John P. Christianson

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Education

Degrees

Ph.D. Physiological Psychology	University of New Hampshire	2006
M.A. Physiological Psychology	University of New Hampshire	2003
B.A. Psychology	Susquehanna University	2001

Training Experience

Responsible Conduct of Research	University of Colorado	2011
Ion Channel Physiology	Cold Spring Harbor Laboratory	2011
Cognate in College Teaching	University of New Hampshire	2006

Professional Appointments

Associate Professor of Psychology	Boston College	2019-present
Gianinno Family Sesquicentennial Assistant Professor of Psychology	Boston College	2016-2019
Assistant Professor of Psychology	Boston College	2013-2015
Research Associate	University of Colorado	2006-2013
Graduate Instructor, Psychology Department	University of New Hampshire	2003-2006

Grants

Active:

"Insular cortex and social affect"
NIMH R01 (4/1/2019—12/31/2023) MH119422 $1,250,000 Direct costs
Role—PI

"Multiplex RNA Imaging of Stress Hormone Receptor in Brain"
Boston College *Ignite* (7/1/2020—6/31/2022)
Role—PI

Pending:

"Corticotropin releasing factor in the insular cortex"
NIMH R21 (Reviewed, 39th Percentile, In Revision)
Role – PI

"Microglial pruning of dopamine receptors and opioid abuse"
NIDA R01 (Reviewed, 17th Percentile, Revised and Under Review)

Role – Co-Investigator (PI – Dr. Staci Bilbo, Duke University)

Completed:

"Insular Cortex Oxytocin Receptors and Social Affect"
NIMH R56 (9/4/2017—8/31/2020) MH109545 $500,000 Direct costs
Role – PI

"Stressor controllability, resilience and prefrontal cortex endocannabinoids"
NIMH R21 (7/1/2016—6/30/19) MH110907 $275,000 Direct costs
Role – PI, (Co-I, Matthew Hill, University of Calgary)

"*In vivio* calcium imaging of empathy"
BC Research Incentive Grant (11/1/18—5/31/19) $19,110
Role – PI

"Safety Learning and Plasticity in the Insular Cortex"
K99/R00 MH093412-01, National Institutes of Health-NIMH (4/1/2011 - 7/31/2017) $890,000 Direct costs
Role – PI

"Sex differences in vasopressin modulation of lateral septum excitatory synaptic transmission"
BC-Research Incentive Grant. (6/1/2016-8/31/2017) $15,000
Role – PI

"Dissecting the contribution of insular cortex to safety learning using temporally-precise optogenetic tools."
2012 NARSAD Young Investigator Award. (1/15/2013 – 1-14/2016) $60,000 Direct Costs.
Role – PI

"Stressor controllability and anxiety: role of serotonin and the medial prefrontal cortex"
FMH082453A, National Institutes of Health (8/1/2008 – 3/31/2011) $ $137,000 Direct Costs.
Role – PI (sponsor, Steven Maier)

Awards

2016 Inaugural Gianinno Family Sesquicentennial Assistant Professor

2012 NARSAD Young Investigator Award

2012 Travel Award – 18th Annual Symposium on Emotion, HealthEmotions Research Institute.

2011 Travel Award – American College of Neuropsychopharmacology

2004 Graduate Student Research Award, University of New Hampshire

2003 Summer TA Fellowship, Graduate School, University of New Hampshire

2001 Senior Psychology Award, Susquehanna University

2000 Phillip C. Bosart Memorial Psychology Scholarship, Susquehanna University

2000 Psi Chi

Peer Reviewed Publications (* indicates BC undergrad **graduate student)

1. Foilb, AF., Sansariq, G., Fernando, K., Christianson, J.P. (2020) Neural correlates of safety learning. *Behavioural Brain Research, 396*:112884. doi: 10.1016/j.bbr.2020.112884
2. Worley, N.B., Everett, S., Foilb, A.F., Christianson, J.P. (2020) Functional Networks Activated by Controllable and Uncontrollable Stress in Male and Female Rats. *Neurobiology of Stress, 13* https://doi.org/10.1016/j.ynstr.2020.100233

3. *Commentary:* Rieger, N.S., Christianson, J.P. (2020) Vigilance in a time of social distancing. *Neuropsychopharmacology*. doi: 10.1038/s41386-020-0672-5

4. Worley, N.B., Varela, J.A., Gaillardetz, G.P., Hill, M.N., Christianson, J.P. (2020) Monoacylglycerol lipase alpha inhibition alters prefrontal cortex excitability and blunts the consequences of traumatic stress in rat. *Neuropharmacology, 166.* Doi: *10.1016/j.neuropharm.2020.107964*

5. Rogers-Carter, M.M.,** Djerdjaj, A.,** Gribbons, K.B.*, Varela, J.A., Christianson, J.P. (2019) Insular cortex projections to nucleus accumbens core mediate social approach to stressed juvenile rats. *Journal of Neuroscience, 39(44):*8717-8729. doi: 10.1523/JNEUROSCI.0316-19.2019.

