

Abigail Marsh, PhD

Professor, Georgetown University
Director, Laboratory on Social & Affective Neuroscience
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EMPLOYMENT HISTORY

2019 – present	Professor , Department of Psychology, Georgetown University
2018 – 2020	Co-Director, Graduate Program , Department of Psychology, Georgetown University
2013 – 2019	Associate Professor , Department of Psychology, Georgetown University
2008 – present	Affiliated faculty , Interdisciplinary Program in Neuroscience, Georgetown University
2008 – 2013	Assistant Professor , Department of Psychology, Georgetown University
2008	Adjunct Professor , Department of Psychology, Georgetown University

EDUCATION AND TRAINING

2004 – 2008	NIH Intramural Research Training Award (IRTA) Postdoctoral Fellow. National Institute of Mental Health, Unit on Affective & Cognitive Neuroscience. Advisor: James Blair
2004	Ph.D., Social Psychology. Harvard University Advisors: Nalini Ambady, Daniel Wegner
2001	M.A., Social Psychology. Harvard University Advisor: Nalini Ambady
1999	B.A., Psychology, <i>summa cum laude</i>, Phi Beta Kappa. Dartmouth College Advisor: Robert Kleck

AWARDS AND HONORS

2021	Mid-Career Trajectory in Affective Science Award , Society for Affective Science
2019	SPSP OpEd Training Program Awardee
2019	SPSP Book Prize for the Promotion of Social and Personality Science , Society for Personality and Social Psychology
2018	Fellow , Association for Psychological Science
2017	Kuno Award for Applied Science for the Social Good , S&R Foundation
2017	Spielberger EMPathy Symposium Award , American Psychological Foundation
2016	Fellow , Society for Personality & Social Psychology
2015, 2021	Senior Faculty Research Fellowship , Georgetown University
2014, 2017	Distinguished Georgetown Investigator , Georgetown University
2014	Cozzarelli Prize for scientific excellence and originality <i>Proceedings of the National Academy of Sciences</i>

2011-2014, 2018-2020	College Honors nominee , Georgetown College Academic Council
2007	Richard J. Wyatt Memorial Fellowship Award for translational research. National Institute of Mental Health
2007	Fellows Award for Research Excellence , National Institute of Mental Health
1999	Benjamin Benner 1969 Award for Excellence in Research , Dartmouth College
1999	Nickerson 1964 Prize for Most Outstanding Graduating Psychology Major , Dartmouth College
1998	Presidential Research Fellow , Dartmouth College

PUBLICATIONS

Peer reviewed publications

- Rhoads, S. A., Cutler, J. & **Marsh, A. A.** (2021). A feature-based network analysis and fMRI meta-analysis reveal three distinct types of prosocial decisions. *Social Cognitive & Affective Neuroscience*, 16(12), 1214–1233. <https://doi.org/10.1093/scan/nsab079>
- Marsh, N., **Marsh, A. A.**, Lee, M. R., & Hurlmann, R. (2021). Oxytocin and the neurobiology of prosocial behavior. *The Neuroscientist*, 27(6) 604–619
<https://doi.org/10.1177/1073858420960111>
- Rhoads, S. A., Ryan, R. M., & **Marsh, A. A.** (2021). Global variation in subjective well-being predicts seven forms of altruism. *Psychological Science*, 32(8), 1247-1261.
- O’Connell, K., **Marsh, A. A.**, Edwards, D. F., Dromerick, A. W., Seydell-Greenwald, A. (2021). Emotion recognition impairments and social well-being following right-hemisphere stroke. *Neuropsychological Rehabilitation* (2) 1-19. <https://doi.org/10.1080/09602011.2021.1888756>
- 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. <https://doi.org/10.1098/rspb.2020.2651>
- Tierney, W., Hardy, J. H., III, Ebersole, C. R., Viganola, D., Clemente, E. G., Gordon, M., Hoogeveen, S., Haaf, J., Dreber, A., Johannesson, M., Pfeiffer, T., Huang, J. L., Vaughn, L. A., DeMarree, K.G., Igou, E., Chapman, H., Gantman, A., Vanaman, M., Wylie, J., Storbeck J., Andreychik, M. R., McPhetres, J., **Culture and Work Morality Forecasting Collaboration**, & Uhlmann, E. L. (2021). A creative destruction approach to replication: Implicit work and sex morality across cultures. *Journal of Experimental Social Psychology*, 93, 104060. (Member of Forecasting Collaboration). <https://doi.org/10.1016/j.jesp.2020.104060>
- O’Connell, K., Berluti, K., Rhoads, S. A., & **Marsh, A. A.** (2021). Reduced social distancing early in the COVID-19 pandemic is associated with antisocial behaviors in an online United States sample. *PLoS One*, 16(1): e0244974. <https://doi.org/10.1371/journal.pone.0244974>
- Cardinale, E. M., Ryan, R. M., & **Marsh, A. A.** (2021). Maladaptive fearlessness: an examination of the association between subjective fear experience and antisocial behaviors linked with callous unemotional traits. *Journal of Personality Disorders*, 34, 486.
<https://doi.org/10.1521/pedi.2020.34.486>
- 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(e12) 1–18.
<https://doi.org/10.1017/pen.2020.13>
- Brethel-Haurwitz, K. M., Stoianova, M. & **Marsh, A. A.** (2020). Empathic emotion regulation in prosocial behavior and altruism. *Cognition & Emotion*, 34(8), 1532-1548.
<https://doi.org/10.1080/02699931.2020.1783517>
- Vekaria, K. M., O'Connell, K., Rhoads, S. A., 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 (BNST) corresponds to everyday helping. *Cortex*, 127, 67-77.
<https://doi.org/10.1016/j.cortex.2020.02.001>
- Berluti, K., O'Connell, K., 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, 628–649. <https://doi.org/10.1521/pepi.2020.34.5.628>
- Vekaria, K. M., Hammell, A. E., Vincent, L., Smith, M., Rogers, T., Switzer, G. E. & **Marsh, A. A.** (2020). The role of prospection in altruistic bone marrow donation decisions. *Health Psychology*, 39, 316-324. <https://doi.org/10.1037/hea0000819>
- Cardinale, E. M. & **Marsh, A. A.** (2020). The reliability and validity of the Inventory of Callous Unemotional Traits: A meta-analytic review. *Assessment*, 27, 57-71.
<https://doi.org/10.1177/1073191117747392>
- Marsh, A. A.**, Rhoads, S. A., & Ryan, R. M. (2019). A multi-semester classroom demonstration yields evidence in support of the facial feedback effect. *Emotion*, 19, 1500-1504.
<https://doi.org/10.1037/emo0000532>
- O'Connell, K., Brethel-Haurwitz, K. M., Rhoads, S. A., 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. (2019) *Scientific Reports*, 9, 10774. | <https://doi.org/10.1038/s41598-019-47196-3>
- 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, 1449-1458. <https://doi.org/10.1017/S0033291718001927>
- Marsh, A.A.** (2019). The caring continuum: Evolved hormonal and proximal mechanisms explain prosocial and antisocial extremes. *Annual Review of Psychology*, 70, 347-371.
<https://doi.org/10.1146/annurev-psych-010418-103010>
- Brethel-Haurwitz, K. M., Cardinale, E. M., Vekaria, K. M., Robertson, E. L., Walitt, B., VanMeter, J. W., & **Marsh, A. A.** (2018). Extraordinary altruists exhibit enhanced self-other overlap in neural responses to distress. *Psychological Science*, 29, 1631–1641.
<https://doi.org/10.1177/0956797618779590>
- Commentary:**
- Crockett, M. J., & Lockwood, P. L. (2018). Extraordinary altruism and transcending the self. In press, *Trends in Cognitive Sciences*.
- Marsh, A.A.** (2018). The neuroscience of empathy. *Current Opinion in Behavioral Sciences*, 19, 110-115. <https://doi.org/10.1016/j.cobeha.2017.12.016>
- Cardinale, E. M., Breeden, A. L., Robertson, E. L., Lozier, L. M., VanMeter, J. W., & **Marsh, A. A.** (2018). Externalizing behavior severity in youths with callous-unemotional traits corresponds to patterns of amygdala activity and connectivity during judgments of causing fear. *Development & Psychopathology*, 30, 191-201. <https://doi.org/10.1017/S0033291718001927>
- Brethel-Haurwitz, K. M., O'Connell, K., Cardinale, E. M., Stoianova, M., Stoycos, S. A., Leah 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: 20171731. <http://dx.doi.org/10.1098/rspb.2017.1731>

Vekaria, K. M., Brethel-Haurwitz, K. M., Cardinale, E. M., Stoycos, S. A., **Marsh, A. A.** (2017). Social discounting and costly altruism: Examining motivations for extraordinary generosity. *Nature Human Behaviour*, 1, 0100. <https://doi.org/10.1038/s41562-017-0100>

Commentaries:

Kalenscher, T. (2017). Love thy stranger as thyself. *Nature Human Behaviour*, 1, 0108.

Carney, E. (2017). The psychology of extraordinary altruism. *Nature Reviews Nephrology*, 13, 38.

Vieira, J. B., Tavares, T. P., **Marsh, A. A.**, & Mitchell, D. G. V. (2017). Emotion and personal space: neural correlates of approach-avoidance tendencies to different facial expressions as a function of coldhearted psychopathic traits. *Human Brain Mapping*, 38, 1492-1506. <https://doi.org/10.1002/hbm.23467>

Marsh, A. A. (2016). Understanding amygdala responsiveness to fearful expressions through the lens of psychopathy and altruism. *Journal of Neuroscience Research*, 94, 513-525. <https://doi.org/10.1002/jnr.23668>

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. <https://doi.org/10.1038/srep18974>

Marsh, A. A. (2016). Neural, cognitive, and evolutionary foundations of human altruism. *WIREs Cognitive Science*, 7, 59-71. <https://doi.org/10.1002/wcs.1377>

Vieira, J. M., Ferreira-Santos, F., Almeida, P., Barbosa, F., Marques-Teixeira, J., & **Marsh, A. A.** (2015). Psychopathic traits are associated with cortical and subcortical volume alterations in healthy individuals. *Social, Cognitive, & Affective Neuroscience*, 10, 1693-704. <https://doi.org/10.1093/scan/nsv062>

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. <https://doi.org/10.1017/S0033291715000987>

Markowitz, A. J., Ryan, R. M., & **Marsh, A. A.** (2015). Neighborhood income and the expression of callous-unemotional traits. *European Child & Adolescent Psychiatry*, 24, 1103-1118. <https://doi.org/10.1007/s00787-014-0663-3>

Cardinale, E. M. & **Marsh, A. A.** (2015). Impact of psychopathy on moral judgments about causing fear and physical harm. *PLoS ONE*, 10, e0125708. <https://doi.org/10.1371/journal.pone.0125708>

Brewer, R., **Marsh, A. A.**, Catmur, C., Cardinale, E. M., Stoycos, S. A., Cook, R., & Bird, G. (2015). The impact of Autism Spectrum Disorder and alexithymia on judgments of moral acceptability. *Journal of Abnormal Psychology*, 124, 589-595. <https://doi.org/10.1037/abn0000076>

Hammer, J. L. & **Marsh, A. A.** (2015). Why do fearful facial expressions elicit behavioral approach? Evidence from a combined approach-avoidance implicit association test. *Emotion*, 15, 223-231. <https://doi.org/10.1037/emo0000054>

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, 15036-41. <https://doi.org/10.1073/pnas.1408440111>

* Awarded the Cozzarelli Prize for scientific excellence and originality

Commentary:

Greene, J. D. (2014). From fear recognition to kidney donors. *Proceedings of the National Academy of Sciences*, 111, 14966-7.

