

ELISE M CARDINALE

CATHOLIC UNIVERSITY OF AMERICA • WASHINGTON, DC 20064
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EDUCATION & ACADEMIC POSITIONS

- 2022 – **Assistant Professor**, Department of Psychology, The Catholic University of America, Washington, DC
- 2017 – 2022 **Postdoctoral Research Fellow**, Emotion & Development Branch, National Institute of Mental Health, Bethesda, MD
Mentors: Daniel Pine, M.D. & Ellen Leibenluft, M.D.
- 2017 **Ph.D., Psychology**, Georgetown University, Washington, DC
Concentration in Lifespan Cognitive Neuroscience
Advisor: Abigail Marsh, Ph.D.
- 2015 **M.A., Psychology**, Georgetown University, Washington, DC
Advisor: Abigail Marsh, Ph.D.
- 2010 **B.A., Psychology**, Georgetown University, Washington, DC
Minor in Philosophy

HONORS & AWARDS

- 2020 **Office of Fellowship and Training Travel Award**, National Institute of Mental Health
- 2019 **Alies Muskin Career Development Leadership Program Awardee**, Anxiety and Depression Association of America
- 2018 **Harold N. Glassman Distinguished Dissertation Award in Social Sciences**, Georgetown University Graduate School of Arts & Sciences
- 2015 **Cozzarelli Prize**, Proceedings of the National Academy of Sciences

MANUSCRIPTS UNDER REVIEW & IN PREPARATION

*undergraduate, postbaccalaureate, or predoctoral trainee under my supervision

Conte, S., Richards, J.E., Fox, N.A., Valadez, E.A., McSweeney, M., Tan, E., Pine, D.S., Winkler, A.M., Liuzzi, L., **Cardinale, E.M.**, White, L.K., & Buzzell, G.A. (Under Review). Multimodal study of the neural sources of error monitoring in adolescents and adults.

PUBLICATIONS

40. **Cardinale, E.M.**, *Bezek, J., Morales, S., Filippi, C., Smith, A.R., Haller, S., Valadez, E.A., Harrewijn, A., Phillips, D., Chronis-Tuscano, A., Brotman, M.A., Fox, N., Pine, D.S., Leibenluft, E., & Kircanski, K. (In Press). Cross-sectional and longitudinal associations of anxiety and irritability with adolescents' neural responses to cognitive conflict. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*
39. Bas-Hoogendam, J. M., Groenewold, N. A., Aghajani, M., Freitag, G. F., Harrewijn, A., Hilbert, K., ... & Volman, I. (2022). ENIGMA-anxiety working group: Rationale for and organization of large-scale neuroimaging studies of anxiety disorders. *Human Brain Mapping*, 43(1), 83-112.
[PDF](#)

