DIONNET L BHATTI

PhD Candidate in Neuroscience, Harvard University

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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

2020 **Travel Award**, International Behavioral Neuroscience Society Conference

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

2020 - Present **Diversity and Inclusion Core Committee Member,** Dept. of Neurobiology, Harvard Medical School
Member of the core committee consisting of five administrators and faculty and two students from the Harvard Underrepresented Scholars in Neuroscience group. The primary goals of the committee are to create resources for diversity and inclusion efforts, monitor milestones and progress, and oversee four subcommittees including departmental in-reach, out-reach, training, and education.

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

2020 - Present **Peer Mentor,** Program in Neuroscience, Harvard University

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

2020 **Reviewer for Travel Awards,** 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, Harvard University
Member of the USN executive board which consists of nine members of USN whose primary role is to organize funds, events, and resources for underrepresented scholars in neuroscience with the goal of creating and preserving inclusive spaces for trainees at Harvard University.

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

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

PUBLICATIONS (*indicates equal contribution)

2021	11. **Bhatti DL**, Medrihan L, Chen MX, Jin J, McCabe K, and Kim Y Molecular and cellular adaptation in hippocampal parvalbumin neurons mediates divergent behavioral responses to chronic social stress	*Under Review*
	13. **Bhatti DL***, Luskin AT*, Pedersen CE, Mulvey B, Oden-Brunson H, ... , Bruchas MR Extended amygdala-parabrachial circuits alter threat assessment and regulate feeding	Accepted to *Science Advances (bioRxiv)*
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	*Molecular Psychiatry*
2019	10. Hooversmith JM, **Bhatti DL**, and Holmes PV Galanin administration into the prelimbic cortex impairs consolidation and expression of contextual fear conditioning	*Behavioural Brain Research*
	9. Parker KE*, Pedersen CE*, Gomez AM*, ..., **Bhatti DL**, ..., Bruchas MR A paranigral VTA nociceptin circuit that constrains motivation for reward	*Cell*
	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	*Neuron*
2018	7. Mulvey B, **Bhatti DL**, ..., Bruchas MR, Heintz N, Dougherty JD Molecular and functional sex differences of noradrenergic neurons in the locus coeruleus	*Cell Reports*
	6. Lu L*, Gutruf P*, Xia L*, **Bhatti DL***, ..., Bruchas MR, Rogers JA Wireless optoelectronic photometers for monitoring neuronal dynamics in the deep brain	*PNAS*
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	*eLife*
2016	4. Park SI, Shin G, McCall JG, Al-Hasani R, ..., **Bhatti DL**, ..., Bruchas MR, Rogers JA Stretchable multichannel antennas in wireless optoelectonic implants for optogenetics	*PNAS*
	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	*Journal of Neuroscience*
	2. Siuda ER, Al-Hasani R, McCall JG, **Bhatti DL**, Bruchas MR Chemogenetic and optogenetic activation of gαs signaling in the basolateral amygdala induces acute and social anxiety-like states	*Neuropsychophamacology*
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	*Psychoneuroendocrinology*

PRESENTATIONS

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 Levonorgrestrel Impair Novel Object Recognition Memory in Female Rats. Poster, Southeast Neuroscience Conference, Augusta, GA.