Lozier, L. M., VanMeter, J., & **Marsh, A. A.** (2014). Impairments in facial affect recognition associated with autism spectrum disorders: A meta-analysis. *Development & Psychopathology*, 26, 933-45. <https://doi.org/10.1017/S0954579414000479>

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. In T. Lombrozo, J. Knobe, & S. Nichols (Eds.) *Oxford Studies in Experimental Philosophy*. Oxford, UK: Oxford University Press. pp. 131-151. <https://doi.org/10.1093/acprof:oso/9780198718765.001.0001>

Vieira, J. B., Almeida, P. R., Ferreira-Santos, F., Barbosa, F., Marques-Teixeira, J., & **Marsh, A. A.** (2014). Distinct neural activation patterns underlie economic decisions in high and low psychopathy scorers. *Social Cognitive & Affective Neuroscience*, 9, 1099-1107. <https://doi.org/10.1093/scan/nst093>

* Featured manuscript of the *Society for the Scientific Study of Psychopathy*

Marsh, A. A., Cardinale, E. M., Chentsova-Dutton, Y. E., Grossman, M. R., & Krumpos, K. A. (2014). Power plays: Expressive mimicry of valid agonistic cues. *Social & Personality Psychological Science*, 5, 684-690. <https://doi.org/10.1177/1948550613519684>

Lozier, L. M., Cardinale, E. M., VanMeter, J., & **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*, 71, 627-636. <https://doi.org/10.1001/jamapsychiatry.2013.454>

* Selected as a featured manuscript by the *Society for the Scientific Study of Psychopathy*

Brethel-Haurwitz, K. M. & **Marsh, A. A.** (2014). Geographical differences in subjective well-being predict extraordinary altruism. *Psychological Science*, 25, 762-71. <https://doi.org/10.1177/0956797613516148>

Marsh, A. A., & Cardinale, E. M. (2014). When psychopathy impairs moral judgments: Neural responses during judgments about causing fear. *Social Cognitive & Affective Neuroscience*, 9, 3-11. <https://doi.org/10.1177/0956797613516148>

Vieira, J. B. & **Marsh, A. A.** (2014). Don't stand so close to me: Psychopathy and the regulation of interpersonal distance. *Frontiers in Human Neuroscience*, 7, 907. <https://doi.org/10.3389/fnhum.2013.00907>

Marsh, A. A., Finger, E. C., Fowler, K. A., Adalio, C. J., Jurkowitz, I. T. N., Schechter, J. C., Pine, D. S., Decety, J., & Blair, R. J. R. (2013). Empathic responsiveness in amygdala and anterior cingulate cortex in youths with psychopathic traits. *Journal of Child Psychology & Psychiatry*, 54, 900-910. <https://doi.org/10.1111/jcpp.12063>

Thomas, L. A., Kim, P., Bones, B. L., Hinton, K., Milch, H. S., Lindstrom, K., Reynolds, R. C., Adleman, N., **Marsh, A. A.**, Blair, R. J. R., Pine, D. S., & Leibenluft, E. (2013). Elevated amygdala responses to emotional faces in youths with chronic irritability or bipolar disorder. *Neuroimage: Clinical*, 2, 637-645. <http://dx.doi.org/10.1016/j.nicl.2013.04.007>

Marsh, A. A. (2013). What can we learn about emotion from studying psychopathy? *Frontiers in Human Neuroscience*, 7, 181. <https://doi.org/10.3389/fnhum.2013.00181>

Marsh, A. A., Yu, H. H., Pine, D. S., Gorodetsky, E. K., Goldman, D., Blair, R. J. R. (2012). The influence of oxytocin administration on responses to infant faces and potential moderation by OXTR genotype. *Psychopharmacology*, 24, 469-476. <http://dx.doi.org/10.1007/s00213-012-2775-0>

Marsh, A. A., & Cardinale, E. M. (2012). Psychopathy and fear: Specific impairments in judging behaviors that frighten others. *Emotion*, 12, 892-898. <https://doi.org/10.1037/a0026260>

Finger, E. C., **Marsh, A. A.**, Blair, K. S., Majestic, C., Evangelou, I., Gupta, K., Schneider, M. R., Sims, C. S., Pope, K., Fowler, K., Sinclair, S., Tovar-Moll, F., Pine, D. S., & Blair, R. J. R. (2012). Impaired functional but preserved structural connectivity in limbic white matter tracts in youths with Conduct Disorder or Oppositional Defiant Disorder plus psychopathic traits. *Psychiatry Research: Neuroimaging*, 202, 239-44. <http://dx.doi.org/10.1016/j.psychresns.2011.11.002>

White, S. F., **Marsh, A. A.**, Fowler, K. A., Schechter, J. C., Adalio, C., Pope, K., Sinclair, S., Pine, D. S., & Blair, R. J. R. (2012). Reduced amygdala response in youths with disruptive behavior disorders and psychopathic traits: decreased emotional response versus increased top-down attention to nonemotional features. *American Journal of Psychiatry*, *169*, 750-758. <http://dx.doi.org/10.1176/appi.ajp.2012.11081270>

Marsh, A. A., Finger, E. C., Fowler, K. A., Jurkowitz, I. N., Schechter, J. C., Yu, H. H., Pine, D. S., & Blair, R. J. R. (2011). Reduced amygdala-orbitofrontal connectivity during moral judgments in youths with disruptive behavior disorders and psychopathic traits. *Psychiatry Research: Neuroimaging*, *194*, 279-286. <http://dx.doi.org/10.1016/j.psychresns.2011.07.008>

Marsh, A. A., Crowe, S. L., Yu, H. H., Gorodetsky, E. K., Goldman, D., & Blair, R. J. R. (2011). Serotonin transporter genotype (5-HTTLPR) predicts utilitarian moral judgments. *PLoS ONE*, *6*, e25148. <https://doi.org/10.1371/journal.pone.0025148>

Marsh, A. A., Finger, E. C., Schechter, J. C., Jurkowitz, I. T. N., Reid, M. E., & Blair, R. J. R. (2011). Adolescents with psychopathic traits report reductions in physiological responses to fear. *Journal of Child Psychology & Psychiatry*, *52*, 834-841. <https://doi.org/10.1111/j.1469-7610.2010.02353.x>

Commentary:

Fairchild, G. (2013). I don't second that emotion: subjective experience of fear in adolescents with psychopathic traits – reflections on Marsh et al. (2011). *Journal of Child Psychology & Psychiatry*, *52*, 842-843.

Finger, E. C., **Marsh, A. A.**, Blair, K. S., Reid, M. E., Sims, C., Ng, P., Pine, D. S., Blair, R. J. R. (2011). Disrupted reinforcement signaling in orbital frontal cortex and caudate in youths with Conduct Disorder/Oppositional Defiant Disorder and high psychopathic traits. *American Journal of Psychiatry*, *168*, 152-162. <https://doi.org/10.1176/appi.ajp.2010.10010129>

Marsh, A. A., Kozak, M. N., Wegner, D. M., Reid, M. E., Yu, H. H., & Blair, R. J. R. (2010). The neural substrates of action identification. *Social Cognitive & Affective Neuroscience*, *5*, 392-403. <https://doi.org/10.1093/scan/nsq004>

Marsh, A. A., Yu, H. H., Pine, D. S., & Blair, R. J. R. (2010). Oxytocin improves specific sensitivity to positive facial expressions. *Psychopharmacology*, *209*, 225-232. <https://doi.org/10.1007/s00213-010-1780-4>

Marsh, A. A., Yu, H. H., Schechter, J. C., & Blair, R. J. R. (2009). Larger than life: Humans' nonverbal status cues alter perceived size. *PLoS ONE*, *4*, e5707. <https://doi.org/10.1371/journal.pone.0005707>

Marsh, A. A., Blair, K. S., Jones, M. M., Soliman, N. & Blair, R. J. R. (2009) Dominance and submission: The ventrolateral prefrontal cortex and responses to status cues. *Journal of Cognitive Neuroscience*, *21*, 713-724. <https://doi.org/10.1162/jocn.2009.21052>

Marsh, A. A., Finger, E. C., Mitchell, D. G. V., Reid, M. E., Sims, C., Kosson, D. S., Towbin, K. E., Leibenluft, E., Pine, D. S., & Blair, R. J. R. (2008). Reduced amygdala response to fearful expressions in children and adolescents with callous-unemotional traits and disruptive behavior disorders. *American Journal of Psychiatry*, *165*, 712-20. <https://doi.org/10.1176/appi.ajp.2007.07071145>

Commentary:

Dolan, M. (2013). Neurobiological disturbances in callous-unemotional youths. *American Journal of Psychiatry*, *165*, 668-670.

Finger, E. C., **Marsh, A. A.**, Mitchell, D. G. V., Reid, M. E., Sims, C., Budhani, S., Kosson, D. S., Chen, G., Towbin, K. E., Leibenluft, E., Pine, D. S., & Blair, R. J. R. (2008). Abnormal ventromedial prefrontal cortex function in children with psychopathic traits during reversal learning. *Archives of General Psychiatry*, *65*, 586-94. <https://doi.org/10.1001/archpsyc.65.5.586>

- Marsh, A. A.** & Blair, R. J. R. (2008). Deficits in facial affect recognition among antisocial populations: a meta-analysis. *Neuroscience & Biobehavioral Reviews*, 32, 454-465. <https://doi.org/10.1016/j.neubiorev.2007.08.003>
- Blair, K. S., Finger, E., **Marsh, A. A.**, Morton, J., Mondillo, K., Buzas, B., Kamel, N., Goldman, D., Drevets, W. C., & Blair, R. J. R. (2008). The role of 5-HTTLPR in choosing the lesser of two evils, the better of two goods: Examining the impact of 5-HTTLPR genotype and tryptophan depletion in object choice. *Psychopharmacology*, 196, 29-38. <https://doi.org/10.1007/s00213-007-0920-y>
- Marsh, A. A.**, Kozak, M. N., & Ambady, N. (2007). Accurate identification of fear facial expressions predicts prosocial behavior. *Emotion*, 7, 239-51. <https://doi.org/10.1037/1528-3542.7.2.239>
- Marsh, A. A.**, Elfenbein, H. A., & Ambady, N. (2007). Separated by a common language: Nonverbal accents and cultural stereotypes about Australians and Americans. *Journal of Cross-Cultural Psychology*, 38, 284-301. <https://doi.org/10.1177/0022022107300275>
- Marsh, A. A.**, Blair, K. S., Vythilingam, M., Busis, S. & Blair, R. J. R. (2007). Response options and expectations of reward in decision-making: The differential roles of dorsal and rostral anterior cingulate cortex. *NeuroImage*, 35, 979-88. <https://doi.org/10.1016/j.neuroimage.2006.11.044>
- Budhani, S., **Marsh, A. A.**, Pine, D. S., & Blair, R. J. R. (2007). Neural correlates of response reversal: Considering acquisition. *NeuroImage*, 34, 1754-65. <https://doi.org/10.1016/j.neuroimage.2006.08.060>
- Finger, E., **Marsh, A. A.**, Buzas, B., Kamel, N., Richell, R., Vythilingam, M., Pine, D. S., Goldman, D., & Blair, R. J. R. (2007). The impact of tryptophan depletion and 5-HTTLPR genotype on passive avoidance and response reversal instrumental learning tasks. *Neuropsychopharmacology*, 32, 206-15. <https://doi.org/10.1038/sj.npp.1301182>
- Marsh, A. A.** & Ambady, N. (2007). The influence of the fear facial expression on prosocial responding. *Cognition & Emotion*, 21, 225-47. <https://doi.org/10.1080/02699930600652234>
- Blair, K. S., **Marsh, A. A.**, Morton, J., Vythilingam, M., Mondillo, K., Jones, M. M., Pine, D. S., Drevets, W.C., & Blair, R. J. R. (2006). Choosing the lesser of two evils, the better of two goods: Specifying the roles of ventromedial prefrontal cortex and dorsal anterior cingulate in object choice. *Journal of Neuroscience*, 26, 11379-86. <https://doi.org/10.1523/JNEUROSCI.1640-06.2006>
- Marsh, A. A.**, Finger, E., Buzas, B., Kamel, N., Richell, R., Vythilingam, M., Pine, D. S., Goldman, D., & Blair, R. J. R. (2006). Impaired recognition of fear facial expressions in 5-HTTLPR S-polymorphism carriers following tryptophan depletion. *Psychopharmacology* 189, 387-94. <https://doi.org/10.1007/s00213-006-0581-2>
- Finger, E., **Marsh, A. A.**, Mitchell, D. G. V., & Blair, R. J. R. (2006). Caught in the act: The impact of audience on the neural response to morally and socially inappropriate behavior. *NeuroImage*, 33, 414-21. <https://doi.org/10.1016/j.neuroimage.2006.06.011>
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Books

Marsh, A. A. (2017). *The Fear Factor: How One Emotion Connects Altruists, Psychopaths, and Everyone In-Between*. New York: Hachette.

