

DIONNET L BHATTI

PhD Candidate in Neuroscience, Harvard University

✉ dbhatti@g.harvard.edu

📍 [Boston, MA](#)

🌐 [personal website](#)

📄 [scholar page](#)

🌳 [neurotree](#)

EDUCATION

2019 - Present **PhD in Neuroscience**
Harvard University

2011 - 2015 **BS in Biology and Psychology**
University of Georgia

POSITIONS

2019 - Present **Graduate Student**
Harvard Medical School, BCH - FM Kirby Neurobiology Center
Advisor: Todd E. Anthony, PhD

2017 - 2019 **Research Assistant**
The Rockefeller University
Advisor: Paul Greengard, PhD and Yong Kim, PhD

2015 - 2017 **Research Technician**
Washington University
Advisor: Michael R. Bruchas, PhD

2014 - 2015 **Undergraduate Research Assistant**
University of Georgia
Advisor: Philip V. Holmes, PhD

HONORS, AWARDS, AND FELLOWSHIPS

2021 **Selected Attendee**, IBRO-RIKEN CBS Summer Program 2021, Japan (Virtual due to COVID19)

2020 **Travel Award**, International Behavioral Neuroscience Society Conference, Glasgow.
(Cancelled due to COVID19)

2019 - 2022 **Graduate Research Fellowship**, National Science Foundation (NSF GRFP)

2019 - 2021 **Neuroscience Scholar Program (NSP) Fellowship**, Society for Neuroscience

2019 - 2021 **Graduate Prize Fellowship**, Harvard University

2015 **CURO Research Scholar**, University of Georgia

2014 **Summer Research Fellowship**, New York University - Center for Neural Science; Neurobiology of Cognition Laboratory; PI: André Fenton

2014 **CURO Research Assistantship Award**, University of Georgia

2011 - 2015 **HOPE Scholarship**, Georgia Student Finance Commission

2011 - 2015 **Broad Prize Scholarship**, The Broad Foundation

MEMBERSHIPS AND SERVICE

2021 - Present **Co-president**, Underrepresented Scholars in Neuroscience (USN), Harvard University

2020 - Present **Diversity and Inclusion Core Committee Member**, Dept. of Neurobiology, Harvard Medical School

2021 **Graduate Student Interviewer**, Program in Neuroscience Admissions Committee, Harvard University

2020 **Ad-hoc Reviewer**, *Behavioural Brain Research*

2020, 2021 **Reviewer**, Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) Conference

2019 - Present **Member**, International Behavioral Neuroscience Society (IBNS)

2019 - Present **Executive Board Member**, Underrepresented Scholars in Neuroscience (USN), Harvard University

2014 - Present **Member**, Society for Neuroscience (SfN)

2014 - 2015 **Member**, Undergraduate Neuroscience Organization, University of Georgia

TEACHING AND MENTORSHIP

Fall 2021 **Teaching Fellow**, *Neuro80 - Neurobiology of Behavior*, Harvard College

2020 - 2021 **Laboratory mentor**, *Beatrice Castillo-Sahugan*; Undergraduate, Harvard College

2016 - 2017 **Laboratory mentor**, *Hannah Oden-Brunson*; Undergraduate, Washington University

2016-2017 **Laboratory mentor**, *Kate Kimbell*; Undergraduate, Washington University

PUBLICATIONS (*indicates equal contribution)

