

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

- 2020 **Selected Attendee**, IBRO-RIKEN CBS Summer Program 2021, Japan
- 2019 - 2022 **Travel Award**, International Behavioral Neuroscience Society Conference, Puerto Vallarta, Mexico
- 2019 - 2021 **Graduate Research Fellowship**, National Science Foundation (NSF GRFP)
- 2019 - 2021 **Neuroscience Scholar Program (NSP) Fellowship**, Society for Neuroscience
- 2015 **Graduate Prize Fellowship**, Harvard University
- 2014 **CURO Research Scholar**, University of Georgia
- 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

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
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, 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
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	13. 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	<i>Under Review</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

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 in Female Rats. Poster, Southeast Neuroscience Conference, Augusta, GA.

MENTORING

3. *Beatrice Castillo-Sahugan*; Undergraduate, Harvard University (2020-Present)
2. *Hannah Oden-Brunson*; Undergraduate, Washington University (2016-2017)
Currently a Medical Student at Baylor College of Medicine
1. *Kate Kimbell*; Undergraduate, Washington University (2016-2017)
Currently a Clinical Associate at Abbott Laboratories