Awards: SPSP Book Prize for the Promotion of Social and Personality Science

Translations: Chinese, French, Japanese, Korean, Romanian, Russian, UK English

Book Chapters

O’Connell, K., Rhoads, S. A., & **Marsh, A. A.** (2021) Fear: An evolutionary perspective on its biological, behavioral, and communicative features In L. Al-Shawaf & T. Shackelford (Eds.) *The Oxford Handbook of Evolution and the Emotions*. Oxford, UK: Oxford University Press.

K O’Connell, SA Rhoads, AA Marsh

Wygant, D. B., Pardini, D. A., **Marsh, A. A.,** & Patrick, C. J. (2019). Understanding psychopathy: Where we are, where we can go. In C. J. Patrick (Ed.), *Handbook of Psychopathy* (2nd ed.). New York: Guilford.

Marsh, A. A. (2018). Alloparenting. In J. Brockman (Ed.) *This Idea is Brilliant (Edge Question Series)*. New York: Harper Perennial, pp. 320-321.

Marsh, A. A. (2017). Neuroprediction. In J. Brockman (Ed.) *Know this: Today’s most interesting and important scientific ideas, discoveries, and developments. (Edge Question Series)*. New York: Harper Perennial.

Lozier, L., Brethel-Haurwitz, K., & **Marsh, A. A.** (2016). Understanding empathy and psychopathy through cognitive neuroscience. In L. Freund, S. McCune, L. Esposito, N. R. Gee, & P. McCardle. *The Social Neuroscience of Human-Animal Interaction*. Washington, DC: APA Books.

Marsh, A. A. (2016). Extraordinary altruism: A cognitive neuroscience perspective. In J. Greene, I. Morrison, & M. Seligman (Eds.) *Positive Neuroscience*, New York: Oxford University Press (pp. 138-154).

Marsh, A. A. (2015). Caring machines. In J. Brockman (Ed.) *What do you think about machines that think? (Edge Question Series)*. New York: Harper Perennial, pp. 415-417.

Marsh, A. (2015). The distinction between antisociality and mental illness. In J. Brockman (Ed.) *This Idea Must Die: Scientific Theories That Are Blocking Progress (Edge Question Series)*. New York: Harper Perennial, pp. 503-505.

Marsh, A. A. (2014). Empathic and moral deficits in psychopathy. In H. Maibom (Ed.) *Empathy & Morality*. New York: Oxford University Press, pp. 138-154.

Marsh, A. A. (2011). Empathy and compassion: A cognitive neuroscience perspective. In J. Decety (Ed) *Empathy: From Bench to Bedside*. Cambridge, MA: MIT Press, pp. 191-206.

Blair, R. J. R., Finger, E. C., & **Marsh, A. A.** (2009) The development and neural bases of psychopathy. In M. de Haan & M. R. Gunnar (Eds) *Handbook of Developmental Social Neuroscience*. New York: Guilford, pp. 419-434.

Elfenbein, H. A., **Marsh, A. A.,** & Ambady, N. A. (2002). Emotional intelligence and the recognition of emotion from facial expressions. In L. Feldman-Barrett & P. Salovey (Eds.) *The*

Wisdom in Feeling: Psychological Processes in Emotional Intelligence. New York: Guilford. pp. 37-59.

Commentaries

- Marsh, A. A.** (2021). Getting our affect together: Shared representations as the core of empathy. In press, *Emotion Review*.
- Marsh, A. A.** (2017). The benefits of trepidation. *The Scientist*, 31, 71.
- Marsh, A. A.** (2017). Commentary: The role of adolescence in geographic variation in violent aggression. *Behavioral & Brain Sciences*, 40, e90.
- Marsh, A.** (2013). Commentary: When viewing empathy-eliciting scenarios, incarcerated men with high psychopathy display differences in brain activity compared with those with low psychopathy. *Evidence Based Mental Health*, 16, 96.

Published Abstracts and Conference Presentations

- Marsh, A. A. (2021). Closing address. Invited address, The Social and Affective Neuroscience Society annual meeting (2021)
- Marsh, A. A. (2021). Global perspectives on Social and Affective Neuroscience. Panel chair and invited address, The Social and Affective Neuroscience Society annual meeting (2021)
- Amormino, P., Rhoads, S. A., & Marsh, A. A. (2021). Ingroup loyalty vs. impartiality: How moral motives affect altruistic decision making in social discounting tasks. Talk, Society for Philosophy and Psychology annual meeting (virtual)
- Berluti, K., Kasparek, S., McLaughlin, K. & Marsh, A. A. (2021). Biological Predictors of Worsening Callous-Unemotional Traits in Youth. Flash talk, The Society for Personality and Social Psychology Early Career Event (virtual)
- Berluti, 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. (2021). Disrupted Multi-Voxel Representations of Vicarious Pain in Psychopathy. Flash talk, Social and Affective Neuroscience Society annual meeting (virtual)
- Rhoads, S. A., Vekaria, K. M., O'Connell, K., Elizabeth, H. S., Rand D. G., Kozak Williams, M. N., & Marsh, A. A. (2021). Unselfish traits and social decision-making patterns characterize six populations of real-world extraordinary altruists. Flash talk, Association for Psychological Science annual meeting (virtual)
- Rhoads, S. A., Vekaria, K. M., O'Connell, K. M., Elizabeth, H. S., Rand, D. G., Kozak-Williams, M. N. (2021). Unselfish traits and decision-making patterns characterize six populations of real-world extraordinary altruists. Flash talk, Social and Affective Neuroscience Society (virtual)
- Seydell-Greenwald, A., O'Connell, K., Marsh, A. A., Dromerick, A. W. (2021). Emotional prosody recognition after right-hemisphere stroke – an fMRI study of functional brain reorganization. Poster presentation, American Society of Neuroradiology (virtual)
- Ploe, M. L., Marsh, A. A., & Gruber, J. (2021). Psychopathy and associations with impaired reward processing and social network connections in emerging adults. Poster presentation, Society for Affective Science (virtual).
- Goyal, S. & Marsh, A. A. (2021) Testing the Conservation of Six Emotional Expressions Across Countries Using Reverse Correlation. Poster presentation, Society for Affective Science (virtual)
- Rhoads, S. A., O'Connell, K., Berluti, K., Savitz, H., & Marsh, A. A. (2021). Social discounting in extraordinary, real-world altruists and individuals who completed Metta meditation training. Poster, Social and Affective Neuroscience Society meeting, Santa Barbara, California (conference postponed due to COVID-19).

- Rhoads, S. A., Vekaria, K. M., Savitz, H., Rand D. G., & Marsh, A. A. (2020). Understanding costly altruism for close and distant others: Variations in social discounting across six groups of real-world altruists. Poster presentation, Society for Personality and Social Psychology meeting and Social Cognition Pre-conference, New Orleans, LA.
- O'Connell, K., Greenwald, A., Marsh, A.A. (2020) Emotion recognition accuracy and social outcomes after right-hemisphere stroke. Poster accepted for Social and Affective Neuroscience Society (conference postponed due to COVID-19).
- Berluti, 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., & Abigail A. Marsh (February, 2020). Disrupted Multi-Voxel Representations of Vicarious Pain in Psychopathy. Oral presentation, The Society for Personality and Social Psychology Annual Convention. New Orleans, LA.
- Adams KO, O'Connell KM, Brethel-Haurwitz KM, Rhoads SA, Cardinale EM, Vekaria KM, Robertson EL, Walitt B, VanMeter JW, Marsh AA (2019). Poster presentation, Disrupted multi-voxel representations of vicarious pain in psychopathy. Association for Psychological Science, Washington DC.
- Rhoads SA, Rocha-Hidalgo J, Hassanzadeh S, VanMeter JW, Marsh AA (2019). Multivariate cross-classification on preliminary data suggests a role of posterior cingulate cortex across self- and meta-referential processing. Poster presentation, Social and Affective Neuroscience Society, Miami, FL.
- O'Connell KM, Greenwald A, Marsh AA (2019). Impaired emotion recognition accuracy after right-hemisphere stroke. Poster presentation, Association for Clinical and Translational Science, Washington, DC.
- O'Connell K, Padgett B, Walsh M, Marsh AA (2018). Avoiding a stranger's loss: Modeling the influence of affect on socially-relevant behavior. Poster presentation, Social and Affective Neuroscience Society 2018. Brooklyn, NY.
- Brethel-Haurwitz KM, Stoianova M, Marsh AA (2019). Varying effects of empathic emotion regulation in prosocial behavior and altruism. Poster presentation, Society for Personality and Social Psychology, Portland, OR.
- Adams K, O'Connell KM, Brethel-Haurwitz KM, Rhoads SA, Cardinale EM, Vekaria KM, Robertson EL, Walitt B, VanMeter JW, Marsh AA (2019). Disrupted multi-voxel representations of vicarious pain in psychopathy. Oral presentation, Society for the Scientific Study of Psychopathy, Las Vegas, NV.
- Marsh AA (2019, Invited Keynote) The altruistic brain. Roots of Empathy, Toronto, Canada.
- Marsh AA (2019, Invited Address). The social neuroscience of altruism. Association for Psychological Science, Washington, DC
- Marsh AA (2019, Invited Address) The altruistic Brain. Learning and the Brain, San Francisco, CA
- O'Connell KM, Brethel-Haurwitz KM, Rhoads, SA, Cardinale EM, Vekaria KM, Robertson EL, VanMeter JW, Marsh AA (2019). Increased similarity of neural responses to experienced and empathic distress in costly altruism. Oral presentation, Organization for Human Brain Mapping, Rome, Italy.
- Brethel-Haurwitz KM, Marsh AA (2019). Super altruists: Perceptions and neurocognitive characteristics of non-directed kidney donors. Oral presentation, Association for Psychological Science, Washington, DC.
- O'Connell K, Padgett B, Walsh M, Marsh AA (2018) Avoiding a stranger's loss: Modeling the influence of affect on socially-relevant behavior. Poster presentation, Social and Affective Neuroscience Society. Brooklyn, NY.
- O'Connell K, Padgett B, Marsh AA (2018). The influence of affect on behavior: Using computational modeling to improve the identification of clinically-relevant social deficits. Poster presentation, Association for Clinical and Translational Science Meeting. Washington, DC.

Rhoads SA, O'Connell K, Cardinale EM, Palmer AL, Marsh AA (2018). Which fear? Decoding the neural responses involved during the interpretation of fearful expressions in youths with callous-unemotional traits and conduct problems. Poster presentation, Social and Affective Neuroscience Society meeting, New York, NY.

