

Joey A. Charbonneau

Draft date: April 22, 2024

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EDUCATION

University of California, Davis , Davis, CA College of Biological Sciences PhD in Neuroscience (<i>in progress</i>) Advisor: Dr. Eliza Bliss-Moreau, PhD GPA: 4.00	2019 – Present
New York University , New York, NY Gallatin School of Individualized Study Bachelor of Arts, Individualized Concentration – <i>Brain Science: Mind, Music, and History</i> GPA: 3.95	2015 – 2019

AWARDS AND HONORS

Trainee Professional Development Award, <i>Society for Neuroscience</i>	2023
Ruth L. Kirschstein Predoctoral Individual National Research Service Award F31 (National Institute on Aging), <i>UC Davis</i>	2022 – 2025
Basic Neuroscience T32 Training Grant (National Institute of Mental Health), <i>UC Davis</i>	2019 – 2020
University Honors Scholar, <i>NYU</i>	2019
Award in Interdisciplinary Academic Excellence, <i>NYU</i>	2019
Dean's Conference Fund Award, <i>NYU</i>	2019
Americas Scholar, <i>NYU</i>	2018 – 2019
Gallatin Undergraduate Research Fund (GURF) Award, <i>NYU</i>	2018
Global Pathways Scholarship, <i>NYU</i>	2017
Gallatin Scholarship, <i>NYU</i>	2015 – 2019
Great Lakes National STEM Scholarship, <i>NYU</i>	2015 – 2016

RESEARCH AND PROFESSIONAL EXPERIENCE

Graduate Student Researcher Advisor: Eliza Bliss-Moreau, PhD	2019 – Present
Graduate Teaching Assistant Courses: <i>Psychology of Music</i> , <i>Research Methods in Psychology</i> , <i>Advanced Animal Behavior</i> , <i>Advanced Cognitive Neuroscience</i>	2020 – 2022
Undergraduate Researcher Advisors: Dan H. Sanes, PhD; Todd M. Mowery, PhD	2018 – 2019

PUBLICATIONS

Charbonneau JA, Santistevan AC, Raven EP, Bennett JL, Russ BE, Bliss-Moreau E. (2024). Evolutionarily conserved neural responses to affective touch in monkeys transcend consciousness and change with age. *Proceedings of the National Academy of Sciences*, 121(18), e2322157121. doi:10.1073/pnas.2322157121

- Santistevan AC, Fiske O, Moadab G, **Charbonneau JA**, Isaacowitz DM, Bliss-Moreau E. (2024). See no evil: Attentional bias towards threat is diminished in aged monkeys. *Emotion*, 24(2), 303-315. doi: 10.1037/emo0001276
- Charbonneau JA**, Bennett JL, Chau K, Bliss-Moreau E. (2023). Reorganization in the macaque interoceptive-allostatic network following anterior cingulate cortex damage. *Cerebral Cortex*, 33(8), 4334-4349. doi: 10.1093/cercor/bhac346
- Charbonneau JA**, Maister L, Tsakiris M, Bliss-Moreau E. (2022). Rhesus monkeys have an interoceptive sense of their beating hearts. *Proceedings of the National Academy of Sciences*, 119(16), e2119868119. doi:10.1073/pnas.2119868119
- Charbonneau JA**, Amaral DG, Bliss-Moreau E. (2022). Social housing status impacts rhesus monkeys' affective responding in classic threat processing tasks. *Scientific Reports*, 12(1), 1-13. doi:10.1038/s41598-022-08077-4
- Charbonneau JA**, Bennett JL, Bliss-Moreau E. (2022). Amygdala or hippocampus damage only minimally impacts affective responding to threat. *Behavioral Neuroscience*, 136(1), 30-45. doi:10.1037/bne0000491
- Paraouty N, **Charbonneau JA**, Sanes DH. (2020). Social learning exploits the available auditory or visual cues. *Scientific Reports*, 10(1), 1-14. doi:10.1038/s41598-020-71005-x

SUBMITTED MANUSCRIPTS

- Charbonneau JA**, Carp SB, Bennett JL, Maw SM, Moadab GM, Baxter MG, Bliss-Moreau E. (under review). Bridging the translational gap: Comparative insights into insula structure and function.
- Charbonneau JA**, Raven EP, Katsumi Y, Santistevan AC, Taylor C, Bliss-Moreau E. (under review). Intrinsic functional and structural networks of the macaque insula exhibit close homology with human insula.
- Charbonneau JA**, Davis B, Raven EP, Patwardhan B, Grebosky C, Halteh L, Bennett JL, Bliss-Moreau E. (submitted). Evaluation of automated vs. manual segmentation of rhesus macaque brain MRIs.

POSTERS

- Charbonneau JA**, Raven EP, Katsumi Y, Bliss-Moreau E. (November 2023) Multimodal characterization of the macaque insula in vivo. *Society for Neuroscience Annual Meeting*.
- Baxter MG, **Charbonneau JA**, Carp SB, Bennett JL, Moadab GM, Ott SP, Rudebeck PH, Morrison JH, Bliss-Moreau E. (November 2023) Alzheimer's disease amyloid-beta oligomers effect on behavior, cognition, and affect in rhesus monkeys. *Society for Neuroscience Annual Meeting*.
- Raven EP, Lepage C, **Charbonneau JA**, Veraart J, Bennett JL, Evans AC, Zhang J, Bliss-Moreau E (October 2023) Integration of cytoarchitecture and brain-wide connectivity reveals topographic organization of macaque insula networks. *7th Big Brain Workshop: Challenges of big data integration*.
- Charbonneau JA**, Quigley KS, Barrett LF, Bliss-Moreau E. (November 2022) A meta-analytic reevaluation of the primate amygdala's role in affective processing. *Society for Neuroscience Annual Meeting*.
- Davis B, **Charbonneau JA**, Raven EP, Bennett JL, Bliss-Moreau E. (August 2022). Validation of automated MRI segmentation protocols of neuroanatomical regions of the rhesus macaque brain. *University of California Davis Veterinary Medicine Students Training in Advanced Research (STAR) Program Event*.
- Raven EP, Bennett JL, Veraart J, Lepage C, **Charbonneau JA**, Bliss-Moreau E, Zhang J. (May 2022) Multivariate mapping of cortical myeloarchitecture in the macaque cortex. *The International Society for Magnetic Resonance in Medicine Annual Meeting*.
- Charbonneau JA**, Maister L, Tsakiris M, Bliss-Moreau E. (March 2022) Rhesus monkeys have an interoceptive sense of their beating hearts. *Society for Affective Science Interoception Pre-Conference*.

Pararouty N, **Charbonneau JA**, