



*curriculum vitae*

## Jennifer K. MacCormack, Ph.D.

Assistant Professor | University of Virginia | Department of Psychology  
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[Email](#) | [Personal Website](#) | [Lab Website](#) | [Google Scholar](#) | [ORCID](#)

### Professional Appointments

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- 2022- **Assistant Professor**, Department of Psychology, University of Virginia  
*Area:* Social Psychology
- Principal Investigator**, Virginia Affect and Interoception Laboratory
- Faculty Member**, UVA Program for Fundamental Neuroscience
- Faculty Member**, UVA LIFE Academy, in conjunction with the longstanding international [LIFE Program](#) affiliated across partner universities in Berlin, Germany, Zurich, Switzerland, Ann Arbor, Michigan, and Charlottesville, Virginia.

### Education and Training

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- 2020-2022 **Postdoctoral Fellow**, Department of Psychiatry, University of Pittsburgh  
*Mentors:* Peter Gianaros, Ph.D., Anna Marsland, Ph.D., & Rebecca Reed, Ph.D.
- Postdoctoral Affiliate**, Center for the Neural Basis of Cognition  
University of Pittsburgh and Carnegie Mellon University
- 2013-2020 **Ph.D., Psychology and Neuroscience**, University of North Carolina at Chapel Hill  
Social Psychology and Neuroscience; Concentration in Quantitative Psychology  
*Mentors:* Kristen A. Lindquist, Ph.D., & Keely A. Muscatell, Ph.D.
- Dissertation:* Minding the body: The role of interoception in linking physiology and emotion during acute stress. *Committee:* Kristen A. Lindquist (Chair), Keely A. Muscatell, Kathleen M. Gates, B. Keith Payne, & Jonathan Abramowitz
- 2013-2016 **M.A., Psychology and Neuroscience**, University of North Carolina at Chapel Hill  
*Mentor:* Kristen A. Lindquist, Ph.D.
- Thesis:* Feeling hangry? When hunger is conceptualized as emotion. *Committee:* Kristen A. Lindquist (Chair), Keely A. Muscatell, B. Keith Payne, & Paschal Sheeran
- 2010-2013 **B.A., Psychology, Anthropology Minor** (summa cum laude), NC State University  
*Mentor:* Amy G. Halberstadt, Ph.D.
- Thesis:* Mothers' emotional complexity predicts children's socioemotional success

### Grants and Fellowships

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- 2024-2026 **UVA Brain Institute Pilot Grant:** *The Role of Environmental Social Determinants of Health in Care Partners of Persons with Cognitive Decline.* Consultant.

- 2023-2026 **National Science Foundation – Civil, Mechanical and Manufacturing Innovation (CMMI 2308754): Collaborative Research: The Role of Stress in Human Crowd Dynamics during Emergency Situations.** Collaborative PI, funds to MacCormack: \$421,500.
- 2020-2022 **Cardiovascular Behavioral Medicine Postdoctoral Training Fellowship (T32)** appointed in the Department of Psychiatry at the University of Pittsburgh, from the National Heart, Lung, and Blood Institute. Award No. 5T32HL007560-37. PIs: Peter Gianaros, Ph.D. & Rebecca Thurston, Ph.D.
- 2018-2020 **Ruth L. Kirschstein National Research Service Award Individual Predoctoral Fellowship (F31)** from the National Institute on Aging (\$71,188; PI): *Neural contributions to older adults' embodied emotion experience and regulation.* Award No. 1F31AG055265-01A1.
- 2014-2015 **Howard Hughes Medical Institute Science Fellowship** (\$13,086; PI)
- 2013-2014 **Junior Scientist Fellowship** from the American Psychological Association of Graduate Students & Psi Chi International (\$1000; PI): *The role of hunger and context in emotion.*
- 2012-2013 **NC State University College of Humanities & Social Sciences Seed Grant** (\$2000; PI). *Maternal emotion knowledge in children's development of emotion understanding.*
- 2012-2013 **NC State University College of Humanities & Social Sciences Thesis Grant** (\$1000; PI). *Maternal emotion knowledge in children's development of emotion understanding.*

## Honors and Awards

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### SCHOLARSHIP

- 2022 • **Biomedical Data Science Innovation Lab**, Selected Fellow for 2022 Lab on Ethical Challenges of AI in Biomedicine
- 2021 • **Best Dissertation in Affective Science Award**, Society for Affective Science
- 2021 • **Citation Abstract Award**, Society for Affective Science
- 2019 • **Best Symposium Talk**, Carolina Research in Social & Personality Psychology
- 2019 • **Award for MacLean Neuroscience Scholars**, American Psychosomatic Society
- 2018 • **Citation Poster Award**, American Psychosomatic Society
- 2017 • **Summer School in Social Neuroscience & Neuroeconomics 2017 Fellow**
- 2017 • **Best Poster Award**, Society for Affective Science
- 2017 • **Graduate Student Travel Award**, Society for Personality and Social Psychology
- 2016 • **The UNC Christopher R. Agnew Research Innovation Award** in Social Psychology
- 2015 • **National Science Foundation Graduate Student Fellowship** Honorable Mention
- 2014 • **UNC Center for Faculty Excellence: Future Faculty Fellowship** 2014 Fellow
- 2013 • **NC State University Darnell Johnson Outstanding Senior in Psychology Award**
- 2012 • **Phi Beta Kappa** NC State University Chapter
- 2012 • **Psi Chi**, The National Honor Society in Psychology, NC State University

### TEACHING

- 2023 • **Commendation for student career mentorship**, UVA Career Center (student nominated)
- 2018 • **Psi Chi Award for Excellent Undergraduate Instruction** (student nominated)
- 2017 • **Departmental teaching commendation**, Intro to Social Psychology: Fall 2017
- 2017 • **Departmental teaching commendation**, Intro to Social Psychology: Spring 2017
- 2016 • **Departmental teaching commendation**, Psychology Research Methods: Fall 2016

## Peer-Reviewed Publications

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23. **MacCormack, J. K.**, Bonar, A. S., & Lindquist, K. A. (2024). Interoceptive beliefs moderate the link between physiological and emotional arousal during acute stress. *Emotion*, 24, 269-290.  
<https://doi.org/10.1037/emo0001270>

22. Bonar, A. S., **MacCormack, J. K.**, Feldman, M. J., & Lindquist, K. A. (2023). Examining the role of emotional granularity on emotion and cardiovascular physiological activity during acute stress. *Affective Science*, 4, 317-331. <https://doi.org/10.1007/s42761-023-00189-y>
21. **MacCormack, J. K.**, Gianaros, P. J., & Kraynak, T. E. (2023). Neuroimaging in health psychology: Methods, concepts, and applications. Chapter in *APA Handbook of Health Psychology (Vol. 1: Foundations and Context)*.
20. Feldman, M. J., **MacCormack, J. K.**, Bonar, A. S., & Lindquist, K. A. (2023). Interoceptive ability moderates the effect of physiological reactivity on social judgment. *Emotion*, 23, 2231-2242. <https://doi.org/10.1037/emo0001210>
19. **MacCormack, J. K.**, Bonar, A. S., Feldman, M. J., & Lindquist, K. A. (2023). Aging bodies, brains, and emotions: The physiological hypothesis of emotional aging. In (Eds., R. E. Kleck, R. B. Adams, Jr., & U. Hess). *Emotion communication by the aging face and body: A multidisciplinary view*. Cambridge University Press, Cambridge, UK.
18. Atzil, S., Satpute, A. B., Zhang, J., Parrish, M. H., Shablack, H., **MacCormack, J. K.**, Leshin, J. C., Goel, S., Brooks, J. A., Kang, J., Xu, Y., Cohen, M., & Lindquist, K. A. (2023). The impact of sociality and affective valence on brain activation: A meta-analysis. *NeuroImage*, 268, 119879. <https://doi.org/10.1016/j.neuroimage.2023.119879>
17. Sosoo, E. E., **MacCormack, J. K.**, & Neblett, E. W. (2022). Psychophysiological and affective reactivity to vicarious police violence. *Psychophysiology*, 59, 10, e14065. <https://doi.org/10.1111/psyp.14065>
16. Gray, K., **MacCormack, J. K.**, Henry, T. R., Banks, E., Schein, C., Armstrong-Carter, E., Abrams, S., & Muscatell, K. A. (2022). The affective harm account of moral judgment: Reconciling cognition and affect, dyadic morality and gut feelings, harm and purity. *Journal of Personality and Social Psychology*. <https://doi.org/10.1037/pspa0000310>
15. Inagaki, T. K., **MacCormack, J. K.**, & Muscatell, K. A. (2022). Prosocial and positive health behaviors during a period of chronic stress protect socioemotional well-being. *Affective Science*, 3, 160-167. <https://doi.org/10.1007/s42761-021-00095-1>
14. **MacCormack, J. K.**, Armstrong-Carter, E. L., Gaudier-Diaz, M. M., Meltzer-Brody, S., Sloan, E. K., Lindquist, K. A., & Muscatell, K. A. (2021). Beta-adrenergic contributions to emotion and physiology during an acute psychosocial stressor. *Psychosomatic Medicine*, 83, 959-968. <https://doi.org/10.1097/PSY.0000000000001009>
13. Merritt, C., **MacCormack, J. K.**, Stein, A. G., Lindquist, K. A., & Muscatell, K. A. (2021). The neural underpinnings of intergroup social cognition: An fMRI meta-analysis. *Social Cognitive and Affective Neuroscience*, 16, 903-914. <https://doi.org/10.1093/scan/nsab034>
12. **MacCormack, J. K.**, Armstrong-Carter, E. L., Humphreys, K. L., & Muscatell, K. A. (2021). Neurophysiological contributors to advantageous risk-taking: An experimental psychopharmacological investigation. *Social Cognitive and Affective Neuroscience*, 16, 926-936. <https://doi.org/10.1093/scan/nsab047>
11. **MacCormack, J. K.**, Gaudier-Diaz, M. M., Armstrong-Carter, E. L., Arevalo, J. M. G., Meltzer-Brody, S., Sloan, E. K., Cole, S. W., & Muscatell, K. A. (2021). Beta-adrenergic blockade blunts inflammatory and antiviral/antibody gene expression responses to acute social stress. *Neuropsychopharmacology*, 46, 756-762. <https://doi.org/10.1038/s41386-020-00897-0>
10. **MacCormack, J. K.**, Henry, T. R., Davis, B. M., Oosterwijk, S., & Lindquist, K. A. (2021). Aging bodies, aging emotions: Interoceptive differences in emotion representations and self-report across adulthood. *Emotion*, 21, 227-246. <https://doi.org/10.1037/emo0000699>
9. **MacCormack, J. K.**, Stein, A. G., Kang, J., Giovanello, K. S., Satpute, A. B., & Lindquist, K. A. (2020). Affect in the aging brain: A neuroimaging meta-analysis of functional activation and coactivation differences in older vs. younger adult affective experience and perception. *Affective Science*, 1, 128-154. <https://doi.org/10.1007/s42761-020-00016-8>

8. **MacCormack, J. K.**, Castro, V. L., Halberstadt, A. G., & Rogers, M. L. (2019). Mothers' interoceptive knowledge predicts their third-grade children's emotion regulation and social skills. *Social Development*, 29, 2, 578-599. <https://doi.org/10.1111/sode.12418>
7. **MacCormack, J. K.**, & Muscatell, K. A. (2019). The metabolic mind: A role for leptin and ghrelin in affect and social cognition. *Social and Personality Psychology Compass*, 13, e12496. <https://doi.org/10.1111/spc3.12496>
6. **MacCormack, J. K.**, & Lindquist, K. A. (2019). Feeling hangry? When hunger is conceptualized as emotion. *Emotion*, 19, 301-319. <http://doi.org/10.1037/emo0000422>
5. **MacCormack, J. K.**, & Lindquist, K. A. (2017). The constitutive role of the body in emotion: Schachter's legacy for a psychological constructionist view of emotion. *Emotion Review*, 9, 36-45. <https://doi.org/10.1177/175407391663966>
4. Rogers, M., L., Halberstadt, A. G., Castro, V. L., **MacCormack, J. K.**, & Garrett-Peters, P. (2016). Maternal emotion socialization differentially predicts emotion regulation and lability in middle childhood. *Emotion*, 16, 280-291. <https://doi.org/10.1037/emo0000142>
3. **MacCormack, J. K.**, & Lindquist, K. A. (2016). Detection of emotion. *SAGE Encyclopedia of Theory in Psychology*.
2. Lindquist, K. A., **MacCormack, J. K.**, & Shablack, H. (2015). The role of language in emotion: Predictions from psychological constructionism. *Frontiers in Psychology*, 6, 1-17. <https://doi.org/10.3389/fpsyg.2015.00444>
1. Lindquist, K. A. & **MacCormack, J. K.** (2014). Constructionism is a multi-level framework for affective science. *Emotion Review*, 6, 134-139. <https://doi.org/10.1177/1754073913512000>

#### IN REVISION OR REVIEW

3. Costello, M. C., **MacCormack, J. K.**, Paek, E., Jalloh, U., & Borghi, A. M. (in revision). An embodied language shift in older adults.
2. Lin, J., **MacCormack, J. K.**, Boker, S. M., Coan, J. A., & Stanton, S. C. E. (under review). The role of perceived negative partner behavior in daily snacking behavior: A dynamical systems approach.
1. Toner, E. R., Larrazábal, M. A., Cai, L., Henry, T. R., **MacCormack, J. K.**, Boukhechba, M., Barnes, L. E., & Teachman, B. A. (in revision). Social anxiety and concordance in emotional responses across levels of evaluative threat.

#### IN PREPARATION (WORKING MANUSCRIPTS)

2. **MacCormack, J. K.**, Alkhateeb, S., Ibrahim, T., Manuck, S., Marsland, A. L., & Gianaros, P. J. (in prep). Systemic inflammation and hippocampal volume in a midlife community sample.
1. **MacCormack, J. K.**, Henry, T. R., Jackson, J. C., Bonar, A. S., Watts, J., List, M., & Lindquist, K. A. (in prep). Mind-body dualism in semantics across the world's language families.

#### OTHER PRODUCTS OF SCHOLARSHIP

1. **MacCormack, J. K.** (2018). When does hungry become hangry? *The Conversation*. (>120,000 unique readers) <https://theconversation.com/when-does-hungry-become-hangry-98065>

## Presentations

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#### INVITED CONFERENCE AND KEYNOTE TALKS

2. **MacCormack, J. K.** (May 2023). *Interoception for emotional health and well-being across the lifespan*. Invited Keynote Address for Shepherd University's 14<sup>th</sup> Annual Aging Well Workshop, May 9<sup>th</sup>, 2023, Shepherdstown, WV.

1. **MacCormack, J. K.** (March 2022). *Minding the body: The role of interoception in linking physiology and emotion during acute stress*. Invited Award Talk for 2021 Best Dissertation in Affective Science Award, presented at the Society for Affective Science 2022 virtual conference.

#### REFEREED CONFERENCE TALKS

15. **MacCormack, J. K.** (November 2022). *Aging body as context: The role of interoceptive aging in mid and late life emotion*. Oral presentation as part of symposium “New Spins on Classic Ideas About Context in Adult Emotional Development” (Co-Chairs: Tabea Springstein & Tammy English), presented at the Gerontological Society of America, Indianapolis, IN.
15. **MacCormack, J. K.**, Henry, T. R., Jackson, J. C., Bonar, A. S., Watts, J., List, J.-M., & Lindquist, K. A. (April 2021). *Mind-body dualism in emotion concepts across 2,474 languages*. Flash talk presented at the Society for Affective Science 2021 virtual conference. **Won a 2021 Citation Abstract Award.**
14. Bonar, A. S., **MacCormack, J. K.**, Feldman, M. J., Inagaki, T. K., & Lindquist, K. A. (April 2021). *Assessing the role of bodily sensations in emotion: Development of the Body Signal Beliefs Questionnaire*. Flash talk presented at the Society for Affective Science 2021 virtual conference.
13. Feldman, M. J., Luo, J., **MacCormack, J. K.**, & Lindquist, K. A. (April 2021). *Feeling ourselves: An exploration of gender and interoception*. Flash talk presented at the Society for Affective Science 2021 virtual conference.
12. Kenyon, S. H., Vasquez, K., Majus, G., Huynh, N., **MacCormack, J. K.**, Muscatell, K. M., & Inagaki, T. K. (March 2021). *Prosocial behavior boosts socioemotional well-being during chronic stress*. Virtual oral presentation at San Diego State University’s Student Research Symposium (SRS). **Won the 2021 Undergraduate Research Excellence Award.**
11. **MacCormack, J. K.**, Henry, T. R., Jackson, J. C., Watts, J., List, J.-M., & Lindquist, K. A. (April 2020). *Linking emotion concepts to cognitive and bodily states across 2,474 languages*. Flash talk was to be presented at the Society for Affective Science, San Francisco, CA, but conference cancelled due to COVID-19.
10. **MacCormack, J. K.**, Armstrong-Carter, E. L., Gaudier-Diaz, M. M., Meltzer-Brody, S., Lindquist, K. A., & Muscatell, K. A. (April 2019). *Bodily contributions to emotion: Effects of beta-adrenergic blockade during acute psychosocial stress*. Talk presented at the Carolina Research in Social & Personality Psychology conference, Durham, NC. **Won a 2019 Best Symposium Talk Award.**
9. **MacCormack, J. K.**, Stein, A. G., Kang, J., Satpute, A. B., & Lindquist, K. A. (March 2019). *Emotion in the aging brain: A neuroimaging meta-analysis of older vs. younger adult emotion*. Flash talk presented at the Society for Affective Science, Boston, MA.
8. **MacCormack, J. K.**, Henry, T. R., Davis, B. M., Oosterwijk, S., & Lindquist, K. A. (March 2019). *Aging bodies, aging emotions: Interoceptive differences in emotion representations and self-report across adulthood*. Spotlight talk presented at the Society for Affective Science, Boston, MA.
7. **MacCormack, J. K.**, Stein, A. G., Kang, J., Satpute, A. B., & Lindquist, K. A. (March 2019). *Emotion in the aging brain: A constructionist perspective*. Flash talk presented at the Society for Affective Science Constructionist Preconference, Boston, MA.
6. **MacCormack, J. K.**, Gaudier-Diaz, M. M. G., Armstrong-Carter, E. L., Arevalo, J. M. G., Meltzer-Brody, S., Sloan, E. K., Cole, S. W., & Muscatell, K. A. (March 2019). *Beta-adrenergic blockade blunts inflammatory and antiviral/antibody gene expression responses to acute social stress*. Paper presented at the American Psychosomatic Society, Vancouver, BC. **Won a 2019 MacLean Scholar Award.**
5. **MacCormack, J. K.**, Armstrong-Carter, E. L., Gaudier-Diaz, M. M., Meltzer-Brody, S., Lindquist, K. A., & Muscatell, K. A. (February 2019). *(De)constructing stress: Sympathetic blockade effects on acute stress physiology and experience*. Talk presented at the Society for Personality and Social Psychology Emotion Preconference, Portland, OR.
4. **MacCormack, J. K.**, Armstrong-Carter, E. L., Gaudier-Diaz, M. M., Meltzer-Brody, S., Lindquist, K. A., & Muscatell, K. A. (October 2018). *Physiology in context: Sympathetic blockade alters psychological and physiological*

*responses to acute social stress*. Talk presented at the Society of Southeastern Social Psychologists, Raleigh, NC.