Rhoads SA, O'Connell K, Cardinale EM, Palmer AL, Marsh AA (2018). Which fear? Decoding the neural responses involved during the interpretation of fearful expressions in youths with callous-unemotional traits and conduct problems. Poster presentation, Society for Affective Science, Los Angeles, CA.

Vekaria K, Lynch C, Brethel-Haurwitz KM, Cardinale EM, Marsh AA (2018). Examining intrinsic functional connectivity of the amygdala with cortical networks in real-world altruists. Poster presentation, Social and Affective Neuroscience Society, New York, New York.

Marsh, A. A. (2017). Linking empathic simulation of pain experience & pain anticipation to extraordinary acts of altruism. Oral presentation, Annual meeting of the Society for Social Neuroscience, Washington, DC.

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. Oral presentation, Society for the Scientific Study of Psychopathy, Antwerp, Belgium

O'Connell, K. M., Brethel-Haurwitz, K. M., Cardinale, E. M., Vekaria, K. M., Robertson, E., Meena, L., VanMeter, J. W., & Marsh, A. A. (2017). Enhanced neural similarity of fear perception and fear experience in extraordinary altruists. Poster presentation, Social and Affective Neuroscience Society, Los Angeles, CA.

Vekaria, K. M., Lynch, C. J., Brethel-Haurwitz, K. M., Cardinale, E. M., & Marsh, A. A. (2017). Resting state functional connectivity and costly altruism: A graph theoretical approach. Poster presentation, Social and Affective Neuroscience Society, Los Angeles, CA.

Vieira, J.B., Tavares, T.P., Marsh, A.A., & Mitchell, D.G.V. (2016). Emotion and personal space: fMRI correlates of approach-avoidance tendencies to distinct facial expressions. Poster presentation, Social and Affective Neuroscience Society, New York, NY.

Brethel-Haurwitz, K. M., Cardinale, E. M., Vekaria, K. M., Robertson, E. L., VanMeter, J. W., & Marsh, A. A. (2017). Comparison of empathy for pain and empathy for fear in anterior insula in extraordinary altruists. Poster presentation, Social and Affective Neuroscience Society, Los Angeles, CA.

** Awarded student poster prize*

Brethel-Haurwitz, K. M., Stoianova, M., & Marsh, A. A. (2017). Empathic emotion regulation influences prosocial decision-making. Oral presentation, Society for Affective Science, Boston, MA.

Vekaria, K.M., Brethel-Haurwitz, K. M., Cardinale, E. M., & Marsh, A. A (2016). Donating a kidney to a stranger: Social discounting and costly altruism. Poster presentation, Society for Judgment and Decision-Making, Boston, MA.

**Awarded 1st place, Graduate Student Poster Awards*

Vekaria, K. M., Hammel, A. E., Cardinale, E. M., & Marsh, A. A. (2016). Recognition accuracy of emotionally evocative statements predicts empathic concern. Poster presentation, Society for Personality & Social Psychology, San Diego, CA.

Brethel-Haurwitz, K. M., Marsh, A. A., Cardinale, E. M., Stoycos, S. M. (2016). Neural and psychological correlates of extreme altruism. Oral presentation, Society for Personality & Social Psychology, San Diego, CA.

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. Annual Meeting of the Society for Personality & Social Psychology, San Diego, CA.

- Marsh, A. A. & Brethel-Haurwitz, K. M. (2016). The relationship between extraordinary altruism and subjective well-being. Oral presentation, Society for Personality & Social Psychology, San Diego, CA.
- 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 presentation, Annual Meeting of the Social & Affective Neuroscience Society, New York, NY
- 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. Poster presentation, Annual Meeting of the Society for Philosophy and Psychology, Austin, TX.
- 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 presentation, Society for the Scientific Study of Psychopathy, Chicago, IL.
- Marsh, A. A. (2015). The role of prospective altruism in stem-cell donation. Templeton Prospection Awards Retreat, Philadelphia, PA
- Brethel-Haurwitz, K. M., Cardinale, E. M., Stoycos, S. A., VanMeter, J.W., Marsh, A. A. (2015). Resting state functional connectivity in extraordinary altruists. Poster presentation, Social and Affective Neuroscience Society, Boston, MA.
- Cardinale, E. M., Breeden, A. M., 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 presentation, Social and Affective Neuroscience Society, Boston, MA.
- Brethel-Haurwitz, K. M., Cardinale, E. M., Stoycos, S. A., VanMeter, J. W., & Marsh, A. A. (2014). Diffusion Tensor Imaging of Extraordinary Altruists: Differences in Fractional Anisotropy in Non-Directed Living Kidney Donor. Poster presentation, Society for Neuroscience, Washington, DC.
- Lozier, L. M., Cardinale, E. M., VanMeter, J. W., & Marsh, A. A. (2014). Amygdala responses to fear mediate the relationship between callous-unemotional traits and proactive aggression among children with conduct problems. Oral presentation, International Society for Research on Aggression, Atlanta, GA.
- 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 presentation, Social & Affective Neuroscience Society, Denver, CO.
- Brethel-Haurwitz, K. M., Stoycos, S. A., Cardinale, E. M., Lozier, L. M., VanMeter, J. W., & Marsh, A. A. (2014). Increased striatal activation in response to sympathy-inducing stimuli in extraordinary altruists. Poster presentation, Social & Affective Neuroscience Society, Denver, CO.
- Brethel-Haurwitz, K. M., Marsh, A. A. (2014). Multidimensional altruism: The development of a scale measuring reactive, proactive, and instrumental prosociality. *Society for Affective Science*, Bethesda, MD.
- Marsh, A. A., Brethel-Haurwitz, K. M., Stoycos, S. M. Cardinale, E. M., Robinson, P. & VanMeter, J. W. (2014). Empathy on a sliding scale--is extraordinary altruism the inverse of psychopathy? Oral presentation, Social & Affective Neuroscience Society, Denver, CO.
- Markowitz, A. J., Ryan, R. M., & Marsh, A. A. (2014). Neighborhood resources and the expression of callous-unemotional traits. Poster presentation, Society for Research on Adolescence, Austin, TX.
- Brethel-Haurwitz, K. M. & Marsh, A. A. (2014). Geographical differences in subjective well-being predict extraordinary altruism. Poster presentation, Society for Personality & Social Psychology, Austin, TX.

- Cardinale, E. M. & Marsh, A. A. (2014). Predicting aggression: Fearless temperament and callous unemotional traits as pathways to aggressive behavior. Poster presentation, Society for Personality & 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 presentation, Society for the Scientific Study of Psychopathy, Washington DC.
- Marsh, A. A. (2013) Responses to others' fear as predictors of empathic behaviors. Oral presentation, Association for Psychological Science, Washington, DC.
- Marsh, A. A. (2013) The dilemma of psychopathic morality. Oral presentation, Emotion Research Group, Toronto, ON
- Marsh, A. A. (2013) Neural correlates of extraordinary altruism. Positive Neuroscience Project, Wilmington, DE
- Marsh, A. A. (2013). Responses to others' fear as predictors of empathic behaviors. Oral presentation, Association for Psychological Science, Washington, DC.
- Vieira, J.B., Almeida, P.R., Ferreira-Santos, F.R., Barbosa, F., Marques-Teixeira, J., & Marsh, A. (2013). Distinct patterns of neural activation underlie economic decisions in individuals scoring high and low in psychopathic traits. Poster presentation, Society for the Scientific Study of Psychopathy, Washington DC.
- * Received Cheryl Wynn Hare Memorial Award*
- Vieira, J. B. & Marsh, A. A. (2013). Psychopathic traits predict preferred social distance in healthy individuals. Poster presentation, Association for Psychological Science, Washington, DC.
- * Received Student Research Award*
- Cardinale, E. M. & Marsh, A. A. (2013). No harm, no foul? Psychopathy impairs moral judgments about victim distress but not victim harm. Poster presentation, Association for Psychological Science, Washington, DC.
- Hammer, J. L. & Marsh, A. A. (2013). Psychopathy and the implicit association between fearful expressions and infantile Faces. Poster presentation, Association for Psychological Science, Washington, DC.
- Vieira, J. B., Ferreira-Santos, F., Almeida, P., Barbosa, F., Marques-Teixeira, J. & Marsh, A. A., (2012). Is altruistic punishment automatic? Electrophysiologic and neuroimaging evidence of the effects of cognitive load and psychopathy in the rejection of unfair offers in the
- Brethel, K. Cardinale, E. M., Lozier, L. M., VanMeter, J., & Marsh, A. A. (2012). Cognitive and neural correlates of altruism. Poster presentation, Society for Social Neuroscience, New Orleans, LA.
- Marsh, A. A. (2012). What can we learn about emotion by studying psychopathy? Invited oral presentation, Emotion Research Group, Half Moon Bay, CA.
- Vieira, J. B. Marques-Teixeira, F., Almeida, P. R., Ferreira-Santos, F., Barbosa, F., Marsh A., & Marques-Teixeira, J. (2012). Is "altruistic punishment" automatic? Effects of cognitive load on the rejection of unfair offers in the Ultimatum Game and on MFN amplitude. Poster presentation, Social and Affective Neuroscience, New York, NY.
- * Received Best Student Abstract Award: Human Research*
- Marsh, A. A. et al. (2012). Not feeling your pain: Neural responses to pain in self and others in youths with psychopathic traits. Poster presentation, Social and Affective Neuroscience, New York, NY
- Marsh, A. A. & Cardinale, E. M. (2012). Psychopathy, fear, and empathy: Specific impairments in judging behaviors that frighten others. Oral presentation Society for Personality & Social Psychology, San Diego, CA.

- Lozier, L. M., Cardinale E. M., Breeden, A., VanMeter, J., & Marsh, A. A. (2011). Differential patterns of amygdala activation predicted by conduct problems and callous-unemotional traits in children and adolescents. Poster presentation, Society for Neuroscience, Washington, DC.
- Marsh, A. A. (2011). Empathy, altruism, and aggression: A cognitive neuroscience perspective. Invited oral presentation, Social Neuroscience of Human-Animal Interactions (NICHD), Satellite Conference for the Society for Neuroscience, Washington, DC
- Marsh, A. A. (2011). Understanding extraordinary altruism: A cognitive neuroscience perspective. Oral presentation, Templeton Positive Neuroscience Symposium, Philadelphia, PA.
- Marsh, A. A. (2011). The Wegnerian window into the minds of others. Invited oral presentation, American Psychological Association, Washington, DC
- Marsh, A. A. (2011). Serotonin transporter genotype (SLC6A4) predicts moral judgments. Oral presentation, Association for Psychological Science, Washington, DC (*Symposium chair: Neurocognitive mechanisms underlying individual differences in moral judgments*).
- Marsh, A. A. (2010). Identifying neural correlates of altruism. Oral presentation, Templeton Positive Neuroscience Symposium, Philadelphia, PA.
- Marsh, A. A., (2010). Intranasal oxytocin improves specific recognition of positive facial expressions. Oral presentation, Society for Biological Psychiatry, New Orleans, LA.
- Marsh, A. A. (2009). Empathy and psychopathy. Invited oral presentation, Minary Psychology Conference hosted by Dartmouth College, Hanover, NH.
- Marsh, A. A. (2009). Neural and genetic correlates of action identification. Poster presentation, annual conference of the Cognitive Neuroscience Society, San Francisco, CA.
- Marsh, A. A. (2008). Neural correlates of action identification. Poster presentation, annual conference of Social and Affective Neuroscience, Boston, MA.
- Marsh, A. A. et al. (2007). Comparing neural responses to emotional expressions in children with callous and unemotional traits and ADHD. Oral presentation, annual conference of the Society for Biological Psychiatry, San Diego, CA.
- Marsh, A. A. et al. (2007). Separated by a common language. Oral presentation, annual conference of the Society for Personality & Social Psychology, Memphis, TN.
- Marsh, A. A., et al. (2007). Social anxiety disorder is associated with atypical neural responses to social hierarchy cues. Poster, annual conference of the Society of Biological Psychiatry, San Diego, CA.
- Finger, E. C., et al. (2007). Prefrontal and amygdala abnormalities during decision making in children with psychopathic traits. Poster, annual conference of the Society of Biological Psychiatry, San Diego, CA.
- Marsh, A. A., et al. (2007). Atypical patterns of cortical activation in healthy children and children with ADHD while viewing emotional facial expressions. Poster presentation, annual conference of the Cognitive Neuroscience Society, New York, NY.
- Marsh, A., et al. (2006). Reduced amygdala activity to fear facial expressions in children with psychopathy. Poster, annual conference of the Cognitive Neuroscience Society, San Francisco, CA.
- Finger, E., et al. (2006). Passive avoidance learning and response reversal during tryptophan depletion. Poster, annual conference of the Cognitive Neuroscience Society, San Francisco, CA.
- Marsh, A.A., et al. (2005). Selection amongst multiple motor response options: Interactions between anterior cingulate cortex and the caudate nucleus. Poster, annual conference of the Cognitive Neuroscience Society, New York, NY.
- Marsh, A. A., et al. (2004). Nonverbal accents: Cultural differences in the expressive behavior of Australians and Americans. Poster, annual conference of The International Society for Research on Emotion, New York, NY.
- Marsh, A. A., et al. (2003). Sex differences in facial expression recognition: status or strategy? Poster, annual conference of the Society for Personality & Social Psychology, Los Angeles, CA.