2021	13. Bhatti DL , Medrihan L, Chen MX, Jin J, Wang W, Azevedo E, Ledo J, and Kim Y Molecular and cellular adaptation in hippocampal parvalbumin neurons mediates divergent behavioral responses to chronic social stress	<i>Under Review (bioRxiv)</i>
	12. Luskin AT*, Bhatti DL* , Pedersen CE, Mulvey B, Oden-Brunson H, ... , Bruchas MR Extended amygdala-parabrachial circuits alter threat assessment and regulate feeding	<i>Science Advances (bioRxiv)</i>
2020	11. Jin J, Bhatti DL , Lee KW, Medrihan L, Cheng J, Wei J, ..., Greengard P, Kim Y Ahnak scaffolds p11/Anxa2 complex and L-type voltage-gated calcium channel and modulates depressive behavior	<i>Molecular Psychiatry</i>
2019	10. Hooversmith JM, Bhatti DL , and Holmes PV Galanin administration into the prelimbic cortex impairs consolidation and expression of contextual fear conditioning	<i>Behavioural Brain Research</i>
	9. Parker KE*, Pedersen CE*, Gomez AM*, ..., Bhatti DL , ..., Bruchas MR A paranigral VTA nociceptin circuit that constrains motivation for reward	<i>Cell</i>
	8. Massaly N, Copits BA, Wilson-Poe AR,..., Bhatti DL , ..., Bruchas MR, Moron JA Pain-induced negative affect is mediated via recruitment of the nucleus accumbens kappa opioid system	<i>Neuron</i>
2018	7. Mulvey B, Bhatti DL , ..., Bruchas MR, Heintz N, Dougherty JD Molecular and functional sex differences of noradrenergic neurons in the locus coeruleus	<i>Cell Reports</i>
	6. Lu L*, Gutruf P*, Xia L*, Bhatti DL* , ..., Bruchas MR, Rogers JA Wireless optoelectronic photometers for monitoring neuronal dynamics in the deep brain	<i>PNAS</i>
2017	5. McCall JG*, Siuda ER*, Bhatti DL , Lawson LA, McElligott ZA, Stuber GD, Bruchas MR Locus coeruleus to basolateral amygdala noradrenergic projections promote anxiety-like behavior	<i>eLife</i>
2016	4. Park SI, Shin G, McCall JG, Al-Hasani R, ..., Bhatti DL , ..., Bruchas MR, Rogers JA Stretchable multichannel antennas in wireless optoelectronic implants for optogenetics	<i>PNAS</i>
	3. Seo DO*, Funderburk SC*, Bhatti DL , ... , Krashes M, Sparta DR, Bruchas MR A GABAergic projection from the centromedial nuclei of the amygdala to ventromedial prefrontal cortex modulates reward behavior	<i>Journal of Neuroscience</i>
	2. Siuda ER, Al-Hasani R, McCall JG, Bhatti DL , Bruchas MR Chemogenetic and optogenetic activation of gas signaling in the basolateral amygdala induces acute and social anxiety-like states	<i>Neuropsychopharmacology</i>
2015	1. Simone J, Bogue EA, Bhatti DL , Day LE, Farr NA, Grossman AM, Holmes PV Ethinyl estradiol and levonorgestrel alter cognition and anxiety in rats concurrent with a decrease in tyrosine hydroxylase expression in the locus coeruleus and brain-derived neurotrophic factor expression in the hippocampus	<i>Psychoneuroendocrinology</i>

PRESENTATIONS

11. **D.L. Bhatti** and T.E. Anthony (2021). Experience-dependent encoding of threat stimuli by lateral septum *Crf2* neurons. Virtual Poster, IBRO-Riken CBS Summer Program, Tokyo, Japan.
10. **D.L. Bhatti**, A. Luskin, ... , R.W. Gereau, J.D. Dougherty, M.R. Bruchas. (2019). Extended amygdala-parabrachial circuits alter threat assessment and control feeding. Poster, Society for Neuroscience Diversity Session, Chicago.
9. **D.L. Bhatti** A. Luskin, C.E. Pedersen, K. Kimbel, H. Oden-Brunson, R.W. Gereau, M.R. Bruchas. (2018). Extended amygdala-parabrachial circuits alter threat perception and encode feeding behavior. Poster, Society for Neuroscience, San Diego.
8. **D.L. Bhatti**, L. Lu, L. Xia, P. Gutruf, J.A. Rogers, M.R. Bruchas (2016). Wireless photometry for in vivo behavioral studies of neural circuit function. BRAIN Initiative Investigators Meeting, Bethesda, MD.
7. **D.L. Bhatti**, M.R. Bruchas (2016). The role of extended amygdala input to the locus coeruleus in motivated behaviors. Poster, Society for Neuroscience, San Diego.
6. **D.L. Bhatti**, Robert W. Gereau, M.R. Bruchas (2016). Extended amygdala input to the locus coeruleus drives motivated behaviors. Poster, WashU Neuroscience Retreat.
5. **D.L. Bhatti**, J.M. Smith, P.V. Holmes. (2015). Galanin administration intra-vmPFC suppresses expression of conditioned contextual fear and modulates plasticity during fear extinction. Poster, Society for Neuroscience, Chicago.
4. **D.L. Bhatti**, F.T. Sparks, A.A. Fenton (2014). Cognitive Flexibility in the Autism Spectrum Disorder Fmr1-KO Mouse Model. Poster, Summer Student Conference at NYU, New York, NY.
3. **D.L. Bhatti**(2015). Acute intra-vmPFC injections of galanin reduce expression of conditioned contextual threat and prevent threat-related plasticity in rats. Talk, UGA CURO Symposium, Athens, GA.
2. **D.L. Bhatti** (2014). Cognitive Flexibility in the Fmr1-KO Mouse Model of Autism Spectrum Disorder. Talk, NYU/CNS Summer Undergraduate Research Symposium, New York, NY.
1. **D.L. Bhatti**, J. Simone, P.V. Holmes (2014). Ethinyl Estradiol and Levonorgestrel Impair Novel Object Recognition Memory

