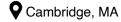
DIONNET L BHATTI MAZO

PhD Candidate in Neuroscience, Harvard University









EDUCATION

2019 - Present **PhD in Neuroscience**

Harvard University, Cambridge MA

BS in Biology and Psychology University of Georgia, Athens GA 2011-2015

RESEARCH POSITIONS

2019 - Present	Graduate student , Harvard Medical School, Department of Neurobiology Advisors: Gord Fishell, PhD (2022-present) and Todd E. Anthony, PhD (2020-2022)
2017-2019	Research assistant, The Rockefeller University, Laboratory of Molecular and Cellular Neuroscience Advisors: Paul Greengard, PhD and Yong Kim, PhD Focus: Cellular and molecular basis of stress-induced behavioral adaptations
2015-2017	Research technician , Washington University in St. Louis, Department of Anesthesiology Advisor: Michael Bruchas, PhD Focus: Neural circuits and motivated behavior
2014-2015	Undergraduate research assistant, University of Georgia, Department of Psychology Advisor: Phillip V. Holmes, PhD Thesis: Acute galanin administration into the prelimbic cortex reduces expression of conditioned contextual threat and prevents threat-related plasticity in rats

GRANTS, AWARDS, AND FELLOWSHIPS

2024	Excellence in Service Award, Harvard University Program in Neuroscience
2024-2025	NIMH R36 Dissertation Grant Award (R36MH136796):
	Molecular and Functional Organization of Lateral Septum in Threat Processing
2022 - 2023	NIMH Diversity R01 Supplement Award (R01MH117421-04S1)
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	NSF GRFP, National Science Foundation Graduate Research Fellowship
2019 - 2022	Neuroscience Scholar Program (NSP) Fellowship, Society for Neuroscience
2019 - 2021	Graduate Prize Fellowship, Harvard University
2015	CURO Research Scholar, University of Georgia
2014	Summer Undergraduate Research Fellowship, New York University - Center for Neural Science;
2014	Neurobiology of Cognition Laboratory; PI: André Fenton
2011-2015	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

2024	Symposium Chair, Molecular and functional organization of the lateral septum, Society for Neuroscience
2021 - 2023	Co-president, Underrepresented Scholars in Neuroscience (USN), Harvard University
2020 - 2022	Diversity and Inclusion Core Committee Member, Dept. of Neurobiology, Harvard Medical School
2021 - 2022	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
2020, 2021	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)

TEACHING AND MENTORSHIP

Mentees:

Marc Berger, Undergraduate research assistant, Tufts University (Summer 2024 - Present) Amelie Kinsey, Co-op research assistant, Northeastern University (Summer 2024 - Present) Alexandra Lewis; Co-op research assistant, Northeastern University (January - June 2024) Lala Mkhiryan; Research assistant/Lab manager, Boston Children's Hospital (2022-2023) Nicolas Péna; Rotating Graduate Student, Harvard Medical School/Boston Children's Hospital (Summer 2022) Amanda Pasqualini, Research assistant, Boston Children's Hospital (2021-2023) Beatrice Castillo-Sahugan, Undergraduate, Harvard College (2021-2022) Hannah Oden-Brunson, Undergraduate, Washington University (2016-2017) Kate Kimbell; Undergraduate, Washington University (2016-2017)

Teaching:

Fall 2021-2024

Teaching Fellow, Neurobiology of Behavior (Neuro80), Harvard College

PUBLICATIONS IN PREPARATION (# indicates corresponding author)

- 1. Bhatti Mazo DL#, Pasqualini AL, Brito SI, Wu SJ, Levitt P, Anthony TE, Fishell G. Functional organization of defensive decisions and action in lateral septum. *corresponding author
- 2. Kinsey A, Fishell G, Bhatti Mazo DL#. Lateral septal dynamics reflect uncertainty to guide reward-based decisions. *corresponding author

LEAD AUTHOR PUBLICATIONS (* indicates equal contribution)				
2024	13. Bhatti DL , Jin J, Cheng J, McCabe K, Lee KW, Beradso C, Sinha S, Kim Y. <u>Ahnak in the prefrontal cortex mediates behavioral correlates of stress resilience and rapid antidepressant-like action in mice</u> .	Frontiers in Molecular Neuroscience		
2022	12. Bhatti DL , Medrihan L, Chen MX, Jin J, McCabe KA, Wang W, Azevedo EP, Ledo JH, Kim Y. Molecular and cellular adaptations in hippocampal parvalbumin neurons mediate behavioral responses to chronic social stress. 2022;15.	Frontiers in Molecular Neuroscience		
2021	11. Luskin AT*, Bhatti DL* , Mulvey B, Pedersen CE, Girven KS, Oden-Brunson H, Kimbell K, Blackburn T, Sawyer A, Gereau IV RW, Dougherty JD, Bruchas MR. <u>Extended amygdala-parabrachial circuits alter threat assessment and regulate feeding</u> . 2021 Feb 26;7(9):eabd3666. * equal contribution	Science Advances		
2018	 Lu L*, Gutruf P*, Xia L*, Bhatti DL*, Wang X, Vazquez-Guardado A, Ning X, Shen X, Sang T, Ma R, Pakeltis G. Wireless optoelectronic photometers for monitoring neuronal dynamics in the deep brain. 2018 Feb 13;115(7):E1374-83. * equal contribution 	PNAS		