6. Rogers-Carter M.M.**, Christianson, J.P. (2019) An insular view of the social decision-making network. *Neuroscience and Biobehavioral Reviews, 103*: 119-132. doi: 10.1016/j.neubiorev.2019.06.005

7. Rogers-Carter, M.M.**, Djerdjaj, A., Culp, A.R.* Elbaz, J.A.*, & Christianson, J.P. (2018) Familiarity modulates social approach toward stressed conspecifics in female rats. *PLoSONE, 13(10):e0200971*. doi: 10.1371/journal.pone.0200971

8. McReynolds, J.R., Christianson, J.P., Blacktop, J.M., Mantsch, J.R. (2018) What does the Fos say? Using Fos-Based Approaches to Understand the Contribution of Stress to Substance Use Disorders. Neurobiology of Stress, 9, 271-285. doi: 10.1016/j.ynstr.2018.05.004

9. Sarlitto, M*., Foilb, A.R.,**, Christianson, J.P. (2018) Ventrolateral orbitofrontal cortex is required for discrimination between danger and safety signals. Neuroscience, 379: 350-358. doi: 10.1016/j.neuroscience.2018.03.037

10. Rogers, M. M.**+, Varela, J.A.+, Gribbons, K.B.,* Pierce, A.F*., McGoey, M.T.* & Christianson, J.P. (2018) Insular Cortex Mediates Approach and Avoidance Responses to Social Affective Stimuli. Nature Neuroscience, 21: 404-414. +Indicates equal contributions by First Authors doi: 10.1038/s41593-018-0071-y

11. Worley, N.**, Hill, M.W., Christianson, J.P. (2018) Prefrontal circuit excitability, endocannabinoids and stress resilience: a hypothesis. Progress in Neuro-psychopharmacology and Biological Psychiatry, 85 (13): 180-188. doi.org/10.1016/j.pnpbp.2017.04.004

12. Foilb, A.R.**, Bals, J*, Sarlitto, M*, Christianson, J.P. (2018) Sex differences in fear discrimination do not predict differences in summation. Learning & Memory, 25(1):49-53. doi: 10.1101/lm.045500.117.

13. Grace, P.M., Loram, L.C., Strand, K.A., Christianson, J.P., Flyer-Adams, J.G., Penzkover, K.R., Forsayeth, J.R., van Dam, A., Mahoney, M.J., Maier, S.F., Chavez, R.A., Watkins, L.R. (2017) Behavioral assessment of neuropathic pain, fatigue, and anxiety in experimental autoimmune encephalomyelitis (EAE) and attenuation by interleukin-10 gene therapy. Brain, Behavior and Immunity,59: 49-54 doi: 10.1016/j.bbi.2016.05.012.

14. Foilb, A.R.**, Flyer-Adams, J.G., Maier, S.F., & Christianson, J.P. (2016) Posterior insular cortex is necessary for conditioned inhibition of fear. Neurobiology of Learning and Memory, 134: 317-327. doi: 10.1016/j.nlm.2016.08.004

15. Naughton, J.R.,** Connolly, T., Varela, J.A., Lundberg, J.,* Burns, M.J., Chiles, T.C., Christianson, J.P., & Naughton, M.J. (2016) Shielded coaxial optrode arrays for neurophysiology. Frontiers in Neuroscience, 10: 252. doi: 10.3389/fnins.2016.00252.

16. Foilb, A.R.**, Christianson, J.P. (2016) Serotonin 2C receptor antagonist improves fear discrimination and safety signal recall. Progress in Neuro-pharmacology & Biological Psychiatry, 65(4): 78-84.

17. Amat, J., Dolzani, S.D., Tilden, S., Christianson, J. P., Kubala, K.H., Bartholomay, K., Sperr, K., Ciancio, N., Watlkins, L.R., Maier, S.F. (2016) Ketamine produces an enduring blockade of neurochemical and behavioral effects of uncontrollable stress. The Journal of Neuroscience, 36(1): 153-61.