- Baird, A. A., et al. (2002). Frontal lobe function and the implicit association test. Poster, annual conference of the Cognitive Neuroscience Society, San Francisco, CA.
- Marsh, A. A., & Ambady, N. (2002). The faces of conflict: Responding to faces that differ in maturity or emotional expression. Poster, annual conference of the Society for Personality & Social Psychology, Savannah, GA.
- Marsh, A. A., et al. (2001). Race, Lies and Videotape: Lie detection across races. Poster, annual conference of The Society for Personality & Social Psychology, San Antonio, TX.
- Marsh, A. A., & Kleck, R. E. (2000). Why do fear and anger look the way they do? Form and social function in facial expressions. Poster, annual conference of The International Society for Research on Emotion, Québec City, QC.

FUNDING

External Research Grants

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|-------------|---|
| 2022 – 2024 | Principal Investigator , Mind & Life Institute PEACE Grant “Overcoming barriers to social connection and love” |
| 2018 – 2020 | Co-Investigator , National Institute of Child Health and Development (NICHD/NIH) R21 “Rehabilitation for emotion recognition impairments after stroke: building a scientific basis” |
| 2017 – 2021 | Principal Investigator , National Science Foundation, “Neural and cognitive bases of costly altruism toward strangers” |
| 2017 – 2018 | Principal Investigator , S&R Foundation Kuno Award for Applied Science for the Social Good |
| 2016 | Principal Investigator , Templeton Science of Prospecion Awards, Supplement, “The role of prospective altruism in stem cell donation” |
| 2014 – 2017 | Principal Investigator , John Templeton Foundation, “Examining the role of shared neural representations of pain-related affect in empathy and altruism” |
| 2014 – 2016 | Principal Investigator , Templeton Science of Prospecion Awards, “The role of prospective altruism in stem cell donation” |
| 2012 – 2017 | Subawardee , Defense Intelligence Agency (DIA) Indefinite Delivery Indefinite Quantity (IDIQ) contract HHM402-13-D-0004 |
| 2010 – 2013 | Principal Investigator , John Templeton Foundation “Identifying neural correlates of altruism” |
| 2010 – 2013 | Principal Investigator , National Institute of Child Health and Development (NICHD/NIH) R03 “Identifying the neural substrates of callous-unemotional traits in adolescents” |
| 2007 – 2008 | Principal Investigator , National Institute of Mental Health (NIMH/NIH) Richard J. Wyatt Memorial Fellowship “Dysfunction in amygdala and prefrontal cortex in children with callous-unemotional traits while engaged in a moral reasoning task” |
| 2003 – 2004 | Principal Investigator , National Institute of Mental Health (NIMH/NIH) Ruth R. Kirschstein National Research Service Award “Facial expression, social interactions, and status” |
| 1999 – 2002 | Principal Investigator , National Science Foundation Graduate Research Fellowship |

External Training Grants for Students

- 2020 **Research mentor**, Mistletoe Foundation fellowship for pre-doctoral training of Shawn Rhoads
- 2019 – 2021 **Research mentor**, NIH/NCCIH F31 AT010423-01A1 for pre-doctoral training of Katherine O’Connell
- 2018 – 2021 **Research mentor**, NSF Graduate Research Training Award for pre-doctoral training of Shawn Rhoads
- 2017 – 2020 **Research mentor**, GHUCCTS TL1 award for pre-doctoral training of Katherine O’Connell, “Computationally modeling the influence of affect on socially relevant behavior.”
- 2012 **Research co-mentor**, Foundation for Science and Technology (Portugal) Fellowship for Pre-doctoral Training of Joana Vieira (Visiting graduate student) “Social decision-making in psychopathy: A dual-process approach”

Internal Research Grants (total costs)

- 2021 **Principal Investigator**, Georgetown University Pilot Research Award “Investigating neurohormonal mechanisms underlying extraordinary human altruism” (\$20,000)
- 2019 **Co-principal Investigator**, Georgetown University Environment Initiative Award “Wildlife empathy: What psychological mechanisms promote human empathy for wildlife?” (\$18,000)
- 2017 **Co-principal Investigator**, Georgetown University Medical Center Dean’s Pilot Project Award, “Impaired emotion recognition after stroke—brain basis, impact on social support, and functional outcomes.” (\$50,000)
- 2017 **Principal Investigator**, Georgetown University Pilot Research Award “Development of a novel emotion recognition training intervention to reduce violence in high-risk youths” (\$20,000)
- 2017 **Principal Investigator**, Georgetown University Fall Competitive Grant-in-Aid “Evaluating the Interaction between Fear and Altruism” (\$2,000)
- 2013 **Principal Investigator**, Georgetown University Pilot Research Award “Identifying neurocognitive predictors of youth violence” (\$20,000)
- 2013 **Principal Investigator**, Georgetown University Fall Competitive Grant-in-Aid, “Measuring the emotional reactivity and regulation associated with empathy and prosocial behavior via a mobile psychophysiological sensor,” (\$1,099)
- 2012 **Principal Investigator**, Georgetown University Fall Competitive Grant-in-Aid “Investigating the neurocognitive correlates of fear in an ecologically valid setting” (\$770)
- 2011 **Principal Investigator**, Georgetown University Grants for Work on Complex Moral Problems “Understanding moral reasoning in exceptionally altruistic adults” (\$19,500)
- 2010 **Junior Faculty Research Fellowship**, Georgetown University (Fall semester)
- 2010 **Principal Investigator**, Georgetown University Summer Academic Grant “Neural imaging project for children with conduct problems” (\$9,500)
- 2009 **Principal Investigator**, Georgetown University Summer Academic Grant “Pilot data for disruptive children project” (\$9,500)

INVITED TALKS

- 2021 **Georgetown University Medical Center**. Department of Child Psychiatry, “The development of Conduct Disorder and aggression”
- 2021 **Emory University Contemplative Science Seminar**, “The caring continuum:

- Understanding the emergence of empathy and altruism" (virtual)
- 2021 **St. Elizabeth's Hospital** Juvenile Justice Series, "Empathy, psychopathy, and the development of aggression" (virtual)
- 2021 **The Neuropsychanalysis Foundation**, Dialogues on Aggression: An Urgent Interdisciplinary Forum (virtual) "Empathy, psychopathy, and the development of aggression"
- 2021 **National Kidney Donation Organization**, Advocates Conference (virtual), "Are donors different? Insight into the physiology and psychology of living donors"
- 2020 **Science & Ethics for Happiness and Well-Being**, Vatican City, Vatican (virtual)
- 2020 **Virginia Commonwealth University**, Psychology Colloquium (virtual) "The altruistic brain"
- 2020 **Georgetown University** College Board of Advisors, Washington, DC (virtual) "Empathy, altruism, and the impact of COVID"
- 2020 **Fundación INECO**, First Virtual Conference in Latin America on Neuroscience and Wellbeing, Buenos Aires, Argentina (virtual), "The geographic relationship between well-being and altruism"
- 2020 **Science & Ethics for Happiness and Well-Being**, Vatican City, Vatican (virtual)
- 2020 **Pennsylvania State University** Rock Ethics Institute, State College PA (virtual) "The altruistic brain"
- 2020 **New York University** Department of Psychology, New York, NY, "The altruistic brain"
- 2020 **Georgetown University** Development Office, Washington, DC, "The altruistic brain"
- 2020 **University of Wisconsin** Center for Healthy Minds, Madison, WI, "The altruistic brain"
- 2019 **Science & Ethics for Happiness and Well-Being**, Vatican City, Vatican (virtual) "Well-being and altruism"
- 2019 **National Academy of Science** Expert Meeting on Empathy & Compassion: *Leveraging Basic Research to Inform Intervention Development*, Washington, DC, "Understanding the relationship between empathy and care"
- 2019 **Duke University** Center for Cognitive Neuroscience symposium, Chapel Hill, NC, "The altruistic brain"
- 2019 **Boston College** Park Street Speaker Series, Boston, MA, "The altruistic brain: Making the choice to help"
- 2019 **Boston College** Psychology Colloquium, Boston, MA, "The altruistic brain"
- 2019 **Georgetown University** Medical Center Graduate Student Organization Student Research Day (keynote), Washington, DC, "Using science to understand human nature"
- 2019 **Science of Philanthropy Initiative**, Annual meeting (keynote) Chicago, IL, "The altruistic brain"
- 2019 **Association for Psychological Science** annual meeting, Washington, DC, "The social neuroscience of altruism"
- 2019 **Roots of Empathy** annual meeting, Toronto, ON, Canada, "The altruistic brain"
- 2019 **National Institute on Alcoholism & Alcohol Abuse (NIAAA/NIH)**, Rockville, MD
- 2019 **Science and Ethics for Happiness and Well-Being** at Columbia University, New York, NY, "Well-being and altruism"
- 2019 **University of Western Ontario** Neuroscience Symposium, London, ON, Canada, "The altruistic brain"