3. **MacCormack, J. K.**, Perry, J. M., & Lindquist, K. A. (April 2017). *Interoceptive sensitivity and physiological reactivity differentially predict emotional and somatic experiences*. Spotlight talk presented at the Society for Affective Science, Boston, MA.
2. **MacCormack, J. K.**, & Lindquist, K. A. (April 2017). *Feeling hangry? Conceptualizing hunger as emotion in context*. Talk presented at the Carolina Research in Social & Personality Psychology conference, Durham, NC.
1. **MacCormack, J. K.**, & Lindquist, K. A. (March 2016). *Feeling hangry? Misattributing hunger as emotion*. Spotlight talk presented at the Society for Affective Science, Chicago, IL.

#### EXTERNAL DEPARTMENTAL OR AREA TALKS

3. **MacCormack, J. K.** (March 2024). *The importance of interoception for emotional health and well-being across the lifespan*. Talk to be presented to the Department of Psychology, Georgetown University, Washington, DC.
3. **MacCormack, J. K.** (March 2023). *Systemic inflammation and hippocampal volume across mid-to-late life*. Talk presented to the Cardiovascular Behavioral Medicine Group in the Department of Psychiatry, University of Pittsburgh.
3. **MacCormack, J. K.** (September 2021). *Interoception in cognitive development and aging*. Talk presented at Cognitive Psychology Lunch in the Department of Psychology, University of Virginia, Charlottesville, VA.
2. **MacCormack, J. K.** (December 2020). *The visceral mind: The role of the body in affect*. Talk presented to the Department of Psychology, University of Virginia, Charlottesville, VA.
1. **MacCormack, J. K.** (November 2019). *Bodily contributions to affect*. Talk presented to the Cardiovascular Behavioral Medicine Group in the Department of Psychiatry, University of Pittsburgh, Pittsburgh, PA.

#### INTERNAL DEPARTMENTAL OR AREA TALKS

7. **MacCormack, J. K.** (September 2020). *Towards an interoceptive science of stress*. Talk presented to the Cardiovascular Behavioral Medicine Group in the Department of Psychiatry, University of Pittsburgh.
6. **MacCormack, J. K.** (February 2020). *The affective neuroscience of aging: A meta-analytic perspective*. Talk presented to the Human Neuroimaging Group, University of North Carolina at Chapel Hill.
5. **MacCormack, J. K.** (November 2019). *Bodily contributions to affect*. Talk presented in the Social Psychology Program, University of North Carolina at Chapel Hill.
4. **MacCormack, J. K.** (October 2018). *Body as context: How our internal bodily states shape our emotions*. Talk presented in the Social Psychology Program, University of North Carolina at Chapel Hill.
3. **MacCormack, J. K.**, Goel, S., & Lindquist, K. A. (November 2017). *Best practices for combining psychophysiology and functional neuroimaging*. Talk presented to the Human Neuroimaging Group, University of North Carolina at Chapel Hill.
2. **MacCormack, J. K.** (April 2015). *Aging emotion concepts: Interoceptive differences between older and younger adults*. Talk presented in the Social Psychology Program, University of North Carolina at Chapel Hill.
1. **MacCormack, J. K.** (April 2014). *Angry or just hungry? Bodily states as affective information in emotional experience*. Talk presented in the Social Psychology Program, University of North Carolina at Chapel Hill.

#### REFEREED POSTERS

36. Stockwell, K. M., **MacCormack, J. K.**, & Jaswal, V. K. (March 2024). *Examining social regulation in non-speaking autistic adults*. Poster to be presented at the Society for Affective Science, New Orleans, LA.

35. Drummond, T. M. L., Bittner, S., Birdsong, E., **MacCormack, J. K.**, Lindquist, K. A., & Cohen, J. R. (March 2024). *A network neuroscience approach to the role of interoception in risky decisions*. Poster to be presented at the Society for Affective Science, New Orleans, LA.
34. Toner, E. R., Larrazábal, M. A., Cai, L., Henry, T. R., **MacCormack, J. K.**, Boukhechba, M., Barnes, L. E., & Teachman, B. A. (November 2022). Social anxiety and concordance in emotional responses across levels of evaluative threat. Poster presented at the Anxiety Special Interest Group of the Association for Behavioral and Cognitive Therapies Convention, New York City, New York.
33. Feldman, M. J., Patel, U., **MacCormack, J. K.**, Bonar, A. S., Lindquist, K. A. (October 2022). Cardiac interoceptive ability moderates the effect of SNS but not PNS reactivity on social judgment during stress. Poster presented at the Society for Research in Psychophysiology Annual Meeting, Vancouver, BC, Canada.
32. Feldman, M. J., Bonar, A. S., Frye, N., İmamoğlu, A., **MacCormack, J. K.**, Giovanello, K., Lindquist, K. A. (June 2022). The Physiological Hypotheses of Emotional Aging: Introduction and implications for Alzheimer's Disease. Peer reviewed poster presented at the 2022 Symposium for Learning about Alzheimer's disease-related medical research at Duke and UNC in Durham, NC.
31. Bonar, A. S., **MacCormack, J. K.**, Feldman, M. J., & Lindquist, K. A. (March 2022). *Emotional granularity is protective against negative emotion during acute stress*. Poster presented at the Society for Affective Science 2022 virtual conference.
30. **MacCormack, J. K.**, Bonar, A. S. & Lindquist, K. A. (June 2020). *Shared vs. distinct neural representations of hunger, satiety, and emotion*. Poster was to be presented at the Organization for Human Brain Mapping, Montreal, Quebec, but conference cancelled due to COVID-19.
29. **MacCormack, J. K.**, Bonar, A. S. & Lindquist, K. A. (May 2020). *The metabolic mind: Shared vs. distinct neural bases of hunger and emotion*. Poster was to be presented at the Association for Psychological Science, Chicago, IL, but conference cancelled due to COVID-19.
28. **MacCormack, J. K.**, Bonar, A. S. & Lindquist, K. A. (April 2020). *Hungry or emotional? A functional neuroimaging meta-analysis of the neural bases of hunger and emotion*. Poster was to be presented at the Society for Affective Science, San Francisco, CA, but conference cancelled due to COVID-19.
27. Feldman, M. J., **MacCormack, J. K.**, & Lindquist, K. A. (April 2020). *The power of predictions: Body beliefs matter above and beyond physiological reactivity and interoceptive ability in predicting affect during acute stress*. Poster was to be presented at the Society for Affective Science, San Francisco, CA, but conference cancelled due to COVID-19.
26. Liccione, A. M., **MacCormack, J. K.**, & Lindquist, K. A. (April 2020). *Disentangling the roles of alexithymia and interoception in acute stress*. Poster was to be presented at the Society for Affective Science, San Francisco, CA, but conference cancelled due to COVID-19.
25. Merritt, C., **MacCormack, J. K.**, Stein, A. G., Lindquist, K. A., & Muscatell, K. A. (February 2020). *The brain basis of cross-race social cognition: An fMRI meta-analysis of empathy for racial ingroup and outgroup members*. Poster presented at the Society for Personality and Social Psychology Social Cognition Preconference, New Orleans, LA.
24. **MacCormack, J. K.**, Henry, T. R., Davis, B. M., Oosterwijk, S., & Lindquist, K. A. (March 2019). *Aging bodies, aging emotions: Interoceptive differences in emotion representations and self-report across adulthood*. Poster presented at the Society for Affective Science, Boston, MA.
23. **MacCormack, J. K.**, Armstrong-Carter, E. L., Gaudier-Diaz, M. M., Meltzer-Brody, S., Lindquist, K. A., & Muscatell, K. A. (February 2019). *(De)constructing stress: Sympathetic blockade effects on acute stress physiology and experience*. Poster presented at the Society for Personality and Social Psychology, Portland, OR.
22. Gaudier-Diaz, M. M., **MacCormack, J. K.**, Armstrong-Carter, E. L., Meltzer-Brody, S., Lindquist, K. A., & Muscatell, K. A. (November 2018). *Effects of propranolol on cortisol, alpha-amylase, and circulating*

