health  
 Journal of Aging and Physical Activity  
 Journal of the American Geriatrics Society  
 Journal of Behavioral Medicine  
 Journal of Pain  
 Pain Medicine  
 Pain Reports  
 Psychological Trauma: Theory, Research, Practice, and Policy

### **Professional Affiliations**

American Psychological Association (APA)  
 Disability Advocacy and Research Network (DARN)  
 International Association for the Study of Pain (IASP)  
 Society for Personality and Social Psychology (SPSP)  
 United States Association for the Study of Pain (USASP)

### **Pre-Doctoral Research Experience**

2017 - 2018	<b>Research Assistant</b> – Behavioral Medicine Research Lab Department of Psychiatry and Behavioral Sciences, Johns Hopkins University, Baltimore, MD
2016 - 2017	<b>Research Assistant</b> – David A. Seminowicz (DAS) Pain Imaging Lab

Department of Neural and Pain Sciences, University of Maryland -  
Baltimore, Baltimore, MD

2014 - 2016 **Graduate Assistant** – Program Director of Experimental Psychology  
Department of Psychology, Towson University, Towson, MD

2013 - 2014 **Research Assistant** – Dr. Justin Buckingham  
Department of Psychology, Towson University, Towson, MD

2011 - 2012 **Assistant Manager** – Flow Cytometry Core Lab  
Division of Rheumatology, Johns Hopkins University, Baltimore, MD

2008 - 2012 **Laboratory Technician** – Scleroderma Center  
Division of Rheumatology, Johns Hopkins University, Baltimore, MD

2005 **Laboratory Technician** – Dr. Michael Brown Microbiology Lab  
Department of Biology, McDaniel College, Westminster, MD

### **Skills**

*Software:* SPSS, Jamovi, RStudio, MediaLab, DirectRT, Qualtrics, Medoc, E-Prime, Mendeley,  
Microsoft Office (Powerpoint, Word, Excel)

*Hardware:* Medoc Pathway, Medoc Q-Sense

*Techniques:* Quantitative Sensory Testing, Structural Equation Modeling

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### **References**

**Dr. Vani Mathur**  
Texas A&M University  
[vmathur@tamu.edu](mailto:vmathur@tamu.edu)

**Dr. Rebecca Schlegel**  
Texas A&M University  
[beccaschlegel@tamu.edu](mailto:beccaschlegel@tamu.edu)

**Dr. Joshua Hicks**  
Texas A&M University  
[joshua.hicks@tamu.edu](mailto:joshua.hicks@tamu.edu)