- 2019 **Harvard University** Psychology Colloquium, Cambridge, MA, "The altruistic brain"
- 2019 **Learning & The Brain** annual meeting, San Francisco, CA, "The altruistic brain"
- 2019 **Louisiana State University**, Psychology Colloquium, Baton Rouge, LA, "Understanding others' emotions: Mechanisms and implications for social functioning"
- 2019 **National Institute of Mental Health (NIMH/NIH)**, Affective Neuroscience Talk Series (ANGST), Bethesda, MD "The altruistic brain"
- 2019 **Linfield College**, Psychology Colloquium, Portland, OR, "The altruistic brain"
- 2018 **Israel Institute for Advanced Studies** Conference on Moral Development, Jerusalem, Israel, invited address, "Empathic emotional responding and prosocial development"
- 2018 **Temple University** Department of Psychiatry Grand Rounds, Philadelphia, PA, "The altruistic brain"
- 2018 **George Washington University Autism & Neurodevelopmental Disorders Institute**, Washington, DC, "Empathic emotional responding and prosocial development"
- 2018 **University of Virginia** Clinical Lunch Series, Charlottesville, VA, "The altruistic brain."
- 2018 **Olaf Millert Memorial lecture, St. Olaf College**, St. Olaf, MN, "The altruistic brain."
- 2018 **Georgetown University Medical Center** Department of Neurology Grand Rounds, Washington, DC, "The altruistic brain"
- 2018 **Georgetown University Medical Center** Department of Psychiatry Grand Rounds, Washington, DC, "The altruistic brain"
- 2018 **Society of Computed Body Tomography & Magnetic Resonance**, Washington, DC, "The altruistic brain"
- 2018 **Synergos Global Philanthropists Circle's (GPC)** affinity group meeting on Spiritual Civilization (keynote), Tarrytown, NY
- 2017 **American Psychological Association Spielberg EMPathy Symposium** invited address and recipient of award from American Psychological Foundation, Washington, DC.
- 2017 **University of Western Ontario** Neuroscience Symposium, London, ON, Canada, "The altruistic brain,"
- 2017 **University of Maryland** Psychology Department Colloquium, "The altruistic brain,"
- 2017 **Boston University, Khodadad Distinguished Lecture**, Boston, MA, "The altruistic brain."
- 2017 **Georgetown University Medical Center** Department of Transplantation Grand Rounds, Washington, DC, "The altruistic brain."
- 2017 **Georgetown University** Department of Government, Washington, DC, "Desirable irrationality?"
- 2016 **Georgetown University Medical Center** Department of Child Psychiatry Grand Rounds, Washington, DC, "The altruistic brain."
- 2016 **George Washington University Mind-Brain Institute Seminar**, Washington, DC, "The altruistic brain."
- 2016 **University of California Berkeley, Misconceptions of the Mind Conference**, Berkeley, CA, "Human nature is not fundamentally selfish." ([link](#))
- 2016 **University of Maryland, Roots of Compassion**, College Park, MD, "The altruistic brain,"
- 2016 **Council of Scientific Society Presidents**, Washington DC, "The altruistic brain,"
- 2015 **Georgetown University Conversation with Matthieu Ricard and President John DeGioia on Altruism and Social Responsibility**, moderator, Washington DC

- 2015 **Virginia Commonwealth University** Psychology Department Colloquium, Richmond, VA, "Empathy on a sliding scale: Is extraordinary altruism the inverse of psychopathy?"
- 2015 **University of Virginia** Psychology Department Colloquium, Charlottesville, VA, "Empathy on a sliding scale: Is extraordinary altruism the inverse of psychopathy?"
- 2015 **Dartmouth College** Psychology Department Colloquium, Hanover, NH, "Empathy on a sliding scale: Is extraordinary altruism the inverse of psychopathy?"
- 2015 **The Cleveland Clinic** 'Super Brains: Exploring the Neuroscience of Extraordinary Abilities' Las Vegas, NV, "The altruist's brain."
- 2015 **Uniformed University of the Health Sciences, Center for the Study of Traumatic Stress**, invited address at 10th Annual Amygdala, Stress and PTSD Conference: Of Mice and Man, Bethesda, MD "Empathy on a sliding scale: Is extraordinary altruism the inverse of psychopathy?"
- 2015 **Catholic University** Psychology Department Colloquium, Washington DC, "Empathy on a sliding scale: Is extraordinary altruism the inverse of psychopathy?"
- 2015 **George Mason University** Psychology Department Colloquium, Fairfax, VA "Empathy on a sliding scale: Is extraordinary altruism the inverse of psychopathy?"
- 2014 **Georgetown University Spring Faculty Convocation speaker**, Washington DC
- 2014 **Georgetown University Kennedy Ethics Institute**, Washington DC, "Neural correlates of extraordinary altruists."
- 2014 **Yale University** Clinical Psychology Colloquium, New Haven, CT, "What can we learn about emotion by studying psychopathy?"
- 2013 **University of Chicago** Social Psychology Colloquium, Chicago, IL, "Psychopathy, fear, and empathy."
- 2013 **University of Virginia** Social Lunch Series, Charlottesville, VA, "Psychopathy, fear, and empathy."
- 2013 **Future Tense**, (a partnership of Slate magazine, the New America Foundation, and Arizona State University), Washington, DC, "Empathy and the adolescent brain"
- 2013 **Adventist Behavioral Health, New Research and Clinical Perspectives on Conduct Disorder** invited address, Rockville, MD "Considering the role of emotional responsiveness and empathy in Conduct Disorder."
- 2012 **Ohio State University** Psychology Department Colloquium, Columbus, OH, "Psychopathy, fear, and empathy."
- 2012 **Catholic University** Psychology Department Colloquium, Washington DC, "Psychopathy, fear, and empathy."
- 2012 **Georgetown University** Department of Pediatric Psychiatry Grand Rounds, Washington, DC, "The importance of callous unemotional traits for understanding conduct problems in adolescents."
- 2012 **Junior Science and Humanities Symposium** keynote speaker, Georgetown University, Washington, DC, "Empathy, psychopathy, and fear in adolescents and adults."
- 2011 **Georgetown University** invited talk to Mind the Gap, Washington DC, "Empathy, psychopathy, and fear in adolescents and adults."
- 2011 **Yale University** Interdisciplinary Moral Lunch Colloquium, New Haven, CT, "Empathy, psychopathy, and fear in adolescents and adults."
- 2010 **Georgetown University** Child and Adolescent Psychiatry Program, Washington, DC, "Children with behavior problems: Understanding conduct problems and callous-unemotional traits."
- 2010 **National Institute of Mental Health**, Unit on Affective Cognitive Neuroscience,

- Bethesda, MD, "The role of affect in morality, empathy, and psychopathy."
- 2009 **Society for Neuroscience**, Chicago, IL, "Neural responses to emotional expressions in children and adolescents with psychopathic traits."
- 2009 **University of Maryland**, Cognitive Science Colloquium, College Park, MD, "Empathy, psychopathy, and fear."
- 2009 **University of Virginia**, Developmental Lunch Series, Charlottesville, VA, "Empathy, psychopathy, and fear in adolescents and adults."
- 2008 **University of Southern California**, Psychology Department Colloquium, Los Angeles, CA "Nothing to fear but a lack of fear: Neurocognitive correlates of empathy and antisocial behavior in adolescents and adults."
- 2008 **Georgetown University** Psychology Department Colloquium, Washington DC, "Nothing to fear but a lack of fear: Neurocognitive correlates of empathy and antisocial behavior in adolescents and adults."
- 2007 **Uniformed Services University of the Health Sciences** Health Psychology Department Colloquium, Bethesda, MD "Nothing to fear but a lack of fear: Neurocognitive correlates of empathy and antisocial behavior in adolescents and adults."
- 2007 **University of Maryland School of Medicine** Evidence-Based Practice Center and Mental Health Services Training Center, Baltimore, MD, "Nothing to fear but a lack of fear: The neurocognitive basis of empathy in adulthood and adolescence."
- 2007 **Regional Institute for Children & Adolescents**, Southern Maryland, Rockville, MD. "Disruptive behavior in children and adolescents."
- 2007 **Sheppard Pratt Health System**, "Disruptive Behavior in Children and Adolescents." Baltimore, MD
- 2006 **National Institute of Mental Health**, ANGST Colloquium, Bethesda, MD, "Status signals: Correlates of the perception of nonverbal status cues."
- 2004 **University of Washington**, Psychology Department Colloquium, Seattle, WA, "The communication of emotion via facial expressions."
- 2003 **Harvard University** Social Psychology Research Workshop, Cambridge MA, "The functions of facial expressions of emotion."
- 2002 **College of the Holy Cross** Psychology Department Colloquium, Worcester, MA, "The communication of emotion."

PROFESSIONAL AFFILIATIONS & LEADERSHIP

- 2021 – present Past-president, Social & Affective Neuroscience Society (SANS)
- 2019 – 2021 President, Social & Affective Neuroscience Society (SANS)
- 2018 – present Fellow, Association for Psychological Science (APS)
- 2016 – present Fellow, Society for Personality & Social Psychology (SPSP)
- 2008 – present Member, Society for the Scientific Study of Psychopathy (SSSP)
- 2008 – present Member, Social and Affective Neuroscience Society (SANS)

PROFESSIONAL SERVICE

Grant reviewer

2017	Social Sciences and Humanities Research Council (SHHRC, Canada) ad hoc reviewer
2017 – present	NIH Special Emphasis Panel/Scientific Review Group (F01A Fellowships: Brain Disorders and Related Neurosciences)
2015 – present	Templeton Foundation ad hoc reviewer
2015 – present	NIH Biobehavioral and Behavioral Processes (BBBBP) IRG panel
2010 – 2015	NSF <i>ad hoc</i> reviewer, Social Psychology Program
2011	NSF Site reviewer for post-award Year 7 evaluation of Center for Learning in Informal and Formal Environments at University of Washington, WA
2012	NSF Research and Evaluation on Education in Science and Engineering (REESE) Panel
2010	Netherlands Organisation for Scientific Research ad hoc reviewer
2008	United Kingdom Medical Research Council ad hoc reviewer

Ad hoc journal reviewer

American Journal of Psychiatry
Behaviour Research and Therapy
Biological Psychiatry
British Journal of Psychiatry
Canadian Journal of Behavioral Science
Child & Adolescent Psychiatry and Mental Health
Clinical Psychological Science
Cognition
Cognition & Emotion
Current Biology
Developmental Science
Emotion
Emotion Review
European Journal of Child & Adolescent Psychiatry
Frontiers in Human Neuroscience
Human Brain Mapping
International Journal of Tryptophan Research
JAMA Psychiatry
Journal of Abnormal Child Psychology
Journal of Abnormal Psychology
Journal of Adolescent & Child Psychology
Journal of Child Psychology & Psychiatry
Journal of Clinical Child and Adolescent Psychology
Journal of Clinical Psychiatry
Journal of Cognitive Neuroscience
Journal of Experimental Psychology: Human Perception & Performance
Journal of Experimental Social Psychology
Journal of Forensic Psychiatry & Psychology
Journal of Neuropsychology
Journal of Neuroscience
Journal of Nonverbal Behavior
Journal of Personality & Social Psychology
Journal of Psychiatry & Neuroscience
Journal of Psychopharmacology
Journal of Social & Clinical Psychology
Motivation & Emotion
Nature Human Behaviour

NeuroImage
Neuroimage: Clinical
Neuroscience & Biobehavioral Reviews
Philosophical Transactions B
PLoS ONE
Proceedings of the National Academy of Sciences
Proceedings of the Royal Society – B
Psychiatry & Neuroscience
Psychiatry Research
Psychological Bulletin
Psychological Medicine
Psychological Science
Review of General Psychology
Social Cognitive & Affective Neuroscience
Social & Personality Psychological Science
Stress

Editorial

2018 – present Associate Editor, *Research on Child and Adolescent Psychopathology*
 2019 – present Member, Editorial Board, *Affective Science*
 2018 – present Member, Editorial Board, *Personality Neuroscience*

Advisory

2020 – present Co-Founder, *PsychopathyIs*
 2020 – present Member, Advisory Board, S&R Kuno Foundation
 2020 – present Member, Advisory Board, 1 Day Sooner
 2017 – present Member, Board of Directors, National Kidney Donor Organization
 2015 – present Member, National Academy of Sciences Science & Entertainment Exchange
 2014 – present Consultant, American Chemical Society *Reactions* (science communication)
 2014 Judge, Society for Affective Science poster submissions
 2014 Chair, Planning Committee, Emotion Research Group