*interleukin-6 following a social stress task.* Poster presented at the Society for Neuroscience, San Diego, CA.

21. Gaudier-Diaz, M. M., **MacCormack, J. K.**, Armstrong-Carter, E. L., Meltzer-Brody, S., Lindquist, K. A., & Muscatell, K. A. (July 2018). *Effects of propranolol on cortisol, alpha-amylase, and circulating interleukin-6 following a social stress task.* Poster presented at the Institutional Research and Academic Career Development Awards (IRACDA) Conference, Atlanta, GA.
20. **MacCormack, J. K.**, Armstrong-Carter, E. L., Meltzer-Brody, S., Lindquist, K. A., & Muscatell, K. A. (April 2018). *Arousal, awareness, or appraisal? A double-blind study with propranolol comparing the relative roles of sympathetic activation, interoception, and appraisals in emotion experience.* Poster presented at the Society for Affective Science, Los Angeles, CA.
19. Bonar, A. S., **MacCormack, J. K.**, & Lindquist, K. A. (April 2018). *Believing your body: Beliefs about the value, regulation, and intensity of bodily signals matter for interoceptive and emotional awareness.* Poster presented at the Society for Affective Science, Los Angeles, CA.
18. **MacCormack, J. K.**, Armstrong-Carter, E. L., Meltzer-Brody, S., Lindquist, K. A., & Muscatell, K. A. (March 2018). *Arousal, awareness, or appraisal? A double-blind study with propranolol comparing the relative roles of sympathetic activation, interoception, and appraisals in affective responses to stress.* Poster presented at the American Psychosomatic Society, Louisville, KY. **Won a 2018 Citation Poster Award.**
17. Alvarez, G. M., **MacCormack, J. K.**, Armstrong-Carter, E. L., Meltzer-Brody, S., Lindquist, K. A., & Muscatell, K. A. (March 2018). *Beta-adrenergic receptor blockade reduces anticipatory threat only for individuals with low levels of depressive symptoms.* Poster presented at the American Psychosomatic Society, Louisville, KY.
16. **MacCormack, J. K.**, Perry, J. M., & Lindquist, K. A. (March 2018). *The differential effects of interoceptive sensitivity and autonomic reactivity on emotional experience.* Poster presented at the Society for Personality and Social Psychology, Atlanta, GA.
15. **MacCormack, J. K.**, Perry, J. M., & Lindquist, K. A. (March 2018). *The differential effects of interoceptive sensitivity and autonomic reactivity on emotional experience.* Poster presented at the Society for Personality and Social Psychology Emotion Preconference, Atlanta, GA.
14. **MacCormack, J. K.**, Perry, J. M., & Lindquist, K. A. (April 2017). *Interoceptive sensitivity and physiological reactivity differentially predict emotional and somatic experiences.* Poster presented at the Society for Affective Science, Boston, MA. **Won a 2017 Best Poster Award.**
13. **MacCormack, J. K.**, & Lindquist, K. A. (January 2017). *Feeling hangry? Conceptualizing hunger as emotion in context.* Poster presented at the Society for Personality and Social Psychology, San Antonio, TX.
12. **MacCormack, J. K.**, & Lindquist, K. A. (March 2016). *Feeling hangry? Misattributing hunger as emotion.* Poster presented at the Society for Affective Science, Chicago, IL.
11. **MacCormack, J. K.**, & Lindquist, K. A. (January 2016). *Aging impacts on emotion embodiment: Older adults' emotion knowledge and self-reported experience is less interoceptively-focused than in younger adults.* Poster presented at the Society for Personality and Social Psychology, San Diego, CA.
10. **MacCormack, J. K.**, & Lindquist, K. A. (January 2016). *Feeling hangry? Misattributing hunger as emotion.* Poster presented at the Society for Personality and Social Psychology Emotion Preconference, San Diego, CA.
9. **MacCormack, J. K.**, Davis, B. M., & Lindquist, K. A. (April 2015). *Emotion concept knowledge contains less interoceptive information in older versus younger adults.* Poster presented at the Carolina Research in Social & Personality Psychology conference, Durham, NC.
8. **MacCormack, J. K.**, Davis, B. M., & Lindquist, K. A. (April 2015). *Emotion concept knowledge contains less interoceptive information in older versus younger adults.* Poster presented at the Society for Affective Science, Oakland, CA.



