

Curriculum Vitae

Heather C. Brenhouse

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Education/Employment History

Education

1992-1996	Binghamton University, Binghamton NY B.S. in Psychobiology (<i>Distinguished Honors</i>)
1997-1999	Rutgers University, New Brunswick NJ M.S. in Behavioral Neuroscience <i>Thesis Advisor: Judith M. Stern</i>
2002-2005	Northeastern University, Boston MA Ph.D. in Psychology <i>Thesis Advisor: James R. Stellar</i>
2006-2008	Harvard Medical School, McLean Hospital, Belmont MA Post-Doctoral Fellowship <i>Post-doctoral Advisor: Susan L. Andersen</i>

Employment

1994-1996	Assistant Researcher	Binghamton University
1995	Assistant Researcher	Columbia University
1996-1997	Research Scientist	ARIAD Pharmaceuticals
2000-2002	Research Associate	Alkermes, Inc.
2002	Senior Research Associate	Alkermes, Inc.
2008-2012	Instructor of Psychiatry	Harvard Medical School
2012-	Assistant Professor of Psychology	Northeastern University

Scholarship/Research/Creative Activity

Refereed Journal Articles

note: previous name on early publications: Salzberg

**Graduate student in my lab*

1. Emerich DF and **Salzberg HC** (2001) Update on immunoisolation cell therapy for CNS diseases. *Cell Transplantation*. 10: 3-24.
2. **Salzberg HC**, Lonstein JS, Stern JM (2002) GABA(A) receptor regulation of kyphotic nursing and female sexual behavior in the caudal ventrolateral periaqueductal gray of postpartum rats. *Neuroscience* 144(3):675-87.

3. Emerich DF, Snodgrass P, Lafreniere D, Dean RL, **Salzberg H**, Marsh J, Perdomo B, Arastu M, Winn SR, Bartus RT. (2002) Sustained release chemotherapeutic microspheres provide superior efficacy over systemic therapy and local bolus infusions. *Pharm Res*;19(7): 1052-60
4. **Salzberg-Brenhouse HC**, Chen EY, Emerich DF, Baldwin S, Hogeland K, Ranelli S, Lafreniere D, Perdomo B, Novak L, Fu K, Basile AS, Kordower JH, Bartus RT. (2003) Inhibitors of Cyclooxygenase-2, but not Cyclooxygenase-1 Provide Structural and Functional Protection Against Quinolinic-Acid Induced Neurodegeneration. *J Pharmacol Exp Ther.* 306(1):218-28.
5. Bartus RT, Emerich D, Snodgrass-Belt P, Fu K, **Salzberg-Brenhouse H**, Lafreniere D, Novak L, Lo ES, Cooper T, Basile AS (2004) A pulmonary formulation of L-dopa enhances its effectiveness in a rat model of Parkinson's disease. *J Pharmacol Exp Ther.* 310(2):828-35.
6. **Brenhouse HC** and Stellar JR. (2006) c-Fos and Δ FosB are differentially altered in discrete subregions of the nucleus accumbens shell in cocaine-sensitized rats. *Neuroscience* 137(3):773-80.
7. **Brenhouse HC**, Montalto S, Stellar JR (2006) Electrolytic lesions of a discrete region within the nucleus accumbens shell attenuates the expression, but not induction, of locomotor sensitization to cocaine. *Behav Brain Res.* 170(2):219-23.
8. **Brenhouse HC**, Howe ML, Stellar JR. (2007) Differential activation of cAMP response element binding protein in discrete nucleus accumbens subregions during early and late cocaine sensitization. *Behavioral Neuroscience* 121(1):212-7.
9. **Brenhouse HC**, Sonntag KC, Andersen SL. (2008) Transient D1 dopamine receptor expression on prefrontal cortex projection neurons: Relationship to enhanced motivational salience of drug cues in adolescence. *J. Neuroscience* 28(10):2375-82.
10. **Brenhouse HC** and Andersen SL. (2008) Delayed extinction and stronger reinstatement of cocaine-conditioned place preference in adolescents compared to adults. *Behavioral Neuroscience* 122(2): 460-5.
11. Andersen SL, **Brenhouse HC**, Napierata L, & Sonntag, KC. (2008) Juvenile methylphenidate modulates reward-related behaviors and cerebral blood flow by decreasing cortical D3 receptors. *European Journal of Neuroscience* 27(11):2962-72.
12. **Brenhouse HC**, Napierata L, Kussmaul L, Leussis M, Andersen SL. (2009) Juvenile Methylphenidate Exposure and Factors that Influence Incentive Processing. *Developmental Neuroscience: Special Edited Journal, "Drug Abuse, Addiction and the Developing Brain"* 31(1-2):95-106.
13. **Brenhouse HC**, Dumais K, Andersen SL. (2010) Enhancing the salience of dullness: behavioral and pharmacological strategies to facilitate extinction of drug-cue associations in adolescent rats. *Neuroscience* 169(2):628-36.
14. **Brenhouse HC** and Andersen SL. (2011) Non-steroidal anti-inflammatory treatment prevents delayed effects of early life stress in rats. *Biological Psychiatry* 70(5):434-40. (**selected as Priority Publication**).
15. **Brenhouse HC** and Andersen SL. (2011) Developmental trajectories during adolescence in males and females: a cross-species understanding of underlying brain changes. *Neuroscience and Biobehavioral Reviews: Special Edited Journal, "Passing the Knife Edge in Adolescence: Brain Pruning and Specification of Individual Line of Development"* 35(8):1687-703.
16. Leussis MP, Freund N, **Brenhouse HC**, Thompson BS, Andersen SL. (2012) Depressive-like behavior in adolescents after maternal separation: Sex differences, controllability, and GABA. *Developmental Neuroscience*,