18. Chen, V.M.*, Foilb, A.R.**, Christianson, J.P. (2016) Inactivation of ventral hippocampus interfered with cued-fear acquisition but did not influence later recall or discrimination. Behavioural Brain Research, 296(1): 249-253.

19. Christianson, J.P., Flyer, J.G., Drugan, R.C., Amat, J., Foilb, A**., Watkins, L.R., & Maier, S.F. (2014) Learned stressor resistance requires extracellular signal-regulated kinase signaling in the prelimbic cortex. Frontiers in Behavioral Neuroscience, 8: 345.

20. Amat, J., Christianson, J.P. Aleksejev, R.M., Kim, J., Richeson, K.R., Watkins, L.R., & Maier, S.F. (2014) Control over a stressor involves the posterior dorsal striatum and the act/outcome circuit. European Journal of Neuroscience, 40(2): 2352-8.
21. Christianson, J. P. & Greenwood, B. N. (2014) Stress-protective neural circuits: not all roads lead through the medial prefrontal cortex. Stress, 17(1): 1-12.
22. Thompson, RS. Christianson, J.P. Maslanik, TM. Greenwood, B.N. Maier, S. Fleshner, M. (2013) Effects of stressor controllability on diurnal physiological rhythms. Physiology & Behavior, 112-113: 32-39.
23. Drugan, R.C., Christianson, J.P., Warner, T. & Kent, S. (2013) Resilience in shock and swim stress models of depression. Frontiers in Behavioral Neuroscience, 7: 14.
24. Christianson, J.P. Drugan, R.C., Flyer, J.G., Watkins, L.R., & Maier, S.F. (2013) Anxiogenic effects of an acute swim are sensitive to stress history. Progress in Neuropharmacology and Biological Psychiatry, 44: 17-22.
25. Christianson, J. P., Jovanovic, T., Kazama, A., Fernando, A., Ostroff, L., Sanga, S. (2012). Inhibition of fear by learned safety signals: minisymposium review. Journal of Neuroscience, 32(41): 14118-14124.
26. Helmreich, D. L., Tylee, D., Christianson, J. P., Kubala, K. H., Govindarajan, S. T., O'Neill, B., Becoats, K., Watkins, LR., Maier, SF. (2012) Active behavioral coping alters the behavioral but not the endocrine response to stress. Psychoneuroendocrinology, 37(12): 1941-8.
27. Varela, J., Wang, J., Christianson, J. P., Maier, S. F., & Cooper, D. C. (2012) Control over stress, but not stress per se increases prefrontal cortical pyramidal neuron excitability. Journal of Neuroscience, 32(37): 12848-53.
28. Kubala, K. H., Christianson, J. P., Kaufman, R., Watkins, L. R., Maier, S. F. (2012) Controllable stress exposure during adolescence confers short- and long-term resilience: role of medial prefrontal cortex and dorsal raphé nucleus. Behavioral Brain Research, 234(2): 278–284.
29. Greenwood, B.N., Loughridge, A.B., Christianson, J. P., Sadaoui, N., Fleshner, M. (2012) The protective effects of voluntary exercise against the behavioral consequences of uncontrollable stress persist following cessation of exercise. Behavioural Brain Research, 233(2): 314-21.
30. Strong, P. V., Christianson, J. P., Laughridge, A. B., Maier, S. F., Fleshner, M., & Greenwood, B. N. (2011) 5-hydroxytrptamine 2C receptors in the dorsal striatum mediate stress-induced interference with negatively-reinforced instrumental learning. Neuroscience, 197: 132-44.
31. Christianson, J.P., Jennings, J.H., Ragole, T. Flyer, J., Benison, A., Barth, D., Watkins, L.R., Maier, S.F. (2011) Safety signals mitigate the consequences of uncontrollable stress via a circuit involving the sensory insular cortex and the bed nucleus of the stria terminalis. Biological Psychiatry, 70(5): 458-64.
32. Christianson, J. P., Ragole, T., Amat, J., Greenwood, B.N., Strong, P.V., Fleshner, M., Paul, E.D., Watkins, L.R., & Maier, S. F., (2010) 5-hydroxytryptamine 2C receptors in the basolateral amygdala are involved in the expression of anxiety after uncontrollable traumatic stress. Biological Psychiatry, 67(4): 339-45.
33. Christianson, J. P., Thompson, B., Watkins, L. R., & Maier, S. F. (2009) Medial prefrontal cortical activation modulates the impact of controllable and uncontrollable stressor exposure on a social exploration test of anxiety. Stress 12(5): 445-450.
34. Drugan, R. C., Christianson, J. P., Stine, W.W., Soucy, D. P. (2009) Swim stress-induced ultrasonic vocalizations forecast resilience in rats. Behavioural Brain Research 202, 142-145.
35. Christianson, J. P., Benison, A.M., Jennings, J.H., Sandsmark, E.K., Amat, J., Kaufman, R.D., Barratta, M.V., Paul., E.D., Campeau, S., Watkins, L.R., Barth D.S., & Maier, S.F. (2008) The sensory insular cortex mediates the stress-buffering effects of safety signals but not behavioral control. Journal of Neuroscience, 28(50), 13703-13711.
36. Christianson, J. P., Paul, E., Irani, M, Thompson, B. M., Kubala, K. H., Yirmiha, R., Watkins, L. R., & Maier, S. F. (2008) Role of prior stressor controllability and the dorsal raphe nucleus in sucrose preference and social exploration. Behavioural Brain Research, 193, 87-93.