7. **MacCormack, J. K.**, & Lindquist, K. A. (January 2015). *Not everyone essentializes emotions: Exploring the construct of emotion incrementalism*. Poster presented at the Society for Personality and Social Psychology, Long Beach, CA.
6. **MacCormack, J. K.**, & Lindquist, K. A. (January 2015). *Not everyone essentializes emotions: Exploring the construct of emotion incrementalism*. Poster presented at the Society for Personality and Social Psychology Emotion Preconference, Long Beach, CA.
5. **MacCormack, J. K.**, Rogers, M., & Halberstadt, A. G. (April 2014). *Mothers' interoceptive knowledge contributes to their emotion understanding and socialization of children's socioemotional skills*. Poster presented at the inaugural Society for Affective Science, Washington DC.
4. Rogers, M., **MacCormack, J. K.**, & Halberstadt, A. G. (April 2014). *Mothers' maladaptive emotion regulation serves as a mediator between maternal emotion beliefs and children's socioemotional outcomes*. Poster presented at the inaugural Society for Affective Science, Washington DC.
3. **MacCormack, J. K.**, Rogers, M., & Halberstadt, A. G. (February 2014). *The value of early emotion understanding: Children's regulatory complexity and socioemotional competence in school*. Poster presented at the Society for Personality and Social Psychology, Austin, TX.
2. Rogers, M., **MacCormack, J. K.**, & Halberstadt, A. G. (February 2014). *Mothers' maladaptive emotion regulation serves as a mediator between maternal emotion beliefs and children's socioemotional outcomes*. Poster presented at the Society for Personality and Social Psychology Emotion Preconference, Austin, TX.
1. Halberstadt, A. G., **MacCormack, J. K.**, Shull, R. H., & Castro, V. L. (April 2013). *Mothers' emotional complexity supports children's social skills*. Poster presented at the Society for Research in Child Development, Seattle, WA.

## Teaching and Mentoring

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### INSTRUCTION AT THE UNIVERSITY OF VIRGINIA

|   |   |
|---|---|
| <i>Introduction to Social Psychology</i> (PSYC2600)           | Spring 2024 (335 undergraduate students)<br>Fall 2022 (375 undergraduate students)  |
| <i>Research in Psychology</i> (PSYC3590)                      | Spring 2024 (4 undergraduate students)<br>Fall 2023 (1 undergraduate student)<br>Spring 2023 (3 undergraduate students)<br>Fall 2022 (4 undergraduate students) |
| <i>Research in Neuroscience</i> (NESC3960)                    | Fall 2023 (1 undergraduate student)   |
| <i>Research in Neuroscience for Non-Majors</i> (NESC3995)     | Spring 2024 (1 undergraduate student)   |
| <i>Research Methods in Social Psychophysiology</i> (PSYC5620) | Spring 2023 (15 undergraduate, 10 graduate students)  |
| <i>Contemporary Issues in Social Psychology</i> (PSYC7406)    | Spring 2024 (8 graduate students)   |
| <i>Research: Social Affective Psychobiology</i> (PSYC9502)    | Spring 2024 (1 graduate student)<br>Fall 2023 (1 graduate student)  |

### PRIOR INSTRUCTIONAL EXPERIENCE

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| <i>Introduction to Social Psychology</i> (PSYC260) | Spring 2020 (45 students) at UNC-CH, lead instructor<br>Fall 2017 (45 students) at UNC-CH, lead instructor<br>Spring 2017 (45 students) at UNC-CH, lead instructor<br>Fall 2015 (45 students) at UNC-CH, lead instructor<br>Spring 2014 (200 students) at UNC-CH, teaching assistant |
| <i>Research Methods in Psychology</i> (PSYC270)    | Summer 2017 (10 students) at UNC-CH, lead instructor   |

|   |   |
|---|---|
|   | Fall 2016 (40 students) at UNC-CH, lead instructor  |
| <i>Introduction to Psychology</i> (PSYC101) | Spring 2016 (300 students) at UNC-CH, teaching assistant<br>Fall 2014 (200 students) at UNC-CH, teaching assistant  |
| <i>The Psychology of Emotion</i> (PSYC089)  | Spring 2015 (20 students) at UNC-CH, lead instructor<br>Fall 2013 (45 students) at UNC-CH, teaching assistant<br>Fall 2011 (120 students) at NCSU, teaching assistant |

**UNIVERSITY OF VIRGINIA STUDENT COMMITTEES**

***Dissertation Committees***

**Chair & Primary Mentor**

NA

**Committee Member**

2024 Kayden Stockwell, Developmental Psychology, University of Virginia  
Kenn Dela Cruz, Developmental Psychology, University of Virginia  
Jingrun Lin, Clinical Psychology, University of Virginia

***Doctoral Qualifying Exam Committees***

**Chair & Primary Mentor**

NA

**Secondary Reader**

2023 Jingrun Lin, Clinical Psychology, University of Virginia  
Kayden Stockwell, Developmental Psychology, University of Virginia

***Undergraduate Distinguished Major Projects (Senior Honors Theses)***

**Chair & Primary Mentor**

2024-2025 Gianna Latorre, Neuroscience  
Walker Wright, Psychology

**Secondary Reader**

2023 Sally O'Connor, Psychology, "Interpersonal discrimination and structural inequality as determinants of mental health"

**NON-UNIVERSITY OF VIRGINIA STUDENT COMMITTEES**

***Dissertation Committees***

2023-2024 Marisa Lytle, Developmental Psychology, Pennsylvania State University

***Doctoral Qualifying Exam Committees***

2022-2023 Marisa Lytle, Developmental Psychology, Pennsylvania State University

***Undergraduate Honors Thesis Committees*** (\* role as chair or primary mentor)

2020-2021 **Olivia Lucas, University of Pittsburgh**  
Research Coordinator, Behavioral Immunology Lab, University of Pittsburgh  
Thesis: *The relationship between depressive symptoms and menopausal status in midlife women*

2019-2020 **Ava Liccione, University of North Carolina at Chapel Hill \***  
Lab Coordinator, Health and Human Performance Lab, Carnegie Mellon University  
Thesis: *The role of alexithymia in interoceptive contributions to acute stress*  
\* Won a Lindquist Undergraduate Excellence Research Award  
\* Won an Honors Undergraduate Research Award