Special Issue on “Animal models of neurological and cognitive disorders with developmental onset” 34(2-3): 210-17

17. **Brenhouse HC**, Lukkes JL, Andersen SL. (2012) Early life adversity alters the developmental profiles of addiction-related prefrontal cortex circuitry. *Brain Sciences, Special Issue on “Addiction and Neuroadaptation”* 34(2-3):210-17.
18. Wieck A, Andersen SL, **Brenhouse HC**. (2013) Evidence for a neuroinflammatory mechanism in delayed effects of early life adversity in rats: Relationship to cortical NMDA receptor expression. *Brain, Behavior, and Immunity* 28:218-26.
19. Sonntag KC, **Brenhouse HC**, Freund N, Thompson BS, Puhl M, Andersen SL. (2013) Viral over-expression of D1 dopamine receptors in the prefrontal cortex increase high-risk behaviors in adults: Comparison with adolescents. *Psychopharmacology* 31(8):1615-26.
20. Holland FH, Ganguly P*, Potter DN, Chartoff EH, **Brenhouse HC**. (2014) Early life stress disrupts social behavior and prefrontal cortex parvalbumin interneurons at an earlier time-point in females than in males. *Neuroscience Letters*, 566:131-6.
21. Freund N, MacGillivray HT, Thompson BS, Lukes JL, Stanis JJ, **Brenhouse HC**, Andersen SL. (2014) Sex-dependent changes in ADHD-like behaviors in juvenile rats following cortical dopamine depletion. *Behav Brain Res*, 270: 357-63.
22. Ganguly P*, **Brenhouse HC**. (2015) Broken or maladaptive? Altered trajectories in neuroinflammation and behavior after early life adversity. *Dev Cogn Neurosci*, 11:18-30.
23. **Brenhouse HC**, Thompson BS, Sonntag KC, Andersen SL. (2015) Extinction and reinstatement to cocaine-associated cues in male and female juvenile rats and the role of D1 dopamine receptor. *Neuropharmacology* 95:22-28.
24. Ganguly P*, Holland FH, **Brenhouse HC** (2015) Functional uncoupling of NMDAR NR2A subunit from PSD-95 in the prefrontal cortex protects against behavioral dysfunction and parvalbumin loss after early life stress. *Neuropsychopharmacology* 40(12):2666-75 (*selected as Editor’s Choice*).
25. do Prado CH*, Narahari T, Holland FH, Lee HN[#], Murthy SK, **Brenhouse HC** (2016) Effects of early adolescent environmental enrichment on cognitive dysfunction, prefrontal cortex development, and inflammatory cytokines after early life stress. *Dev. Psychobiology* 58(4):482-91.
26. Grassi-Oliveira R, Honeycutt JA, Holland FH, Ganguly P*, **Brenhouse HC** (2016) Cognitive impairment effects of early life stress in adolescents can be predicted with early biomarkers: Impacts of sex, experience, and cytokines. *Psychoneuroendocrinology* 71: 19-30.
27. Farrell MR, Holland FH, Shansky RM, **Brenhouse HC** (2016) Sex-specific effects of early life stress on social interaction and prefrontal cortex dendritic morphology in young rats. *Behavioral Brain Research* 310: 119-25.
28. **Brenhouse HC**, Schwarz JM (2016) Immunoadolescence: Neuroimmune development and adolescent behavior. *Neurosci Biobehav Rev, Special Edited Journal, “The Adolescent Brain”* [Epub ahead of print] doi: 10.1016/j.neubiorev.2016.05.035.
29. Tractenberg SG, Levandowski ML, de Azeredo LA, Orso R, Roithmann LG, Hoffmann ES, **Brenhouse H**, Grassi-Oliveira R (2016) An overview of maternal separation effects on behavioural outcomes in mice: Evidence from a four-stage methodological systematic review. *Neurosci Biobehav Rev* [Epub ahead of print] doi: 10.1016/j.neubiorev.2016.06.021