PUBLICATIONS (other)

2019	9. Hooversmith JM, Bhatti DL , Holmes PV. <u>Galanin administration into the prelimbic cortex impairs consolidation and expression of contextual fear conditioning</u> . 2019 Dec 16:375:112160.	Behavioural Brain Research
	8. Parker KE*, Pedersen CE*, Gomez AM*, Spangler SM, Walicki MC, Feng SY, Stewart SL, Otis JM, Al-Hasani R, McCall JG, Sakers K, Bhatti DL , Copits BA, Gereau RW, Jhou T, Kash TJ, Dougherty JD, Stuber GD, Bruchas MR. <u>A paranigral VTA nociceptin circuit that constrains motivation for reward</u> . 2019 Jul 25;178(3):653-71.	Cell
	7. Massaly N, Copits BA, Wilson-Poe AR, Hipólito L, Markovic T, Yoon HJ, Liu S, Walicki MC, Bhatti DL , Sirohi S, Klaas A, Walker BM, Neve R, Cahill CM, Shoghi KI, Gereau RW, McCall JG, Al-Hasani R, Bruchas MR, Moron JA. <u>Pain-induced negative affect is mediated via recruitment of the nucleus accumbens kappa opioid system</u> . 2019 May 8;102(3):564-73.	Neuron
2018	6 Mulyov B. Photti DI . Gyawali S. Lako AM Krigueionic S. Ford CD Bruehac MP. Haintz N.	Cell Reports

6. Mulvey B, **Bhatti DL**, Gyawali S, Lake AM, Kriaucionis S, Ford CP, Bruchas MR, Heintz N, Dougherty JD. Molecular and functional sex differences of noradrenergic neurons in the 2018 mouse locus coeruleus. 2018 May 22;23(8):2225-35.

2017 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. 2017 Jul 14;6:e18247.

eLife

optogenetics. 2016 Dec 13;113(50):E8169-77.

3. Seo DO*, Funderburk SC*, Bhatti DL, Motard LE, Newbold D, Girven KS, McCall JG, Krashes M, Sparta DR, Bruchas MR. A GABAergic projection from the centromedial nuclei of the amygdala to ventromedial prefrontal cortex modulates reward behavior. 2016 Oct 19;36(42):10831-42.

Journal of Neuroscience

PNAS

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 anxietylike states. 2016 Jul; 41(8):2011-23.

Neuropsychopharmacology

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. 2015 Dec 1;62:265-78.

Psychoneuroendocrinology

CONFERENCE PRESENTATIONS

13. D.L. Bhatti Mazo (2024). Feature-specific threat coding in lateral septum determines defensive action. Talk, Society for Neuroscience, Chicago.

12. D.L. Bhatti and T.E. Anthony (2021). Encoding of learned threat and avoidance by lateral septum Crfr2 neurons. Lab Results Seminar, Harvard Medical School/ Boston Children's Hospital, Kirby Neurobiology Center. 11. D.L. Bhatti and T.E. Anthony (2021). Experience-dependent encoding of threat stimuli by lateral septum

Crfr2 neurons. Virtual Poster, IBRO-Riken CBS Summer Program, Tokyo, Japan. (Virtual due to COVID19)

10. D.L. Bhatti, A. Luskin, ..., R.W. Gereau, J.D. Dougherty, M.R. Bruchas. (2019). Extended amygdalaparabrachial circuits alter threat assessment and control feeding. Poster, Society for Neuroscience Diversity Session, Chicago.

9. D.L. Bhatti A. Luškin, C.E. Pedersen, K. Kimbel, H. Oden-Brunson, R.W. Gereau, M.R. Bruchas. (2018). Extended amyg-dala-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.

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.
 D.L. Bhatti (2014). Cognitive Flexibility in the Fmr1-KO Mouse Model of Autism Spectrum Disorder. Talk,

NYU/CNS Summér Undergraduate Research Symposium.

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.

REFERENCES

Gordon Fishell, PhD, Professor of Neurobiology Department of Neurobiology, Harvard Medical School Gordon Fishell@hms.harvard.edu

Bernardo Sabatini, MD,PhD, Alice and Rodman W. Moorhead III Professor of Neurobiology Department of Neurobiology, Harvard Medical School Bernardo Sabatini@hms.harvard.edu

Bradford Lowell, PhD, Professor of Medicine BIDMC, Harvard Medical School blowell@bidmc.harvard.edu