- 2017-2018 **Adrienne Bonar, University of North Carolina at Chapel Hill \***  
 PhD Student, Carolina Affective Science Lab, UNC-Chapel Hill  
 Thesis: *The role of interoceptive ability and disordered body beliefs in stress*  
 \* Won a David Bray Peele Memorial Research Award
- 2016-2017 **Jenna Perry, University of North Carolina at Chapel Hill \***  
 Data Scientist  
 Thesis: *Interoceptive and autonomic differences in emotional intensity*  
 \* Won an Honors Undergraduate Research Award
- 2015-2016 **Andrea Zuniga, University of North Carolina at Chapel Hill \***  
 Practicing MA in Behavioral Analysis  
 Thesis: *Individual differences in interoceptive knowledge & experience*  
 \* Won a David Bray Peele Memorial Research Award
- 2014-2015 **Brian Davis, University of North Carolina at Chapel Hill \***  
 Project Manager at Epic Systems  
 Thesis: *Interoceptive differences in older vs. younger adults' emotion concepts*  
 \* Won an Honors Undergraduate Research Award  
 \* Won a Lindquist Undergraduate Excellence Research Award

**MENTORSHIP AND ADVISING AT THE UNIVERSITY OF VIRGINIA**

**Primary Faculty Mentor to Postdoctoral Trainees**

NA

**Secondary Faculty Mentor to Postdoctoral Trainees**

2023- Stefen Beeler-Duden

**Primary Faculty Mentor to Graduate Students**

2023- Lauren Beliveau

**Secondary Faculty Mentor to Graduate Students**

- 2022- Sareena Chadha  
 2022- Jingrun Lin  
 2023- Kayden Stockwell  
 2023- Kenn Dela Cruz  
 2023- Minah Kim  
 2022-2023 Jaclyn Lisnek  
 2022-2023 Isabelle Moore  
 2022-2023 Sara Ahmed

**Primary Faculty Mentor to Undergraduate Research Assistants**

- 2023-2024 **17 undergraduate research assistants:** Yanni Aknine, Grace Allen, Katherine Aziz, Ava Bagherian, Anna Boyarinova, Nathan Ferns, Caroline Gilman, Gianna Latorre, Jessica Lin, Mary Holland Mason, Isabelle Ngo, Izah Qureshi, Samantha Reynolds, Ryder Robins, Emma Shin, Marina Wang, Walker Wright.
- 2022-2023 **16 undergraduate research assistants:** Grace Allen, Katherine Aziz, Ava Bagherian, Katherine Blaugrund, Anna Boyarinova, Sophia Celentano, Nhiya David, Nathan Ferns, Caroline Gilman, Gianna Latorre, Jessica Lin, Mary Holland Mason, Isabelle Ngo, Ryder Robins, Emma Shin, Marina Wang.

**Primary Academic Advisor to Undergraduate Students**

- 2023-2024 25 Psychology majors  
 2022-2023 23 Psychology majors

**MENTORSHIP AND ADVISING AT THE UNIVERSITY OF NORTH CAROLINA**

**Primary Graduate Mentor to Undergraduate Research Assistants**

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|-----------|--|
| 2019-2020 | Cathy Chi, Sonia Colnot, Riley Craig, Lauren Gaeta, Ava Liccione, Christina Vu.  |
| 2018-2019 | Ruchi Bhatia, Cathy Chi, Sonia Colnot, Riley Craig, Grace DeSena, Lauren Gaeta, Jessica Gerlach, Julia DiNicola, Ben Dosan, Nick Hufton, Ava Liccione, Kate Nicholson, Jacob Pascual, Dillon Rubalcava, Christina Vu, Max Yan. |
| 2017-2018 | Ruchi Bhatia, Adrienne Bonar, Cathy Chi, Sonia Colnot, Grace DeSena, Julia DiNicola, Ben Dosan, Billy Dzieszinski, Ava Liccione, Connor Linden, Kaylee Miceli, Kate Nicholson, Mariam Shabih.                                  |
| 2016-2017 | Adrienne Bonar, Thelma Bost, Elizabeth Chavez, Grace DeSena, Elaine Hager, Marianna Jones, Kyra Kapsaskis, Jasper Mark, Margaret McAllister, Heather Ortega, Jenna Perry, Saleha Rana, Mariam Shabih, Allen Tirado.            |
| 2015-2016 | Adrienne Bonar, Kyra Kapsaskis, Margaret McAllister, Andrea Zuniga.  |
| 2014-2015 | Brian Davis, Nick Hatcher, Hanna Hoke, Samantha Richards, Jared Scruggs, Jake West, Anna Zeng.   |
| 2013-2014 | Madison Evans, Hanna Hoke, Chloe Opper, Emily Orr.   |

**Professional Service and Activities**

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**AFFILIATIONS**

- *American Psychosomatic Society*
- *Association for Psychological Science*
- *Gerontological Society of America*
- *Psychoneuroimmunology Research Society*
- *Social and Affective Neuroscience Society*
- *Society for Affective Science*
- *Society for Personality & Social Psychology*
- *Social Personality & Health Network*
- *Society for Psychophysiological Research*
- *Society of Southeastern Social Psychologists*

**EDITORIAL BOARD**

- *Affective Science* (2021-Present)
- *Emotion* (2023-2025)

**AD HOC REVIEWS**

- *Affective Science*
- *Biological Psychology*
- *Cognition & Emotion*
- *Emotion*
- *Emotion Review*
- *European Journal of Psychological Assessment*
- *Frontiers in Psychology*
- *Imagination, Cognition, & Personality*
- *Infant and Child Development*
- *International Journal of Obesity*
- *International Journal of Psychophysiology*
- *Journal of Experimental Psychology: General*
- *Journal of Gerontology: Psychological Sciences*
- *Journal of Psychosomatic Research*
- *Motivation and Emotion*
- *NeuroImage*
- *Neuropsychologia*
- *Neuroscience and Biobehavioral Reviews*
- *PLOS One*
- *Proceedings of the National Academy of Sciences*
- *Psychophysiology*
- *Psychoneuroendocrinology*
- *Psychology of Consciousness: Theory, Research, & Practice*
- *Psychological Review*
- *Psychological Science*
- *Social Cognitive and Affective Neuroscience*
- *Social Ontology*

**CONSULTANCY**

- 2020 • **Social/Health Developmental Science Consultant for Educators:** Consultant for a network of educators in France who were developing a new curriculum. Prepared and presented a 15-min science-based educational video for schools and educators on children’s cognitive, socioemotional, cardiovascular, and immune development.

- 2019-2020 • **UNC Biomedical Research Imaging Center (BRIC) Psychophysiology-Neuroimaging Consultant.** Oversaw installation and set-up of in-scanner BioPac psychophysiology system in a 3T PRISMA MRI scanner. Provided ongoing training and consultation for UNC university-wide BRIC human neuroimagers who wished to use BioPac in the scanner.
- 2017-2020 • **UNC Department of Psychology and Neuroscience Psychophysiology Consultant.** Assisted with management of shared departmental psychophysiology suites. Showcased shared suites to donors and deans. Consulted with doctoral students on psychophysiology study design, best practices, data scoring and reporting. Led annual department-wide psychophysiology training workshop for students.