University

2021– present Member, College Curriculum Committee
 2018 – 2020 Member, Main Campus Core Curriculum Committee
 2017 – 2018 Member, IRB-C Internal Review Committee
 2016 Science Representative, Undergraduate Admissions Committee
 2014 – 2015 Member, IPN Executive Committee
 2014 – 2015 *Ad hoc* member, College Appeals Board
 2014 – 2015 Co-Director, IRB Task Force
 2013 Judge, Undergraduate Research Conference posters
 2013 Reviewer, Dissertation Travel Grants Committee
 2009 – present Lecturer: BIOL 007, ICOS 201, PSYC 374, PSYC 350, NSCI 503, NSCI 505, NSCI 575

Department

2018 – present	Co-director, Graduate Program
2018	Chair, Faculty Search Committee
2011 – 14, 2018	Director, Georgetown Research Volunteer Program
2017 – 2018	Member, Wright Gift Space Planning Committee
2017 – present	Member, Merit Committee
2015	Chair, Teaching Faculty Search Committee
2014 – present	Member, Graduate Committee
2014, 2017	Member, Faculty Search Committee
2014	Co-Chair, Merit Calculations Committee

PUBLIC OUTREACH AND MEDIA

Talks to non-academic audiences

2021	NAMI Arizona (virtual)
2021	National Academy of Sciences, Science & Entertainment Exchange , “The science of psychopathy” (virtual)
2021	On the Same Page, Morgan Stanley Executive Book Group “The Fear Factor” (virtual)
2020	Rotary International , “The altruistic brain,” Tacoma, WA (virtual)
2020	Palisades Village , “The altruistic brain”, Washington, DC (virtual)
2019	American Academy for the Advancement of Science (AAAS) webinar series “The science of evil”, Washington, DC
2019	World Science Festival “Risky business: The evolution of dangerous behavior” New York, NY
2018	World Bank , Washington DC “The altruistic brain” Keynote address, the Finance, Competitiveness & Innovation Knowledge Exchange Week.
2018	Carnegie Hero Fund 10,000th Award Symposium, Pittsburgh, PA
2017	Politics & Prose “The Fear Factor” book reading and discussion.
2017	Rethink Impact Annual Summit , Washington, DC “The altruistic brain”
2017	National Marrow Donor Program Annual Summit , Minneapolis, MN “What do prospective marrow donors think about when they think about donating?”
2017	National Academy of Sciences, Science & Entertainment Exchange , Woods Hole, MA, “The science of psychopaths,”
2017	Georgetown University Hoya Kids Learning Center brown bag workshop, Washington, DC, “The empathic brain.”
2016	TED* Banff, AB, Canada “Why some people are more altruistic than others” (link) <i>*Presented on the TED mainstage and viewed over 2 million times online</i>
2015	Science & Entertainment Exchange, National Academy of Sciences , Sonoma, CA “The Science of Psychopathy,”
2014	Washington Regional Transplant Consortium , Annandale VA, “Neural correlates of altruistic kidney donation.”

- 2013 **Tribeca Film Institute**, New York, NY, "The science of psychopaths"
- 2012 **Walter Reed National Military Medical Center**, Loyola Castle project, Bethesda, MD
"Neurocognitive mechanisms underlying individual differences in moral judgment."

Articles authored in popular media:

- 2021 *New York Times*, "Everyone thinks Americans are selfish. They're wrong." ([link](#))
- 2020 *STAT News* "If donating a kidney to a stranger is ethical and allowable, taking part in a Covid-19 challenge trial should be, too" ([link](#))
- 2020 *Washington Post* "How we can keep our fear from spiraling out of control?" ([link](#))
- 2019 *Washington Post* "The news can make us overly paranoid. It's part of the brain's response" ([link](#))
- 2019 *Character & Context* "What is the amygdala, and what does it have to do with helping?" ([link](#))
- 2018 *Washington Post* "James Corden had one thing right: We're neurologically wired to love puppies" ([link](#))
- 2018 *NPR* "Could a more individualistic world also be a more altruistic one?" ([link](#))
- 2017 *NPR* "What drives some people to take personal risks to help strangers?" ([link](#))
- 2017 *Edge* "Alloparenting" ([link](#))
- 2017 *Chronicle of Higher Education* "Choosing fear" ([link](#))
- 2017 *Psychology Today* "Why is it so hard to be altruistic?" ([link](#))
- 2016 *Psychology Today* "Animal altruism" ([link](#))
- 2016 *Psychology Today* "Above and beyond: An introduction to altruism in the world and the lab" ([link](#))
- 2016 *Edge* "Neuroprediction" ([link](#))
- 2015 *Edge* "Caring machines"
- 2014 *Edge* "The distinction between antisociality and mental illness." ([link](#))
- *The Edge Question series is a compendium of ideas from invited scientists, writers, and intellectuals "whose creative work has expanded our notion of who and what we are" and who conduct work "on the cutting edge of the culture, and the investigation of ideas that have not been generally exposed." Contributors include Steven Pinker, Richard Thaler, Alison Gopnik, Richard Dawkins, Jared Diamond, and Daniel Dennett.*
- 2012 *Slate* "Less guilty by reason of neurological defect" ([link](#))

Media coverage

Television

- 11/07/2021 *60 Minutes (CBS News)* "Carnegie Heroes and the neuroscience behind acts of heroism" ([link](#))
- 06/30/2019 *CNN* "Inside Evil" ([link](#))
- 11/20/2019 *PBS Nova* "The violence paradox" ([link](#))
- 07/27/2019 *Voice of America (Russia)* "To study the phenomenon of altruism" ([link](#))
- 07/08/2019 *CBS News* "Scientists studying brains of altruistic kidney donors who give organs to strangers" ([link](#))

- 11/22/2017 *BBC World News*
- 11/18/2017 *CSPAN-2 BookTV "The Fear Factor"* ([link](#))
- 1/7/2016 *PBS Newshour "Want to be happy? Giving is more gratifying than receiving"* ([link](#))
- 12/09/2014 *A Crime to Remember, Investigation Discovery "The Pied Piper"* ([link](#))

Radio

- 01/14/2022 *WHYY (NPR affiliate) The Pulse "The generosity spectrum"* ([link](#))
- 01/28/2021 *WNRN (NPR affiliate) The Colin McEnroe Show "Running toward the fire"* ([link](#))
- 12/27/2018 *WAMU (NPR affiliate) Kojo Nnamdi "The altruism show: What makes do-gooders do good?"* ([link](#))
- 5/21/2018 *CBC Radio "Extreme altruism: Why do some people help others at great risk to themselves?"* ([link](#))
- 1/31/2018 *Wharton Business Radio "Abigail Marsh on leadership in action."* ([link](#))
- 12/4/2017 *WHYY (NPR affiliate) "'The Fear Factor,' altruism, and psychopathy"* ([link](#))
- 12/12/2017 *WYNC Leonard Lopate Show (NPR affiliate) "What altruists have in common with serial killers"* ([link](#))
- 11/10/2017 *Jefferson Public Radio (NPR affiliate) "Empath or psychopath? "The Fear Factor"'"* ([link](#))
- 12/20/2017 *KPCW Public Radio (NPR affiliate)* ([link](#))
- 11/24/2017 *Talk Radio Europe "Altruism"* ([link](#))
- 11/7/2017 *Radio New Zealand "The biology of altruism"* ([link](#))
- 10/20/2017 *WBEZ (NPR affiliate)*
- 5/26/2017 *NPR TED Radio Hour "Wired for altruism"* ([link](#))
- 9/22/2014 *NPR Morning Edition "The biology Of altruism: Good deeds may be rooted In the brain"* ([link](#))

Podcasts

- forthcoming *Circle of Willis*
- 10/30/21 *Stanford Psychology Podcast* ([link](#)) "Surprising predictors of everyday kindness."
- 05/10/2021 *How to Help* ([link](#)) "Neuroscience of altruism"
- 02/17/2021 *Torch* ([link](#))
- 02/06/2021 *Georgetown Now, a weekday conversation series with President DeGioia* ([link](#))
- 01/14/2021 *#TalkMentalIllness* ([link](#))
- 10/21/2020 *Everything Happens with Kate Bowler* ([link](#))
- 09/30/2020 *Ten Percent Happier* ([link](#))
- 07/23/2020 *The Purple Principle* ([link](#))
- 04/23/2020 *The Happiness Lab* ([link](#))
- 02/03/2020 *Thread of Evidence* ([link](#))
- 12/25/2018 *Inquiring Minds "How one emotion connects altruists and psychopaths"* ([link](#))

- 06/01/2018 *Women in a Day* Dr. Abigail Marsh ([link](#))
- 05/17/2018 *Science(ish)* “Seven pounds” ([link](#))
- 03/30/2018 *33 Voices* “Abigail Marsh: The Fear Factor” ([link](#))
- 12/25/2017 *Inquiring Minds* “206 – Abigail Marsh: How one emotion connects altruists and psychopaths” ([link](#))
- 11/19/2017 *Jeff Schechtman Show* “How one emotion connects altruists, psychopaths, and everyone in-between” ([link](#))
- 10/29/2017 *Penn’s Sunday School* (Part 1 [link](#)) (Part 2 [link](#))
- 10/28/2017 *David Pakman Show* “When your child is a psychopath” ([link](#))
- 08/10/2017 *Big Questions Online* (John Templeton Foundation) “Are humans altruistic by nature?” ([link](#))
- 5/12/2014 *Journal of Child Psychology & Psychiatry Podcast Series* “Inaugural Podcast” ([link](#))
- 02/10/2014 *Reactions for the American Chemical Society*, “The chemistry of love” ([link](#))
- 10/28/2013 *Reactions for the American Chemical Society*, “The chemistry of fear” ([link](#))

Print/online

- 10/01/2021 *Omnes* “Abigail Marsh: “Helping others is essential to experiencing true happiness” ([link](#))
- 06/27/2021 *Bloomberg News* “Individualism makes us altruistic and happy.” ([link](#))
- 05/28/2021 *Reason* “More individualism means more altruism” ([link](#))
- 03/31/2021 *Vox* “What kind of person signs up to be infected with the coronavirus on purpose?” ([link](#))
- 01/25/2021 *National Geographic* “Scary fun: Why kids should play in the dark” ([link](#))
- 04/01/2020 *Flux* “The spreading of the kindness contagion” ([link](#))
- 03/18/2020 *Georgetown University* “How to Cope in the Time of COVID-19: Psychologists Provide Crucial Tips” ([link](#))
- 03/09/2020 *Good Morning America* “Keep calm and wash your hands: 5 tips for managing stress around coronavirus” GMA ([link](#))
- 10/30/2019 *The Heights*, “Marsh Explains The Science Behind Donating Kidneys To Strangers” ([link](#))
- 07/08/2019 *WAFB News* “Researchers study the brains of altruistic kidney donors” ([link](#))
- 06/27/2019 *CNN* “He admits to killing 8 women in cold blood. But don’t call him evil.” ([link](#))
- 05/08/2019 *Vice* “The anatomy of empathy” ([link](#))
- 07/26/2018 *Business Insider* “I studied children with psychopathic traits, and they all have trouble recognizing an emotion that we all feel” ([link](#))
- 03/23/2018 *Christian Century* “An altruist and a psychopath walk into a research study” ([link](#))
- 03/04/2018 *Inc.* “7 super successful women share the book that influenced them most” ([link](#))
- 01/04/2018 *Huffington Post* “The fear factor: From psychopaths to extraordinary altruists” ([link](#))
- 01/02/2018 *National Geographic* “How fear makes you do good or evil” ([link](#))
- 01/01/2018 *National Geographic* “The science behind psychopaths and extreme altruists” ([link](#))