37. Christianson, J. P., Rabbett, S., Lyckland, J., & Drugan, R. C. (2008) The immobility produced by intermittent swim stress is not mediated by serotonin. Pharmacology, Biochemistry, & Behavior, 89, 412-423.

38. Baratta, M., Christianson, J. P., Gamez, D. Zarza, C., Amat, J., Watkins, L. R., & Maier, S. F. (2007) Controllable versus uncontrollable stressors bi-directionally modulate conditioned but not innate fear. Neuroscience, 146(4), 1495-503

39. Drugan, R. C., Weidholtz, L., Holt, A., Kent, S., & Christianson, J. P. (2007) Environmental and Immune Stressors Enhance Alcohol Induced Motor Ataxia in Rat. Pharmacology, Biochemistry, & Behavior, 86(1), 125-31.

40. Levay, E. A., Govic, A., Hazi, A., Flannery, G., Drugan, R. D., Christianson, J. P., & Kent, S. (2006) Endocrine and immunological correlates of behaviorally identified swim stress resilient and vulnerable rats. Brain, Behavior, and Immunity, 20, 488-497.

41. Drugan, R. C., Eren, S., Hazi, A., Silva, J., Christianson, J. P., & Kent, S. (2005) Impact of water temperature and stressor controllability on swim stress-induced changes in body temperature, serum corticosterone, and immobility in the rat. Pharmacology, Biochemistry, & Behavior, 82(2), 397-403.

42. Christianson, J. P., & Drugan, R. C. (2005) Intermittent cold water swim stress increases immobility and interferes with escape performance in rat. Behavioural Brain Research, 165(1), 58-62.

43. Christianson, J. P., Anderson, M. J., Misanin, J. R., & Hinderliter, C. F. (2005) Hypothermia prolongs the interval at which taste aversions can be formed when using a compound CS. Perceptual and Motor Skills, 100, 913-919.

44. Misanin, J. R., Christianson, J. P., Anderson, M. J., Giovani, L. M., & Hinderliter, C. F., (2004) Ketaset-Rompun extends the effective interstimulus interval in long-trace taste-aversion conditioning in rats. Behavioral Processes, 65(2),111-21.

45. Misanin, J. R., Anderson, M. J., Christianson, J. P., Collins, M. M., Goodhart, M. G., Rushanan, S., & Hinderliter, C. F. (2002) Low body temperature, time dilation, and long-trace conditioned flavor-aversion in rats. Neurobiology of Learning and Memory, 78(1), 167-177.

Book Chapters

1. Foilb, A.R.**, Christianson, J.P. (2018) Brain mechanisms for learning and using safety signals. In. S. Sangha & D. Foti (Eds), Neurobiology of Abnormal Emotion and Motivated Behaviors: Integrating animal and human neurobiology research. Elsevier, 205-224: ISBN 9780128136935

2. Maier, S. F., Amat, J., Baratta, M. V., Bland, S. T., Christianson, J. P., Thompson, B., Rozeske, R. R., & Watkins, L. R. (2009). The role of the medial prefrontal cortex in mediating resistance and vulnerability to the impact of adverse events. In C. M. Pariente, R. M. Nesse, D. Nutt, & L. Wolpert (Eds.), Understanding depression: a translational approach, Oxford University Press, 157-171.