Abstracts Presented at Professional Meetings

*Graduate Student in my lab; #Undergraduate in my lab

1. **Salzberg HC**, Campbell J, Spear LP. (1996) Effects of ethanol-induced hypothermia on ultrasonic vocalization in rat pups.
International Society for Developmental Psychobiology
2. **Salzberg HC**, Lonstein JS, Stern JM (1999) GABA(A) receptor regulation of kyphotic nursing and female sexual behavior in the caudal ventrolateral periaqueductal gray of postpartum rats.
Society for Neuroscience
3. Chen EY, **Salzberg H**, Kordower JH, Bartus RT, Emerich DF. (2002) Flurbiprofen protects striatal neurons in a rodent model of Huntington's disease.
Society for Neuroscience
4. Bartus RT, Emerich DF, **Salzberg H**, Lafreniere D, Novak L, Lo E-S, Cooper T, and Basile A. (2002) Pulmonary delivery of L-Dopa produces more rapid and robust plasma elevations, brain dopamine activity and behavioral improvements in Parkinsonian rodents, compared to oral delivery.
American College of Neuropsychopharmacology (ACNP)
5. Zito DM, **Brenhouse HC**, Dean RL, Stellar JR. (2004) Effect of dominance on cocaine-induced intracranial self-stimulation.
Society for Neuroscience
6. Walsh SW, Stellar JR and **Brenhouse HC**. (2004) Excitotoxic lesions of the dorsomedial shell of the nucleus accumbens attenuate sensitization to cocaine.
Society for Neuroscience
7. **Brenhouse HC**, Brown, K. Siniakowicz and McLaughlin JP. (2005) Mediation of cocaine- and stress-induced sensitization by desensitized kappa opioid receptors.
International Narcotics Research Conference
8. **Brenhouse HC**, Andersen SL and Stellar JR. (2005) Age-related differences in mesolimbic brain-derived neurotrophic factor in cocaine-sensitized rats.
Society for Neuroscience
9. **Brenhouse HC**, Andersen SL. (2007) Emergence of drug-seeking behavior in juveniles: enhanced risk after cortical D₁ dopamine receptor stimulation
Society for Biological Psychiatry; Society for Neuroscience 2006
10. **Brenhouse HC**, Sonntag KC, Andersen SL. (2008) Cell-type overexpression of the D1 dopamine receptor in prefrontal cortex projection neurons enhances drug seeking in juvenile and adult rats.
Society for Neuroscience
11. **Brenhouse HC**, Andersen SL. (2009) Misguided development of cortical microcircuitry and of delayed response performance after early life stress.
Society for Neuroscience
12. **Brenhouse HC**, Andersen SL. (2009) Altered Cortical Development and Working Memory Deficits After Early Life Stress.
Society of Biological Psychiatry-Oral Presentation
13. **Brenhouse HC**, Freund N, Thompson B, Sonntag KC, and Andersen SL. (2011) Genetically-engineered overexpression of cortical D1 receptors on glutamatergic outputs alters impulsivity and reward processing.
American College of Neuropsychopharmacology (ACNP)