38. Harrewijn, A., **Cardinale, E.M.**, Groenewold, N.A., Bas-Hoogendam, J.M., Aghajani, M., ... Winkler, A.M., & Pine, D.S. (2021). Cortical and subcortical brain structure in generalized anxiety disorder – Findings from 28 research sites in the ENIGMA-Anxiety Working Group. *Translational Psychiatry*, 11(1), 1-15. [PDF](#)
37. Naim-Aricha, R., Goodwin, M.S., Lee, K., Dombek, K., Agorsor, C., Revzina, O., Zapp, C., *Freitag, G., **Cardinale, E.M.**, Jangraw, D., & Brotman, M.A. (2021). Cardiovascular reactivity as a measure of irritability in a transdiagnostic sample of youth: Preliminary associations. *International Journal of Methods in Psychiatric Research*, 30(4), e1890. [PDF](#)
36. Naim-Aricha, R., Smith, A., Chue, A., Grassie, H., Dombek, K., Shaughnessy, S., McNeil, C., **Cardinale, E.M.**, Agorsor, C., Cardenas, S., Brooks, J., Subar, A.R., Jones, E.L., Do, Q.B., Pine, D.S., Leibenluft, E., Brotman, M.A., & Kircanski, K. (2021). Using ecological momentary assessment to enhance irritability phenotyping in a transdiagnostic sample of youth. *Development & Psychopathology*, 33(5), 1734-1746. [PDF](#)
35. Zik, J., Deveney, C., Ellingson, J.M., Haller, S.P., Kircanski, K., **Cardinale, E.M.**, Brotman, M.A., Stoddard, J. (2021). Understanding irritability in relation to anger, aggression, and informant in a pediatric clinical population. *Journal of the American Academy of Child & Adolescent Psychiatry*. [PDF](#)
34. Abend, R., Bajaj, M., Coppersmith, D.D.L., Kircanski, K., Haller, S.P., **Cardinale, E.M.**, Salum, G.A., Wiers, R.W., Salemink, E., Pettit, J.W., Pérez-Edgar, K., Lebowitz, E., Silverman, W.K., Bar-Haim, Y., Brotman, M.A., Leibenluft, E.L., Fried, E.I., & Pine, D.S. (2021). A computational network perspective on pediatric anxiety symptoms. *Psychological Medicine*, 51(10), 1752-1762. [PDF](#)
33. Abend, R., Bajaj, M.A., Matsumoto, C., Yetter, M., Harrewijn, A., **Cardinale, E.M.**, Kircanski, K., Lebowitz, E.R., Silverman, W.K., Bar-Haim, Y., Lazarov, A., Leibenluft, E., Brotman, M., & Pine, D.S. (2021). Converging multi-modal evidence for implicit threat-related biases in pediatric anxiety disorders. *Journal of Abnormal Child Psychology*, 49(2), 227-240. [PDF](#)
32. **Cardinale, E.M.**, *Freitag, G.F., Brotman, M.A., Pine, D.S., Leibenluft, E., & Kircanski, K. (2021). Phasic versus tonic irritability: Differential associations with ADHD symptoms. *Journal of the American Academy of Child and Adolescent Psychiatry*. [PDF](#)
31. **Cardinale, E.M.**, Haller, S.P., Naim, R., German, R., *Botz-Zapp, C., *Bezek, J., Jangraw, D., & Brotman, M.A. (2021). Rationale and validation of a novel mobile application probing motor inhibition: Proof of concept of CALM-IT. *PLOS One*, 16(6): e0252245. [PDF](#)
30. [†]**Cardinale, E.M.**, [†]Pagliaccio, D., Swetlitz, C., *Grassie, H., Costa, V., Averbeck, B., Pine, D.S., Leibenluft, E., & Kircanski, K. (2021). Deliberative choice strategies in youth: Relevance to transdiagnostic anxiety symptoms. *Clinical Psychological Science*, 9(5), 979-989. [†]Authors contributed equally [PDF](#)
29. **Cardinale, E.M.**, Reber, J., O'Connell, K., Turkeltaub, P.E., Tranel, D., Buchanan, T.W., & Marsh, A.A. (2021). Bilateral amygdala damage linked to impaired ability to predict others' fear but preserved moral judgments about causing others' fear. *Proceedings of the Royal Society B: Biological Sciences*, 288(1943), 20202651. [PDF](#)