Conference Proceedings & Published Abstracts since joining BC; > 60 total

1. Djerdjaj, A., Rieger, N.S., Christianson, J.P. Basolateral amygdala projections to the insular cortex mediate social approach to stressed rats. 2019 Proc. Soc. Neurosci. (Chicago)

2. Rieger, N.S., Varela, A., Djerdjaj, A., Christianson, J.P. Corticotropin-releasing factor in the insular cortex increases social exploration in rats. 2019 Proc. Soc. Neurosci. (Chicago)

3. Worley, N.W., Varela, J.A., Gaillardetz, G.P., Hill, M.N., Christianson, J.P. Inhibition of prefrontal monoacylglycerol lipase promotes stress resilience. 2018 Neurobiology of Stress Workshop, Banff, Alberta, Canada. & 2018 Proc. Soc. Neurosci. (San Diego)

4. Rogers-Carter, M.M., Djerdjaj, A., Gribbons, K.B., Christianson, J.P. Insular cortex projections to the nucleus accumbens core modulate social affective behaviors. 2018 Gordon Research Conference on Optogenetics, 2018 Proc. Soc. Neurosci. (San Diego), 2018 Society for Social Neuroscience
5. Djerdjaj, A., Rogers-Carter, M.M., Culp, A., Elbaz, J., Christianson, J.P. Familiarity determines prosocial affective behaviors in female but not male rats. 2018 Proc. Soc. Neurosci. (San Diego), 2018 Society for Social Neuroscience
6. Foilb, A.R., Sansaricq, G., Fernando, K., Christianson, J.P. Sex differences and neural correlates of safety learning. 2018 Neurobiology of Stress Workshop, Banff, Alberta, Canada & 2018 Proc. Soc. Neurosci (San Diego)
7. Rogers, M.R., Varela, J.A., Christianson, J.P. Social affective behaviors activated insular cortex and require PKC. Proc. Soc. Neurosci. (2017)* Also presented at 2017 Boston Area Neuroscience Group Fall Symposium
8. Foilb, A.R., Sarlitto, M.C., Christianson, J.P. The role of posterior insular cortex in recall of remote fear memory. Proc. Soc. Neurosci. (2017)*Also presented at 2017 Gordon Research Seminar: Amygdala in Health & Disease, Stonehill College, and the 2017 Boston Area Neuroscience Group Fall Symposium
9. Naughton, J.R.**, Connolly, T., Varela, J.A., Lundberg, J.*, Burns, M.J., Chiles, T.C., Christianson, J.P., & Naughton, M.J. Shielded Coaxial optrode arrays for neurophysiology. Proc. Soc. Neurosci. (2016)
10. Foilb, A.F.**, Bals, J.* Sarlitto, M.*, Christianson, J.P. Female rats acquire and recall a conditioned safety signal more rapidly than males. Proc. Soc. Neurosci. (2016)
11. Sarlitto, M.* Foilb, A.F.**, Christianson, J.P. Inactivation of the Orbitofrontal Cortex Impairs Fear Discrimination. Proc. Soc. Neurosci. (2016)
12. Rogers, M.M**., Gribbons, K.B.*, McGoey, M.T.*, Varela, J.A., Christianson, J.P. The Insular Cortex is Necessary for Social Affective Behavior in Rat. Proc. Soc. Neurosci. (2016) (also presented at SBN, 2016)
13. Varela, J. A., Krishna, V.*, Christianson, J.P. Oxytocin alters excitatory synaptic transmission in rat insular cortex. Proc. Soc. Neurosci. (2016)
14. Veenema, A.H., Bredewold, R., Varela, J.A., & Christianson, J.P. Vasopressin modulates lateral septum neuronal activity in sex-specific ways in juvenile rats. Proc. Soc. Neurosci. (2015)
15. Foilb, A.R.*, & Christianson, J.P. Conditioned inhibition of fear requires posterior insular cortex for learning, but not recall. Proc. Soc. Neurosci. (2015)
16. Rogers, M. M.*, Pierce, A.F.*, Christianson, J.P. Oxytocin receptors in the insular cortex mediate social affective behavior in rat. Proc. Soc. Neurosci. (2015) *Also presented at the 2015 Center for Neuroendocrine Studies at UMASS Amherst Annual meeting.
17. Naughton, J.R.*, Varela, J.A., Lundberg, J.M.*, Connolly, T.J., Burns, M.J., Chiles, T.C., Christianson, J.P., Naughton, M.J. A neuroelectronic device based on nanocoax arrays. Proc. Soc. Neurosci. & Neuroengineering Satellite Meeting (2015)
18. Varela, J.A., Christianson, J.P. Effects of oxytocin on intrinsic properties of pyramidal neurons in rat insular cortex. Proc. Soc. Neurosci. (2014)
19. Foilb, A.R.*, Flyer-Adams, J.G., Maier, S.F., Christianson, J.P. A+/B- fear discrimination and conditioned inhibition of freezing require NMDA receptor in posterior insular cortex. Proc. Soc. Neurosci. (2014)
20. Flyer, J. G., Christianson, J.P., Watkins, L.R., Maier, S.F. The long-lasting protective effects of controllable stress require ERK in the medial prefrontal cortex. Proc. Soc. Neurosci. (2013)
21. Daut, R.A., Christianson, J.P., Flyer, J.G., Watkins, L.R., Maier, S.F. Controllable versus uncontrollable aversive stimuli differentially trigger ERK signaling in the dorsal striatum. Proc. Soc. Neurosci. (2013)
22. Kubala, K.H., Christianson, J.P., Amat, J., Cooper, D.C., Watkins, L.R., Maier, S.F. Ketamine prevents neurochemical and behavioral consequences of uncontrollable stress. Proc. Soc. Neurosci. (2013)