**SERVICE TO THE PROFESSION**

- 2023-2024 • **Co-Chair, Social Media Committee**, Society for Affective Science
- 2023-2024 • **Member, Awards Committee**, Society for Affective Science
- 2022-2023 • **Chair, Social Media Committee**, Society for Affective Science
- 2022-2023 • **Co-Chair, Methods Events**, Society for Affective Science
- 2022-2023 • **Member, Awards Committee**, Society for Affective Science
- 2021-2022 • **Chair, Social Media Committee**, Society for Affective Science
- 2021-2022 • **Member, Awards Committee**, Society for Affective Science
- 2021 • **Social Psychology Editor**, 2021 Application Statement Feedback Program (ASFP; Learn more at <https://www.asfp.io/>)
- 2021 • **Host**, Professional development round table on obtaining post-doctoral fellowships, Health Pre-Conference to the Society for Personality & Social Psychology Annual Conference
- 2021 • **Host and Discussant**, Data blitz session on “Cognitive & Social Cognitive Links to Health”, Health Pre-Conference to the Society for Personality & Social Psychology Annual Conference
- 2020-2021 • **Co-Chair, Social Media Committee**, Society for Affective Science
- 2019-2020 • **Abstract Reviewer**, Association for Psychological Science Conference 2020
- 2019-2020 • **Social Media Team**, Society for Affective Science Student Committee
- 2018-2019 • **Social Media Team**, Society for Affective Science Student Committee
- 2017-2018 • **Student Representative**, Society for Affective Science Board of Directors
- 2017-2018 • **Chair Elect**, Society for Affective Science Student Committee
- 2017-2018 • **Events Team Lead**, Society for Affective Science Student Committee
- 2016-2017 • **Graduate Mentor**, Summer Program for Undergraduate Research (SPUR), Society for Personality and Social Psychology
- 2016-2017 • **Vice Chair Elect**, Society for Affective Science Student Committee
- 2016-2017 • **Social Media Team Lead**, Society for Affective Science Student Committee
- 2015-2016 • **Secretary**, Society for Affective Science Student Committee
- 2015-2016 • **Diversity Team Lead**, Society for Affective Science Student Committee

**SERVICE TO THE DEPARTMENT AND UNIVERSITY**

- 2022-2023 • **Faculty Member, University of Virginia, Department of Psychology’s Graduate Curriculum Committee**, Subcommittee of the Departmental Diversity, Equity, and Inclusion Committee
- 2022-2023 • **Faculty Member, University of Virginia, Department of Psychology’s Undergraduate Committee**, Undergraduate Subcommittee for Redesign of Introductory Courses with Active Learning

- 2022 • **Invited Career Panelist, University of Pittsburgh**, on “Developing your research brand for the academic job market” in a panel discussing “Professional Brand and Networking”, part of a workshop series for women in graduate school on “Shattering the glass ceiling: Revealing the hidden curriculum” at the University of Pittsburgh, funded by the Whittington Leadership and Innovation Challenge
- 2019-2020 • **Elected Social Psychology Program Student Representative, UNC-Chapel Hill**, through peer election, served on the Graduate Advisory Committee for the Department of Psychology and Neuroscience
- 2016, 2018 • **Psychophysiology Journal Club Lead Organizer, UNC-Chapel Hill**. Initiated and led a monthly journal club for graduate students interested in psychophysiology, with attendees spanning psychology and neuroscience, exercise & sports science, nursing, and business
- 2018 • **Invited Panelist and Social Neuroscience Representative, UNC-Chapel Hill**, Psychology panel on “Neuroscience Careers”
- 2016 • **Invited Panelist and Representative for Psychology & Neuroscience, UNC-Chapel Hill**, Health Occupation Students of America panel on “Alternative Careers in Health and Biomedicine”
- **Invited Panelist and Social Psychology Representative, UNC-Chapel Hill**, UNC Psychology Club panel on “Getting More from Your Psychology Degree”
- 2015-2016 • **Student-Faculty Liaison, UNC-Chapel Hill**, Social Psychology Program
- 2014 • **Invited Panelist and Social Psychology Representative, UNC-Chapel Hill**. Panel on “Career Paths in Psychology” for the Psychology Careers class taught by Dr. Mitch Prinstein
- 2013 • **Invited Panelist and Social Psychology Representative, UNC-Chapel Hill**. UNC Psychology Club panel on “Getting into Grad School”

#### **PUBLIC SCIENCE OUTREACH**

- 2016, 2018, 2019 • **North Carolina Science Festival**, booth on “What is an emotion?” to introduce the psychophysiology and neuroscience of emotion to the public across a wide range of ages
- 2018 • **North Carolina Science Festival**, Psychology and Neuroscience tour guide to the public, including laboratory demonstrations
- **North Carolina Scientific Research & Education Network**, worked with local teachers to create high school-level lesson plans on “Affective Neuroscience and Psychophysiology” consistent with Biology and Physiology Core Curriculum requirements
- 2015 • **North Carolina Scientific Research & Education Network**, worked with local teachers to create middle school-level lesson plans on “Mapping Emotions: Methods & Data” consistent with Statistics Core Curriculum requirements
- 2014 • **North Carolina Scientific Research & Education Network**, worked with local teachers to create elementary school-level lesson plans on “Understanding Your Feelings” consistent with Social Science Core Curriculum requirements

#### **Selected Media Coverage**

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- **Scientific American** – [Art may be in the body of the beholder](#)
- **Psychology Today** – [Understanding interoception: The sixth sense](#)
- **The New York Times** – [Don’t get mad, but ‘hangry’ isn’t really angry](#)
- **National Public Radio** – [How hunger pangs can make nice people “hangry”](#)
- **Washington Post** – [If you’ve ever been hangry, this is what your body may be telling you](#)
- **Newsweek** – [Why do we get hangry? Study offers new explanation for why you’re not yourself when you’re hungry](#)

- **Time** – [Here's why you get hangry, according to science](#)
- **Vice** – [This is how hungry becomes hangry](#)
- **Bustle** – [What causes “hangry” feelings? A study reveals that there is more at play than just hunger](#)
- **WUNC Radio** – [Eat your feelings: How hunger becomes hanger](#)
- **The Naked Scientists Podcast** – [Hangry! How hunger affects your mood](#)