28. Harrewijn, A., Abend, R., Naim, R., Haller, S.P., Stavish, C., Bajaj, M.A., Matsumoto, C., Dombek, K., **Cardinale, E.M.**, Kircanski, K., & Brotman, M.A. (2021). Attention bias to negative versus non-negative faces is related to negative affectivity in a transdiagnostic youth sample. *Journal of Psychiatric Research*, 138, 514-518. [PDF](#)
27. Bertluti, K., O'Connell, K.M., Rhoads, S.A., Brethel-Haurwitz, K.M., **Cardinale, E.M.**, Vekaria, K.M., Robertson, E.L., Walitt, B., VanMeter, J.W., & Marsh, A.A. (2020). Reduced multi-voxel pattern similarity of vicarious neural pain responses in psychopathy. *Journal of Personality Disorders*, 34(5), 628-649. [PDF](#)
26. **Cardinale, E.M.** (2020). Parsing comorbidity: The challenge of studying neurobiological correlates of callous unemotional traits. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 5(5), 470-472. [PDF](#)
25. **Cardinale, E.M.** & Marsh, A.A. (2020). The reliability and validity of the inventory of callous unemotional traits: A meta-analytic review. *Assessment*, 27(1), 57-71. [PDF](#)
24. **Cardinale, E.M.**, Ryan, R.M. & Marsh, A.A. (2020). Maladaptive fearlessness: An examination of the association between subjective fear experience and antisocial behavior. *Journal of Personality Disorders*, 1-18. [PDF](#)
23. Lewis, K.M, Matsumoto, C., **Cardinale, E.M.**, *Jones, E., Gold, A.L., Stringaris, A., Leibenluft, E., Pine, D.S., Brotman, M.A. (2020). Self-efficacy as a target for neuroscience research on moderators of treatment outcomes in pediatric anxiety. *Journal of Child and Adolescent Psychopharmacology*, 30(4), 205-214. [PDF](#)
22. Rhoads, S.A., **Cardinale, E.M.**, O'Connell, K., Palmer, A.L., VanMeter, J.W., & Marsh, A.A. (2020). Mapping neural activity patterns to contextualized fearful facial expressions onto callous-unemotional (CU) traits: Intersubject representational similarity analysis reveals less variation among high-CU adolescents. *Personality Neuroscience*, 3. [PDF](#)
21. Vekaria, K.M., O'Connell, K.O., Rhoads, A.S., Brethel-Haurwitz, K.M., **Cardinale, E.M.**, Robertson, E.L., Walitt, B., VanMeter, J.W., & Marsh, A.A. (2020). Activation in bed nucleus of the stria terminalis corresponds to everyday helping. *Cortex*, 127, 67-77. [PDF](#)
20. Zugman, A., Harrewijn, A., **Cardinale, E.M.**, Zwiebel, H., *Freitag, G., Werwath, K., ... Pine, D.S., & Winkler, A.M. (2020). Mega-analysis methods in ENIGMA: The experience of the generalized anxiety disorder working group. *Human Brain Mapping*. [PDF](#)
19. **Cardinale, E.M.**, Kircanski, K., *Brooks, J., Winkler, A., Gold, A., Stringaris, A., Towbin, K.E., Pine, D.S., Leibenluft, E., Brotman, M.A. (2019). Parsing neurodevelopmental features of anxiety and irritability: Replication and validation of a latent variable approach. *Development and Psychopathology*, 31(3), 917-929. [PDF](#)
18. **Cardinale, E.M.**, O'Connell, K., *Robertson, E.L., *Meena, L.B., Breeden, A.L., Lozier, L.M., VanMeter, J.W. & Marsh, A.A. (2019). Callous and uncaring traits are associated with reductions in amygdala volume among youths with varying levels of conduct problems. *Psychological Medicine*, 49(9), 1449-1458. [PDF](#)
17. **Cardinale, E.M.**, *Subar, A.R., Kircanski, K., Leibenluft, E., Brotman, M.A., Pine, D.S. (2019). Inhibitory control and emotion dysregulation: A framework for research on anxiety. *Development and Psychopathology*, 31(3), 859-869. [PDF](#)