14. **Brenhouse HC**, Wieck A, Andersen SL. (2012) Evidence for neuroinflammatory regulation of cortical parvalbumin loss after early life stress—an opportunity for intervention.
Society of Biological Psychiatry
15. Andersen SL, **Brenhouse HC**, Thompson BS. (2012) The Maturation of Extinction and Reinstatement of Cocaine-Associated Cues: Sex Differences
Society of Biological Psychiatry
16. **Brenhouse HC**, Backus T[#], Holland F. (2013) Can peripheral inflammatory biomarkers predict delayed effects of early life stress?
Society for Neuroscience: Nanosymposium Oral Presentation
17. Farrell MR, Holland F, **Brenhouse HC**, Shansky RM. (2013) Early-life stress effects on social interaction and medial prefrontal cortex dendritic morphology in young male and female rats
Society for Neuroscience
18. Andersen SL, **Brenhouse HC**, Freund N, Thompson B, Sonntag K. (2013) The emergence of adolescent high-risk behavior and the mechanism that causes drug-cue associations to endure into adulthood
Society for Neuroscience
19. Ganguly P*, Holland F, **Brenhouse HC** (2014) Identification of Early Predictive Inflammatory Biomarkers for Behavioral Deficits After Varying Degrees of Early Life Stress
Society of Biological Psychiatry; **Nominated for “Best Poster”**
20. Ganguly P*, **Brenhouse HC** (2014) Functional uncoupling of a single NMDA subunit in the prefrontal cortex protects against behavioral dysfunction after early life stress.
American College of Neuropharmacology (ACNP)
21. Golan N[#], Backus T[#], Holland FH, **Brenhouse HC** (2014) Impact of adolescent social defeat stress on enduring cognitive effects from early life stress: A preliminary study in rats
Society for Neuroscience
22. Ganguly P*, Holland FH, **Brenhouse HC** (2015) Maternal separation increases IBA-1 expression-- a microglia activation marker— in the prefrontal cortex of adolescent males following a second hit of stress.
Society of Biological Psychiatry
23. Thompson V*, Ganguly P*, **Brenhouse HC** (2015) Can environmental enrichment protect against oxidative stress, parvalbumin loss, and behavioral deficits after early life stress? A preliminary study
Society for Neuroscience
24. Ganguly P*, **Brenhouse HC** (2015) Developmental and sex-dependent effects of early life stress on glutamate receptor expression
Society for Neuroscience
25. **Brenhouse HC**, Stroiney A[#], Moore K, and Ferris C (2015) Manganese-enhanced magnetic resonance imaging (MEMRI) reveals altered activation of a corticolimbic circuit in early adolescent rats exposed to postnatal stress
American College of Neuropharmacology (ACNP)
26. Ganguly P*, Shah S[#], Coley E[#], and **Brenhouse HC** (2016) Lipopolysaccharide-induced changes in adolescent prefrontal cortex AMPA receptors after early life stress
Society for Neuroscience: Nanosymposium Oral Presentation
27. Goff SA[#], Thompson V, Ganguly P*, and **Brenhouse HC** (2016) Early life stress increases microglia activation in juvenile rats and confers sensitization in microglia to LPS induced immune activation

Society for Neuroscience: Nanosymposium Oral Presentation

28. Honeycutt JA and **Brenhouse HC** (2016) Early life stress leads to sex-dependent precocious limbic innervation into the PFC: a putative mechanism of stress-related pathological vulnerability
Society for Neuroscience: Nanosymposium Oral Presentation