Works in Progress & Preprints

1. Rieger, N.A., Varela, J.A., Ng, A,. Christianson, J.P. Insular cortex corticotropin releasing factor integrates stress with social decision-making. *In preparation*
2. Rieger, N.A., Ng, A., Christianson, J.P. Maternal immune activation alters offspring social affective behavior and insular cortex sensitivity to corticotropin releasing factor. *In preparation*
3. Rieger, N.A., Christianson, J.P. Social interaction with sick juveniles and the insular cortex. *Data collection.*
4. Worley, N.B., Djerdjaj, A., Christianson, J.P. Convolutional Neural Network Analysis of Social Novelty Preference with DeepLabCut. *bioRxiv* https://doi.org/10.1101/736983
5. Foilb, AF., Christianson, J.P. Insular cortex mediates remote fear memories. *Journal of Neuroscience Research. In revision.*

Invited Presentations

2020 Emory University Conte Center for Social Neuroscience (POSTPONED #COVID-19); IBNS Glasgow (Symposium Chair: A New Perspective on the Role of the Insular Cortex in Cognition and Behavior Based on Pre-Clinical Research, Co-Chair Anna Beyeler) (POSTPONED #COVID-19)

2019 13th World Congress on Neurohypophysial Hormones, Israel; Chair Parallel Symposium: The neural basis for social decision-making (Toni-Lee Sterley, co-Chair); CAN ACN Annual Meeting, Toronto, CA.

2018 Harvard Interdisciplinary Oxytocin Initiative (HMS/MGH); Harvard Neuroendocrine Dialogs; UMASS Boston Developmental and Behavioral Neuroscience Seminar; Boston University Department of Biology; Vassar College Psychology Department; Speaker and "emerging topic" Session Chair Society for Social Neuroscience Annual Meeting; *Winter Conference on Learning and Memory (Invited but weather prevented my travel, talk not given)

2017 Indiana University School of Medicine

2016 Social Brain Sciences Symposium (Brandeis University), Purdue Symposium on Psychological Sciences;

2015 NIMH BRAINS Finalist, IBNS Victoria, British Columbia, Boston College Biology Department Retreat

2014 McLean Hospital

2012 Boston College, Virginia Tech, Georgetown University, Boston University, Emory University, Neurobiology of Stress Workshop, SFN Chair & Presenter "Fear inhibition by learned safety signals"

2011 Earl Stadtman Lecture – NIH, Ithaca College

2010 Bucknell University

2006 St. Anselm College, McLean Hospital; Moravian College, Middlebury College

2005 University of New England School of Osteopathic Medicine (with Robert Drugan).

Reviewing Activities

NIH Study Sections: 2019/10 ZRG1 F01A-F (20) L Fellowships: *Brain Disorders and Related Neurosciences* (June 2019, March 2020, June 2020, standing member); SEP 2017/10 ZAA1 CC (16)1: *Alcohol-PTSD Comorbidity: Preclinical Studies of Models and Mechanisms* (July 2017, ad hoc)