16. O'Connell, K., Brethel-Haurwitz, K.M., **Cardinale, E.M.**, Vekaria, K.M., Robertson, E.L., Walitt, B., VanMeter, J.W., & Marsh, A.A. (2019). Increased similarity of neural responses to experienced and empathic distress in costly altruism. *Scientific Reports*, 9(1), 1-11. [PDF](#)
15. Smith, A., Kircanski, K., Do, Q.B., Subar, A., Silk, S., Crosby, R.D., Harrewijn, A., White L.K., Haller, S.P., **Cardinale, E.M.**, Buzell, G.A., Barker, T., Leibenluft, E., & Pine, D.S. (2019). Advancing clinical neuroscience through enhanced tools: Pediatric social anxiety as an example. *Depression & Anxiety*, 36(8), 701-711. [PDF](#)
14. Brethel-Haurwitz, K.M., **Cardinale, E.M.**, Vekaria, K.M., Robertson, E.L., VanMeter, J.W., & Marsh, A.A. (2018). Extraordinary altruists exhibit enhanced self-other overlap in neural responses to distress. *Psychological Science*, 29(10), 1631-1641. [PDF](#)
13. Brethel-Haurwitz, K.M., O'Connell, K.O., **Cardinale, E.M.**, Stoianova, M., Stoycos, S.A., Lozier, L.M., VanMeter, J.W., & Marsh, A.A. (2017). Amygdala-midbrain connectivity indicates a role for the mammalian parental care system in human altruism. *Proceedings of the Royal Society B: Biological Sciences*, 284(1865), 20171731. [PDF](#)
12. **Cardinale, E.M.**, Breeden, A.L., *Robertson, E.L., Lozier, L.M., VanMeter, J.W. & Marsh, A.A. (2017). Externalizing behavior severity in youths with callous-unemotional traits corresponds to patterns of amygdala activity and connectivity during judgments of causing fear. *Development and Psychopathology*, 30(1), 191-201. [PDF](#)
11. Vekaria, K.M., Brethel-Haurwitz, K.M., **Cardinale, E.M.**, Stoycos, S.A. & Marsh, A.A. (2017). Social discounting and distance perceptions in costly altruism. *Nature Human Behavior*, 1(5), 0100. [PDF](#)
10. Brethel-Haurwitz, K.M., Stoycos, S.A., **Cardinale, E.M.**, Huebner, B., & Marsh, A.A. (2016). Is costly punishment altruistic? Exploring rejection of unfair offers in the Ultimatum Game in real-world altruists. *Scientific Reports*, 6, 18974. [PDF](#)
9. **Cardinale, E.M.** & Marsh, A.A. (2015). Impact of psychopathy on moral judgments about causing fear and physical harm. *PLoS One*, 10, e0125708. [PDF](#)
8. Breeden, A.L., **Cardinale, E.M.**, Lozier, L.M., VanMeter, J.W. & Marsh, A.A. (2015). Callous-unemotional traits drive reduced white matter integrity in youths with conduct problems. *Psychological Medicine*, 45, 3033-3046. [PDF](#)
7. Brewer, R., Marsh, A., Catmur, C., **Cardinale, E.M.**, Stoycos, S., Cook, R. & Bird, G. (2015). The impact of autism spectrum disorder and alexithymia on judgments of moral acceptability. *Journal of Abnormal Psychology*, 124(3), 589. [PDF](#)
6. **Cardinale, E.M.**, Finger, E.C., Schechter, J.C., Jurkowitz, I.T.N., Blair, R.J.R. & Marsh, A.A. (2014). The moral status of an action influences its perceived intentional status in adolescents with psychopathic traits. *Oxford Studies in Experimental Philosophy*, Vol. 1. New York: Oxford University Press, 138-154. [PDF](#)
5. Lozier, L.M., **Cardinale, E.M.**, VanMeter, J.W. & Marsh, A.A. (2014). Mediation of the relationship between callous-unemotional traits and proactive aggression by amygdala response to fear among children with conduct problems. *JAMA Psychiatry*, 26, 933-945. [PDF](#)
4. Marsh, A.A. & **Cardinale, E.M.** (2014). When psychopathy impairs moral judgments: neural responses during judgments about causing fear. *Social Cognitive and Affective Neuroscience*, 9, 3-11. [PDF](#)

3. Marsh, A.A., **Cardinale, E.M.**, Chentsova-Dutton, Y.E., Grossman, M & Krumpos, K. (2014). Power plays: Expressive mimicry of valid agonistic cues. *Social Psychology & Personality Science*, 5, 684-690. [PDF](#)
2. Marsh, A.A., Stoycos, S.A., Brethel-Haurwitz, K.M., Robinson, P., VanMeter, J.W. & **Cardinale, E.M.** (2014). Neural and cognitive characteristics of extraordinary altruists. *Proceedings of the National Academy of Sciences*, 111, 15036-15041. [PDF](#)
1. Marsh, A.A. & **Cardinale, E.M.** (2012). Psychopathy and fear: Specific impairments in judging behaviors that frighten others. *Emotion*, 12, 892-898. [PDF](#)

PREREGISTERED REPORTS

Haller, S.P., Jeong, A., Harrewijn, A., Zeytinoglu, S., Morales, S., **Cardinale, E.M.**, Lorenzo, N., Stoddard, J., Pine, D.S., Fox, N.A., & Brotman, M.A. (2021). Predicting anxiety trajectories during the COVID-19 pandemic in young adults from adolescent threat and cognitive control profiles using fMRI. [OSF Preregistration](#)

Harrewijn, A., **Cardinale, E.M.**, Bas-Hoogendam, J., Groenewold, N., Stein, D. J., van der Wee, N., ... Pine, D. S., (2019). ENIGMA generalized anxiety disorder. [OSF Preregistration](#)

CONFERENCE PRESENTATIONS (selected)

Cardinale, E.M., *Telli, O., *Morales, I., German, R., Lee, K., Kircanski, K., Brotman, M., Pine, D.S., Leibenluft, E. (2021). Access to neighborhood opportunity as a moderator of anxiety and irritability symptom severity and impairment in a large transdiagnostic sample of youth. Poster accepted for the 60th Annual Meeting of the American College of Neuropsychopharmacology, San Juan, Puerto Rico.