Grants

EXTERNAL

- 2008-2010 “Misguided development of corticolimbic circuitry after early life stress: Early intervention with a novel treatment strategy”
NARSAD Young Investigator Award
Brenhouse, PI \$56,000
- 2008-2010 “Facilitating extinction in adolescents”
NIDA 1R03DA025816-01
Brenhouse, PI \$150,000
- 2011-2013 “Altered neuroinflammatory responding after early life stress: a mechanism for vulnerability to psychopathology”
NARSAD Young Investigator Award
Brenhouse, PI \$60,000
- 2013-2015 “Targeting and preventing the mechanistic basis of risk after early life stress”
NIMH 1R21MH097182-01A1
Brenhouse, PI \$275,000
- 2016-2021 “Developmental and Sex-Dependent Targets for Prevention after Early Life Stress”
NIMH 1R01MH107556-01A1
Brenhouse, PI \$1,250,000
- 2017-2018 “*Chemogenetic manipulation of astrocytes as a novel strategy to prevent cognitive dysfunction in vulnerable adolescents*”
Fay Frank Brain Research Foundation; Proposal nominated for submission by Northeastern

INTERNAL

- 2014-2015 “ Identification of Biomarkers to Predict and Prevent Mental Illness”
Northeastern TIER 1 Seed Grant
Brenhouse, Murthi Co-PIs \$50,000
- 2016-2017 “Identifying cell-type specific targets for prevention of mental illness”
Northeastern TIER 1 Seed Grant
Brenhouse, Miller Co-PIs \$50,000

Speaking Engagements

International

- 2010 Misguided development: The effects of early life stress on prelimbic prefrontal cortex circuitry and working memory in rats
Symposium, International Behavioral Neuroscience Society Meeting, Sardinia, Italy
- 2016 Cognitive impairment effects of early life stress in adolescents can be predicted with early

biomarkers: Impacts of sex, experience, and cytokines.
Symposium, Society for Behavioral Neuroendocrinology Meeting, Montreal, Canada

National

- 2013 Delayed effects of early life stress on cognitive and social development: Neuroinflammation plays a role
Invited Speaker, Flux Congress for Developmental Cognitive Neuroscience, Pittsburgh PA
- 2014 Sexually dimorphic and developmental effects of maternal separation on prefrontal cortex, behavior and inflammation in rats
International Behavioral Neuroscience Society Meeting, Las Vegas, Nevada
- 2015 Early life adversity derails development: Effects on brain, behavior, and immunity
Invited Speaker, Rutgers University, New Brunswick NJ
- 2015 NR2A overexpression in the prefrontal cortex of maternally-separated adolescents
Symposium, University of Connecticut, CT
- 2016 A role for the NMDAR subunit NR2A in adolescent effects of early life stress
Symposium, Winter Conference for Brain Research, Breckenridge, CO (symposium chair)
- 2016 Effects of early life stress on glutamate receptor development: Primed for anxiety?
Invited Speaker, Providence College, RI
- 2016 Too Much Too Young: Developmental effects of early life stress on corticolimbic connectivity and neuroimmune interactions
Panel, American College of Neuropsychopharmacology (symposium co-chair)
- 2017 (planned) Neuroinflammatory and glutamate receptor interactions in the delayed effects of early life stress
Symposium, Winter Conference for Brain Research, Big Sky, MT
- 2017 (planned) Cognitive impairment effects of early life stress in adolescents can be predicted with early biomarkers: Impacts of sex, experience, and cytokines.
Symposium, Society for Research in Child Development, Austin, TX

Local/Regional

- 2008 The role of cortical D1 receptors in adolescent motivational conditioning
Grand Rounds, McLean Hospital, Belmont MA
- 2009 Effects of early life stress on psychiatric diseases
NARSAD Boston Symposium, Boston MA (Sponsored by NARSAD)
- 2010 Effects of early-life stress on prefrontal cortical circuitry
Seminar to the Laboratory of Behavioral Genetics, McLean Hospital, Belmont MA
- 2012 How to disarm a time bomb McLean Research Day Brief Communications
McLean Research Day Brief Communications, McLean Hospital, Belmont MA
- 2012 Evidence for neuroinflammatory influences on early life stress effects in the prefrontal cortex
Seminar to the Translational Neuroscience Laboratory, McLean Hospital, Belmont MA
- 2013 Evidence for neuroinflammatory influences on early life stress risk for psychiatric disease
*Invited Seminar in Biology
Seminar, Stonehill College, Easton MA*
- 2013 Neuroinflammatory and glutamate receptor interactions in the delayed effects of early life stress
Colloquium, Dept. of Pharmaceutical Sci., Northeastern University, Boston MA
- 2014 How to Disarm a Time Bomb: Targeting neurocircuitry and inflammation to prevent mental illness after early life stress