- 12/20/2017 *Forbes* "What connects altruists, psychopaths, and us all" ([link](#))
- 12/14/2017 *Pop Matters* "'The Fear Factor' explores the impulse within us all" ([link](#))
- 11/22/2017 *Improvement Zone* "Why helping others brings you joy" ([link](#))
- 11/21/2017 *Washington Post* "Why fear motivates both altruists and psychopaths" ([link](#))
- 11/20/2017 *Psychology Today* "Our responses to fear help us understand compassion" ([link](#))
- 11/19/2017 *The Week* "Why do we believe in the kindness of strangers?" ([link](#))
- 11/15/2017 *New Scientist* "What makes you a psychopath or an extraordinary altruist?" ([link](#))
- 11/01/2017 *Dartmouth Alumni Magazine* "What makes nice people nice?" ([link](#))
- 11/01/2017 *BBC Focus* "Lend a hand"
- 10/24/2017 *Religion News Service* "Can empathy be learned?" ([link](#))
- 10/24/2017 *The Mirror (UK)* "Inside the minds of child psychopaths - and the surprising character trait many of them inherit from their mums" ([link](#))
- 10/22/2017 *The Guardian (UK)* "What makes a child a psychopath?" ([link](#))
- 10/18/2017 *Wall Street Journal* "The cruel and the kind" ([link](#))
- 09/05/2017 *Science* "The Fear Factor" ([link](#))
- 06/21/2017 *New Scientist* "Would you give one of your kidneys to a stranger?" ([link](#))
- 04/28/2017 *Washington Post* "What makes someone donate a kidney to a stranger?" ([link](#))
- 02/27/2017 *Inverse* "The selfless biology of the extreme altruist" ([link](#))
- 09/01/2016 *BBC* "The complicated way money messes with your morals" ([link](#))
- 04/21/2016 *Wall Street Journal* "The psychopath, the altruist, and the rest of us." ([link](#))
- 10/16/2016 *Business Insider*, "How six extraordinary acts of kindness saved 140 lives" ([link](#))
- 08/31/2015 *The Independent (UK)* "How to spot a psychopath... and what to do if you know one" ([link](#))
- 07/10/2015 *Ottawa Citizen* "Inside the brains of extreme altruists" ([link](#))
- 12/09/2014 *Men's Health* "Are living organ donors saints... or lunatics?" ([link](#))
- 11/24/2014 *Forbes* "Wire your brain for gratitude in 30 seconds" ([link](#))
- 10/20/2014 *Slate* "Is anybody watching my do-gooding?" ([link](#))
- 10/15/2014 *Vox* "The science of extreme altruism: Why people risk their lives to save strangers" ([link](#))
- 09/25/2014 *New York Magazine* "Who would donate a kidney to a stranger? An 'anti-psychopath'" ([link](#))
- 09/23/2014 *The Daily Mail (UK)* "Can you be BORN kind?" ([link](#))
- 09/22/2014 *NPR* "The biology Of altruism: Good deeds may be rooted In the brain" ([link](#))
- 09/22/2014 *New York Daily News* "Brains of altruists, psychopaths are different: study" ([link](#))
- 09/19/2014 *The Economist* "Extreme altruism—right on!" ([link](#))
- 09/18/2014 *The Times (UK)* "How altruism is hard-wired in the brain" ([link](#))
- 09/15/2014 *Los Angeles Times* "Brains of kidney donors seem built for generosity" ([link](#))
- 04/01/2014 *APS Observer* "Nonverbal accents" ([link](#))

- 02/07/2014 *U.S. News & World Report* "Could people's well-being affect likelihood of kidney donation?" ([link](#))
- 01/29/2014 *Science Daily* "Altruistic acts more common in states with high well-being" ([link](#))
- 01/30/2014 *Huffington Post* "High well-being could make you more altruistic." ([link](#))
- 01/24/2014 *Huffington Post* "Extraordinary altruism: Who gives a kidney to a stranger?" ([link](#))
- 06/26/2012 *Slate* "Can you guess these athletes' nationalities?" ([link](#))
- 10/24/2011 *Science + Religion Today* "Could our genes make consensus on certain issues impossible?" ([link](#))
- 10/05/2011 *Scientific American* "A moral gene?" ([link](#))
- 09/29/2009 *Scientific American* "The problem with psychopaths? A fearful face doesn't deter them." ([link](#))
- 02/11/2009 *New Scientist* "Fearful expressions evolved to mimic babies' faces" ([link](#))
- 02/20/2008 *NIH Science News* "Cold, unfeeling traits link to distinctive brain patterns in kids with severe conduct problems" ([link](#))
- 12/01/2007 *Greater Good Magazine* "Facing fear" ([link](#))
- 09/09/2007 *Allure* "Beauty flattery" ([link](#))
- 08/01/2007 *Scientific American* "Unspoken accents" ([link](#))
- 05/20/2007 *Newsweek* "Can you hear her scream?" ([link](#))
- 12/12/2004 *Newsweek* "Looking years younger" ([link](#))

TEACHING ACTIVITIES

Courses

Undergraduate

- 2008 – present General Psychology – PSYC001 (Lecture course – Fall 2008, Spring 2009, Fall 2009 and Spring thereafter)
- 2008 – 2009 Introduction to Cognitive Science - ICOS201 (Contributor for 1 week to team-taught course taught every Fall)
- 2009 – present Social & Affective Neuroscience – PSYC235 (Lecture course – Fall)
- 2009 – 2013 Empathy, Altruism, & Aggression – PSYC 358 (Seminar course – Spring)
- 2018 – present Empathy & Communication – PSYC 358 (Seminar course – Spring)
- 2012 The Brain & the Evolution of Behavior – BIOL007 (Contributor for 1 week to team-taught course)

Graduate

- 2012 Introduction to Neuroscience for Special Masters Program – NSC575 (Contributor for 1 week to team-taught course)
- 2009 – present Graduate Seminar in Developmental Science: Brain and Cognition - PSYC504 (Contributor for 1 week to team-taught course)
- 2009 – present Systems and Cognitive Neuroscience for Interdisciplinary Program in Neuroscience – NSCI503 (Contributor for 1 week to team-taught course)

2008, 2012 Survey course for Interdisciplinary Program in Neuroscience – NSCI505
(Contributor for 1 week to team-taught course)

Mentoring

Graduate students (primary mentor)

2020 – present Paige Amormino, Department of Psychology, Georgetown University
 2018 – present Kathryn Adams, Department of Psychology, Georgetown University
 2017 – present Shawn Rhoads, Department of Psychology, Georgetown University
 2016 – present Katherine O’Connell, Interdisciplinary Program in Neuroscience, Georgetown University Medical Center
 2014 – 2019 Kruti Vekaria, Department of Psychology, Georgetown University
 2012 – 2017 Elise Cardinale, Ph.D., Department of Psychology, Georgetown University
Post-doctoral fellow, NIMH
 2011 – 2016 Kristin Brethel-Haurwitz, Ph.D., Department of Psychology, Georgetown University
Post-doctoral fellow, University of Pennsylvania
 2011 – 2014 Joana Vieira, Ph.D., Doctoral Program in Neurosciences, University of Porto, Portugal
Post-doctoral fellow, Karolinska Institutet
 2010 – 2014 Leah Lozier, Ph.D., Interdisciplinary Program in Neuroscience, Georgetown University Medical Center
Research fellow, Office of Evaluation Sciences, Department of Housing & Urban Development

Dissertation co-mentor

2011 – 2012 Amy Palmer, Department of Psychological & Brain Sciences, Dartmouth College

Committee (dissertation / qualifying exam orals) member

2020 Jessica Jacobs, Interdisciplinary Program in Neuroscience, Georgetown University Medical Center
 2020 Hannah Waguepack, Interdisciplinary Program in Neuroscience, Georgetown University Medical Center
 2017 Luke Wright, Department of Psychology, Australian National University
 2017 Benson Stevens, Interdisciplinary Program in Neuroscience, Georgetown University Medical Center
 2016 Gabrielle-Ann Torre, Interdisciplinary Program in Neuroscience, Georgetown University Medical Center
 2016 Catherine Elorette, Interdisciplinary Program in Neuroscience, Georgetown University Medical Center
 2014 Amy Dawel, Research School of Psychology, The Australian National University
 2014 Daniel Hyuk-Joon Lee, University of Toronto
 2014 Erika Raven, Interdisciplinary Program in Neuroscience, Georgetown University Medical Center
 2014 Kathryn Schuler, Interdisciplinary Program in Neuroscience, Georgetown University Medical Center

2013	Eric Murphy, Department of Psychology, Georgetown University
2011	Sheeva Azma, Interdisciplinary Program in Neuroscience, Georgetown University Medical Center
2011	Lauren Pepe, Interdisciplinary Program in Neuroscience, Georgetown University Medical Center
2010	T.J. Krafnick, Interdisciplinary Program in Neuroscience, Georgetown University Medical Center

Laboratory rotation mentor, Interdisciplinary Program for Neuroscience, Georgetown University Medical Center:

2009	Justyna Mach
2010	Jessica Inhe
2010	Caitlyn Taylor
2011	Andrew Breeden
2012	Valerie Darcey
2012	Benson Stevens
2013	John Accardi
2014	Jeffrey Bloch
2016	Katie O'Connell

Undergraduate

Honors thesis mentor

2018	Madeleine Quinn, Department of Psychology
2018	Miriam Crinion, Department of Psychology
2016	Megan Weber, Department of Psychology
2014	Jennifer Hammer, Department of Psychology
2013	Jessica Chaffkin, Department of Psychology
2013	Yean Do, Department of Psychology
2012	Esha Nagpal, Department of Psychology
2012	Mahlet Megra, Department of Biology (<i>co-mentor</i>)
2012	Michaela Tracy, Department of Psychology
2012	Kalli Krumpos, Program of Justice and Peace (<i>co-mentor</i>)
2011	Hae Min Byeon, Department of Psychology
2010	Kyla Machell, Department of Psychology

Research assistant mentor

2008 – present	Research assistant mentor for 1 or more semesters (*supported by GUROP): Hae Min Byeon*, Elise Cardinale, Jessica Chaffkin*, Kelly Church, Keri Church, Miriam Crinion, Yean Do*, Zoë Epstein, Shivani Goyal, Mollie Grossman, Jennifer Hammer, Alexandra Hashemi*, Arianna Hughes, Emily Jones, Sarah Khorosani, Kalli Krumpos*, Kyla Machell*, Diana McCue, Esha Nagpal*, Brandon Padgett,
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	Madeleine Quinn, Stella Ryou, Nilesh Seshadri, Kelsey Smith, Madeline Smith, Maria Stoianova, Michaela Tracy*, Marissa Walsh, Megan Weber
2014	Matthew Williams (Boston College)
2013	Michael Didow III (East Carolina University)
2010	Belel Ait Oumeziane (University of Virginia)
2009	Michael Hall (Tufts University)

Paid research assistants (full-time)

2020 – present	Montana Ploe, Laboratory manager (B.A. University of Colorado, Boulder)
2018 – 2020	Hannah Savitz, Laboratory manager (B.A. Northwestern University) – Psychology Ph.D. student at Yale University
2016 – 2018	Lydia Meena, Laboratory manager (B.A. Georgetown University)
2015 – 2016	Abbey Hammel, M. A., Research assistant (B.A. Winona State University)
2014 – 2016	Emily Robertson, Ph.D. Laboratory manager (B.A. University of North Florida) –
2012 – 2014	Sarah Stoycos, Ph.D. Laboratory manager (B.A. University of Maryland)
2010 – 2012	Elise Cardinale, Ph.D, Laboratory manager (B.A. Georgetown University)
2010 – 2011	Alyssa Mrazek, Ph.D., Research assistant (B.A. Cornell University)
2009 – 2010	Piyush Sovani, M.D., Laboratory manager (B.A. Johns Hopkins University)