*Morales, I., *Telli, O., German, R., Lee, K., Kircanski, K., Brotman, M., Pine, D., Liebenluft, L., & **Cardinale, E.M.** (2021). The impact of neighborhood resource levels on hippocampus and amygdala volume in anxious and irritable youth. Talk Johns Hopkins 5th Annual Excellence in Diversity Symposium, Virtual Conference.

*Shaughnessey, S., *Bezek, J., Pine, D.S., Brotman, M.A., Leibenluft, E., Kircanksi, K., & **Cardinale, E.M.** (2021). The moderating role of ADHD symptoms on deficits in proactive control in youth with irritability. Poster presented at the 23rd Annual NIMH IRP Fellows' Scientific Training Day, Bethesda, MD.

*Telli, O., *Morales, I., German, R., Lee, K., Kircanski, K., Brotman, M., Pine, D.S., Liebenluft, L., & **Cardinale, E.M.** (2021). Neighborhood resource level as a moderator of symptom severity and impairment in a sample of transdiagnostic youth. Poster presented at the 2021 National Institutes of Health Summer Research Presentation Week, Bethesda, MD.

*Bezek, J.L., *Freitag, G.F., *Subar, A.S., Fillipi, C., Brotman, M.A., Pine, D.S., Leibenluft, E., Kircanski, K., & **Cardinale, E.M.** (2020) A latent variable approach to examining inhibitory control in pediatric psychopathology. Poster presented at the Annual Meeting of the Society of Biological Psychiatry, New York, NY.

Cardinale, E.M., *Freitag, G., Brotman, M.A., Pine, D.S., Leibenluft, E., & Kircanski, K. (2020). Phasic versus tonic irritability: Differential associations with ADHD symptoms. Poster presented at the 4th Congress on Pediatric Irritability and Dysregulation, Virtual Conference.