Seminar, Mt. Holyoke College, South Hadley MA

- 2014 Evidence for neuroinflammatory influences on early life stress risk for psychiatric disease
Seminar, Harvard Medical School, Boston Children's Hospital
- 2014 Neuroinflammatory mechanisms underlying enduring deficits following early life stress
Seminar to the Center for Depression, Anxiety and Stress Research, McLean Hospital, Belmont MA
- 2017 (planned) Corticolimbic development is derailed in adolescence following early life stress in a sex-specific manner
Seminar, McLean Hospital Imaging Center, Belmont MA

Teaching and Advising

Courses

2002-2003	Introduction to Psychology, Physiological Psychology Lab	Northeastern (<i>Teaching Assistant</i>)
Spring 2009	Seminar in Psychobiology	Northeastern (<i>Co-Instructor</i>), 19 students
Spring 2010	Psychobiology Laboratory	Northeastern, 19 students
2011-2012	The Hijacked Brain: Neurobiology of Addiction Tutorial	Harvard University, 12 students
Spring 2013	Clinical Neuroscience	Northeastern, 46 students
Fall 2013	Clinical Neuroscience	Northeastern, 59 students
Spring 2014	Seminar in Psychology: Brain, Body and Behavior	Northeastern, 17 students
Fall 2014	Clinical Neuroscience	Northeastern, 75 students
Fall 2014	Seminar in Biological Psychology: Brain, Body and Behavior	Northeastern, 16 students
Spring 2015	Clinical Neuroscience	Northeastern, 75 students
Fall 2015	Brain, Behavior, and Immunity	Northeastern, 75 students
Spring 2016	Clinical Neuroscience	Northeastern, 65 students
Spring 2016	Seminar in Biological Psychology	Northeastern, 21 students
Fall 2016	Seminar in Biological Psychology	Northeastern, 13 students
Fall 2016	Graduate Clinical Neuroscience Proseminar	Northeastern, 10 students

Supervised Graduate Students

- 2013- Parbarna Ganguly; Doctoral student; Masters Thesis: "Functional uncoupling NMDAR NR2A subunit from PSD-95 in the prefrontal cortex: Effects on behavioral dysfunction and parvalbumin loss after early life stress"
- 2016- Kelsea Gildawie; Doctoral student
- 2014-2015 Vanessa Thompson; Doctoral student
- 2015 Carine do Prado; Visiting Doctoral student from PUCRS, Brazil

Supervised Undergraduate Students

Directed Study

- Thomas Backus

- Elena Coley
- Emily Doucette *received Provost Award for Undergraduate Research
- Kei Inge
- Mia Musetti
- Tara Srirangarijan
- Thomas Viccaro

Co-op

- Mary (Ha-Neul) Lee
- Gerard O'Neil
- Shelby Goff

Volunteer Research Assistants

- Lauren Boehm *received Northeastern Martinez Research Fellowship
- Courtney Brown
- Camila Demaestri *received Northeastern Martinez Research Fellowship
- Arielle Edelheit *received Northeastern Martinez Research Fellowship
- Noa Golan (Honors Thesis) *received Provost Award for Undergraduate Research
- Sarah Keith
- Shayna Peterzell
- June Rowe-Hill *received Northeastern Martinez Research Fellowship
- Saloni Shah
- Jeremiah Slutsky
- Victoria Smith
- Alexa Vidalis
- Alex Whitehead
- Lauren Wroblewski