Ad Hoc Grant Reviews: New Zealand Health Research Council (HRC), Human Frontiers Science Program, UK SBS MRC, European Research Council (ERC)

Reviewing (by year since joining BC)

2014: Psychoneuroendocrinology, Brain Research**, Behavioral Pharmacology, Behavioral Brain Research (Awarded "outstanding reviewer")**, Behavioral Neuroscience, Neuroscience and Biobehavioral Reviews; New Zealand Health Research Council (HRC), Progress in Neuropharmacology & Biological Psychiatry**

2015: ACS Neuroscience, Stress, Progress in Neuro-Pharmacology & Biological Psychiatry, Behavioural Brain Research, European Research Council (ERC), Pharmacology, Biochemistry & Behavior, Experimental Gerontology

2016: Neurobiology of Learning and Memory**; Progress in Neuro-Pharmacology & Biological Psychiatry, Pharmacology, Biochemistry & Behavior; The International Journal of Neuropsychopharmacology; Neuropharmacology; Neuropsychopharmacology; The Journal of Psychopharmacology

2017: Neurobiology of Learning and Memory**, Neuropharmacology, The Journal of Psychopharmacology, Behavioural Brain Research**, Stress, Neuropsychopharmacology, Molecular Psychiatry, NIH

2018: Neuropsychopharmacology; Neuropharmacology; Molecular Psychiatry; Psychoneuroendocrinology; Brain, Behavior and Immunity**; Scientific Reports, Nature Neuroscience, Current Biology

2019: Biological Psychiatry, Current Biology, Journal of Neuroscience Research, Journal of Psychopharmacology, Learning & Memory, Neuropsychopharmacology**, Social Neuroscience**

2020: Neuropsychopharmacology**, Journal of Neuroscience Research, Current Biology**, PLoSBiology

** indicates multiple reviews/year

Professional Memberships

- Society for Neuroscience (2001-present)
- Society for Social Neuroscience (2014-present)
- International Behavioral Neuroscience Society (2009-present)
- American Psychological Association, Division 2: Society for the Teaching of Psychology (Student member, 2001-2006)
- American Psychological Society (2001-2006)

Mentoring

Postdoctoral Fellows

Nathaniel Rieger (2018-current), Nicholas Worley (2019-current) Daniel Adams (2014, now at Amgen), Juan Varela (2013-2019)

Graduate Students at Boston College

PhD Students: Anthony, Djerdjaj (expected 2024), Allison Foilb (2019, now Postdoc at McLean Hospital), Morgan Rogers (2019, NSF Grad Research Fellow, now Postdoc at Cleveland Clinic), Nicholas Worley (2019, now Postdoc Boston College)

MA Committees: Rachel Zacharias, Maddie Ray, Eliza Griener, Kristina Wright

PhD Committees: Caroline Smith, Lauren Anderson, Jeffery Naughton (Physics), Michelle Archibald (Biology)

Undergraduate Students at Boston College (h=Honors, current appointment)

2014-15 – Anne Pierce (NIDA, UColorado PhD), Dora Pepo (NE School of Optometry), Andrew Cho (Allen Brain Institute), Ashley Robbins (UPENN-Neuroscience PhD, Veronica Chen (h, Beth Israel Deaconess Medical Center-research assistant)

2015-16 – Mary Sarlitto (h), Vikram Krishna (h, UCLA Medical School), Lucy Xu, Morgan McGoey (BU-PhD Occupational Therapy), Katherine Gribbons, Madelyn Cannone (UPENN-Nursing). Julia Bals (McNair Scholar, HMS/MGH), Jaclyn Lundberg (h), Alexandra Mills (Co-Mentor with L.A. Lowry)

2016-17 – Vera de Boer, Christina Agudelo, Evey Saterfield, Kayla Fernando, Nicholas Park, Meghan Herring, Emily Smith, Alejandra Blanco (NSF REU)

2017-18 – Nicholas Park, Kayla Fernando (h, BIDMC), Gabriella Sansariq (h), Gregory Gailedertz, Amelia Culp (iURF), Joshua Elbaz.