- Cardinale, E.M.**, *Freitag, G., *Subar, A., *Bezek, J., Fillipi, C., Brotman, M., Pine, D.S., Leibenluft, E., & Kircanski, K. (2020). Inhibitory control and childhood psychopathology: A latent variable approach. Talk accepted at the Anxiety and Depression Association of America Annual Conference, San Antonio, TX. Cancelled due to COVID-19.
- Cardinale, E.M.** & Marsh, A.A. (2020). The emotionally evocative statements task: a novel paradigm to assess recognition and moral permissibility of the emotional consequences of behavior. Talk accepted at the annual Meeting of the Social and Affective Neuroscience Society, Santa Barbara, CA. Cancelled due to COVID-19.
- *Botz-Zapp,C.A., **Cardinale, E.M.**, *Bezek, J., *Freitag, G., *Subar, A., Stavish, C., Naim, R., Haller, S., & Brotman, M.A. (2019). Piloting a novel behavioral inhibition paradigm in youth via mobile application. Poster presented at the 21st Annual NIMH IRP Fellows' Scientific Training Day, Washington, DC.
- Cardinale, E.M.**, O'Connell, K., *Robertson, E., *Meena, L., Breeden, A., Lozier, L., VanMeter, J., & Marsh, A.A. (2019). Callous and uncaring traits are associated with reductions in amygdala volume among youths with varying levels of conduct problems. Poster presented at the 8th meeting of the Society for Scientific Study of Psychopathy, Las Vegas, NV.
- *Freitag, G.F., Kircanski, K., Brotman, M., Pine, D.S., & **Cardinale E.M.** (2019). ADHD, irritability, and inhibitory control in a transdiagnostic sample of youth. Poster presented at the 2019 National Institutes of Health Postbaccalaureate Poster Day, Bethesda, MD.
- *Freitag, G.F., *Subar, A., Leibenluft, E., Brotman, M., Kircanski, K., Pine, D.S., & **Cardinale, E.M.** (2019). Differentiating cognitive control mechanisms of child and adolescent anxiety and irritability using a latent variable approach. Poster presented at the 31st APS Annual Convention, Washington, DC.
- *Grassie, H., **Cardinale, E.M.**, Pagliaccio, D., Swetlitz, C., Costa, V., Averbeck, B., Brotman, M.A., Pine, D.S., Leibenluft, E., & Kircanski, K. (2019). Explore-exploit decision making in a pediatric clinical sample. Poster presented at the 21st Annual NIMH IRP Fellows' Scientific Training Day, Washington, DC.
- *Rooke, V., **Cardinale, E.M.**, Naim, R., *Zapp, C., *Freitag, G., *Revzina, O., Subar, A., Kircanski, K., Leibenluft, E., Pine, D.S., & Brotman, M.A. (2019). Inhibitory control deficits in irritable youths. Poster presented at the National Institutes of Health Summer Research Program Poster Day, Bethesda, MD.
- *Brooks, J., Cardinale, E.M., Gold, A., Fillipi, C., Sachs, J., Steuber, E., Pacheco, J., Pine, D., Leibenluft, E. & Brotman, M.A. (2018). An investigation of anxiety and irritability as predictors of cortical volume in youth. Poster presented at the Anxiety and Depression Association of America Annual Conference, Washington, DC.
- *Brooks, J., **Cardinale, E.M.**, Kircanski, K., Pine, D., Leibenluft, E. & Brotman, M.A. (2018). Modelling dimensionally assessed anxiety and irritability in youth. Poster presented at the Association for Behavioral and Cognitive Therapies Annual Convention, Washington, DC.
- *Gancz, N., **Cardinale, E.M.**, *Perlstein, S., Wakschlag, L., Briggs-Gowen, M.J., Towbin, K., Pine, D.S., Brotman, M.A., & Leibenluft, E. (2018). Exploring the validity of the MAP-DB temper loss scale through associations with irritability in a clinical sample of youth. Poster presented at the National Institutes of Health Summer Research Program Poster Day, Bethesda, MD.

- *Hu, R., **Cardinale, E.M.**, Seidlitz, J., Raznahan, A., Leibenluft, E., Pine, D., & Kircanski, K. (2018). Morphometric similarity networks in childhood anxiety and irritability. Poster presented at the Annual Meeting of the Society of Biological Psychiatry, Chicago, IL.
- *Perlstein, S., **Cardinale, E.M.**, *Gancz, N., Wakshchlag, L., Briggs-Gowan, M.J., Towbin, K., Pine, D.S., Brotman, M.A., & Leibenluft, E. (2018). Exploring dimensions of low concern for others in a clinical sample of youth with varying levels of disruptive behavior and irritability. Poster presented at the 2018 National Institutes of Health Research Festival, Bethesda, MD.
- *Subar, A.R., Leibenluft, E., Pine, D.S., & **Cardinale, E.M.** (2018). Anti-saccade: An investigation of flexible control. Poster presented at the 2018 National Institutes of Health Research Festival, Bethesda, MD.
- Cardinale, E.M.** & Marsh, A.A. (2017). An examination of the reliability and validity of the three-bifactor structure of the Inventory of Callous Unemotional Traits: A meta-analytic review. Talk presented at the 7th meeting of the Society for Scientific Study of Psychopathy, Antwerp, Belgium.
- Cardinale, E.M.**, Reber, J., Harrington, R., Harris-Love, M., Turkeltaub, P., Buchanan, T. & Marsh, A.A. (2016). Examining the causal role of amygdala function on perceptions of emotional consequences of social actions. Poster presented at the Annual Meeting of the Social and Affective Neuroscience Society, New York, NY.
- Cardinale, E.M.**, Reber, J., Harrington, R., Harris-Love, M., Turkeltaub, P., Buchanan, T. & Marsh, A.A. (2016). Uncovering a causal link between amygdala function and understanding fear in others. Poster presented at the Annual Meeting of the Society for Personality and Social Psychology, San Diego, CA.
- Cardinale, E.M.**, Palmer, A.L., Whalen, P.J. & Marsh, A.A. (2015). Neural correlates of contextual processing of fearful facial expressions in adolescents with elevated callous-unemotional traits. Poster presented at the 6th meeting of the Society for Scientific Study of Psychopathy, Chicago, IL.
- Cardinale, E.M.**, Breeden, A.A., *Robertson, E.L., Lozier, L.M. & Marsh, A.A. (2015). Decreased amygdala activation and functional connectivity associated with callous unemotional traits during moral judgments of causing fear. Poster presented at the Annual Meeting of the Social and Affective Neuroscience Society, Boston, MA.
- Cardinale, E.M.**, Lozier, L.M., Stoycos, S.A. & Marsh, A.A. (2014). Amygdala activation during sympathizing as a function of callous-unemotional traits. Poster presented at the Annual Meeting of the Social and Affective Neuroscience Society, Denver, CO.
- Cardinale, E.M.**, Stoycos, S.A. & Marsh, A.A. (2014). Predicting Aggression: Fearless Temperament and Callous-Unemotional Traits as pathways to aggressive behavior. Poster presented at the Annual meeting of the Society for Personality and Social Psychology, Austin, TX.
- Cardinale, E.M.** & Marsh, A.A. (2013). Amygdala activation during adolescents' moral judgments as a function of callous unemotional traits. Poster presented at the 5th meeting of the Society for Scientific Study of Psychopathy, Washington, DC.
- Cardinale, E.M.** & Marsh, A.A. (2013). No harm, no foul? Psychopathy impairs moral judgments about victim distress but not victim harm. Poster presented at the Association for Psychological Science's Annual Convention, Washington, DC.