Service and Professional Development

Department Service

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| 2012 | Visit/Talk to Psych Club |
| 2013 | Tina Gruene, Master's committee |
| 2013,2014, 2015 | PSYC1000 visit to discuss research and career trajectory |
| 2014 | Psychology Department Colloquium host |
| 2014, 2015, 2016 | Merit Review Committee, Psychology Department |
| 2014-2015 | Erienne Weinne, PhD committee |
| 2015-2016 | Tom Morrison, PhD committee |
| 2015-2016 | Jin Goh, PhD committee |
| 2015 | Cognitive faculty search committee |
| 2016 | Psychology Department Colloquium host |
| 2016 | Affective Neuroscience faculty search committee |

College Service

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| 2014 | Behavioral Neuroscience Steering Committee, Northeastern University |
| 2014 | Exploratory Committee for potential Psychopharmacology Professional Masters Program |
| 2015 | Search Committee for Behavioral Neuroscience Lecturer |

University Service

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| 2012 | Northeastern University Science Careers Panelist |
| 2013, 2014, 2016 | Faculty Marshal, graduation ceremony |
| 2015 | Taught University Scholars Masters Class |

2015-2016 Hiram Patel, PhD committee
2016 Resume reviewer; GWISE "Resume Lightning Round"

Service to the Discipline/Profession

2008 McLean Post-Doc Association Steering Committee
2011-2012 McLean Institutional Animal Care and Use Committee (IACUC)
2012 Panelist in workshop, "Thinking about a Career as a Researcher?" for Visiting Student Researchers from Harvard and other universities
2013 Panelist in postdoctoral forum on Job Searches, Massachusetts General Hospital
2013, 2016 Chair, Society for Neuroscience Nanosymposium

External PhD Committees

2013 Mateus Levandowski (Pontificia Universidade Católica, Brazil)
2015 Gizem Uzturk (Tufts University)

Grant Reviews

2015 NIH grant reviewer (PMDA study section)
2015 Grant reviewer for Research Councils UK (RCUK)

Ad Hoc Reviewer for:

- Psychopharmacology
- International Journal of Developmental Neuroscience
- Brain Research Bulletin
- Neuropsychopharmacology
- Neurobiology of Learning and Memory
- Hormones and Behavior
- PLoS One
- Neuroscience Biobehavioral Reviews
- Developmental Psychobiology
- Translational Psychiatry
- BMC Psychiatry
- Bipolar Disorders
- Translational Medicine
- Developmental Cognitive Neuroscience
- Neural Plasticity
- Schizophrenia Bulletin
- Brain, Behavior, and Immunity
- Behavioral Brain Research
- Neurobiology of Learning and Memory
- International Journal of Developmental Neuroscience

Service to the Community/Public

2007 Panel presentation at Society for Neuroscience press conference, Washington DC
2010 Lecture given at a Depression Bipolar Support Alliance (DBSA) Meeting, Belmont MA
2011 Lecture given to Acton-Boxborough High School Biology Students, Acton MA
2012 Keynote speaker at Children's Mental Health Awareness Day, The SHINE Initiative, Leominster, MA
2013 Guest speaker at meeting National Alliance for Mental Illness (NAMI) chapter meeting, Worcester, MA
2014 Speaker at Mental Health Conference, The SHINE Initiative, Mount Wachusett Community College, MA
2016 Community outreach, Winter Conference for Brain Research
2013-present Team Manager/Coach, Massachusetts Destination Imagination Program (Project-based competition for elements through high school aimed to teach innovation and creativity)

Honors and Awards

1996 Distinguished Honors in Independent Research Binghamton University
2005 Travel Award International Narcotics Research Conference
2007 Featured paper (Brenhouse et al., 2007) Faculty of 1000 Literature Collection
2008 Alfred Pope Award McLean Hospital
2012 Certificate of Distinction in Teaching Harvard University
2013 Early Career Reviewer National Institute of Health

2014	Nominated; Excellence in Teaching Award	Northeastern University
2016	Elected as Associate Member	American College of Neuropsychopharmacology (ACNP)

Professional Memberships

1997-	Society for Neuroscience (SfN)
2015-	International Society for Developmental Psychobiology (ISDP)
2016-	American College of Neuropsychopharmacology (ACNP)