2018-19 – Emily Zona (h), Ayah Badaway (NSF REU), Shanon Lee, Steven Everett

2019-20 – Natali Cortapassi, Bridget Brady, Lindsay Vinceclet, Benjamin Tramonte, Shannon Lee, Haley Greco-Paige, Angela Chen

UROP, BURST, Volunteer & Honors Students at the University of Colorado & University of New Hampshire

2012: Anna Vavra; 2011: Chad Cleerdin, Kelly Boylan, Emily Martersteck; 2010: Daniel Nadler; 2009: Joshua Jennings & Thomas Ragole; 2007: Richard Kaufman & Myra Irani. 2006: Jennifer Lyckland & Sarah Rabbett; 2005: Andrew VanHoogenstyn; 2004: Julia Peters & David Soucy; 2003: Angela Holt.

Teaching

Course	Years Taught
PS583 Molecular Basis of Learning and Memory	2013F, 2016S, 2018S, 2020S
PS285 Behavioral Neuroscience	2014F, 2016F, 2017F, 2018F, 2019F, 2020F
PS384 Neurophysiology	2015S, 2017S, 2019S

Service and Volunteerism

Boston College

- Engineering Department Chair Search Committee
- MCAS Scholar of the College Reviewer, 2019, 2020
- Neuroscience in the Liberal Arts, Program Director, AY2019-20
- Faculty Engineering Task Force, member, 2019S-
- Chair, Institutional Animal Care and Use Committee AY18-20
- VPR Working Groups related to Core Facilities (Microscopy, Data, Integrated Sciences) 2019S-
- Seminar on Science & Belief, Lonergan Institute AY17-18
- University Strategic Planning Research & Science Sub Committee 2 Meetings 2016S
- Office of Sponsored Programs, Responsible Conduct of Research Discussion Leader/Panel Participant All Day March 19, 2016 + planning meeting.
- Institute for Liberal Arts- Governing Board Member (2017-
- University Search Committee: Director Research Integrity & Compliance (2017)
- Institute for Integrated Science "Implementation" committee (begin 2016F)
- University Core Microscopy Committee (2013-
- University Strategic Planning in Integrated Sciences (2014-
    - Integrated Science Curriculum Sub-Committee (Winter 2015)
    - Integrated Science Space planning (Spring 2015)
- Ad hoc reviewing of internal grant proposals for the VPR office (2016-

Psychology Department:

- Psychology Department Graduate Program Committee (2013-15)

- Psychology Department Committee on Senior Hiring Policy (2014-15)
- Psychology Department Neuroscience Major Curriculum Committee (Chair, 2017-2019)
- Psychology Department Vision Committee (2016-present
- Psychology Department "Naming" Committee (2015)
- Psychology Department Diversity & Inclusion Representative (2017-present, Chair 2018-19)
- Psychology Department Behavioral Neuroscience Faculty Search Committee (Chair, 2020-21)

Community

- Chair, NeuroBoston Fall Symposium held at Boston College 11/7/19
- Council Member & Nominations Committee, Boston Area Neuroscience Group (2017-2019)
- "A systems approach to understanding empathy", Symposium Chair & Presenter. 2018 Society for Social Neuroscience Annual Meeting, San Diego, CA.
- Symposium Chair Parallel Symposium: The neural basis for social decision-making (Toni-Lee Sterley, co-Chair, CAN-ACN Annual Meeting, Toronto, CA, 2019)
- Symposium Chair, 2018 Neurobiology of Stress Workshop, Banff, Alberta, CA.
- Symposium Chair: A New Perspective on the Role of the Insular Cortex in Cognition and Behavior Based on Pre-Clinical Research, IBNS Glasgow 2020 (POSTPONED due to COVID-19).
- Chair (shared with Prof. Rebecca Shansky, Northeastern University), 2022 Neurobiology Stress Workshop, Boston, MA.

Prior to joining BC faculty:

- 2012 "Inhibition of fear by learned safety signals" – Minisymposium Chair, Society for Neuroscience Annual Meeting
- 2010 "Neurobiology of Stress" Workshop – Poster session planning committee
- University of Colorado Biological Sciences Initiative: Designed and implemented programs to aid high school teachers in the instruction of neuroscience.
- Habitat for Humanity of the St. Vrain Valley: Chair, Community Relations Committee (2009-2013) & Development Team Member 2007-2013. **Golden Hammer Service Award.
- Graduate Member, UNH Behavioral Neuroscience Search Committee, 2003
- Brain Awareness Week
- UNH Colloquium Coordinator, 2002-03
- "Take a Breath" and "Enough" Fundraising for World Hunger 2003-present. Over $450,000 raised to date.