TEACHING EXPERIENCE

- 2020, 2022 **Instructor**, The Catholic University of America, *Washington, DC*
Course: Clinical Neuroscience
- 2019 **Guest Lecturer**, The Catholic University of America, *Washington, DC*
Course: Affective & Cognitive Neuroscience
- 2015 **Instructor**, Georgetown University, *Washington, DC*
Course: Moral Psychology
- 2014, 2017 **Teaching Fellow**, Georgetown University, *Washington, DC*
Course: Research Methods and Statistics
• Responsibilities included teaching weekly lab section

SERVICE

- 2019 – 2022 NIH Affective Neuroscience Group (ANGST) Postdoctoral Fellow Representative
- 2017 – 2022 Emotion and Development Branch Applying to PhD Programs Seminar
- 2017, 2019 Emotion and Development Branch Recruitment and Interview Committee
- 2016 – 2017 American Psychological Society (APS) Graduate Student Representative
- 2015 – 2016 Georgetown University Psychology Department Newsletter
- 2014 – 2015 Georgetown Research Volunteer Program (GRVP) Student Representative
- 2013 – 2016 Georgetown University Graduate Program in Psychology Interview Committee

TRAINING & SKILLS

Assessments: Psychopathy Checklist Revised (PCL-R) (Darkstone accredited, June 2013 Norwalk, CT), Kauffman Brief Intelligence Test (KBIT)

Experimental Software: EPrime, Superlab, Qualtrics

Analytic Software: MS Excel, SPSS Statistics, Stata, R, Mplus, HLM, Eyelink DataViewer, Analysis of Functional NeuroImages (AFNI), Statistical Parametric Mapping (SPM) (Functional Activation, Voxel-Based Morphometry, & Generalized Psychophysiological Interaction Analyses), FreeSurfer, PALM (Permutation Analysis of Linear Models)

AD HOC REVIEWER

Behavior Research and Therapy, Biological Psychiatry, British Journal of Psychiatry, Criminal Justice and Behavior, Development & Psychopathology, Developmental Cognitive Neuroscience, Emotion, European Child & Adolescent Psychiatry, Journal of Abnormal Child Psychology, Journal of the American Academy of Child & Adolescent Psychiatry, Journal of Child Psychology & Psychiatry, Journal of Neuroscience, The Lancet Psychiatry, PLoS One, Psychological Medicine, Scientific Reports

PROFESSIONAL AFFILIATIONS

Anxiety and Depression Association of America (ADAA), Association for Psychological Science (APS), Social & Affective Neuroscience Society (SANS), Society for the Scientific Study of Psychopathy (SSSP)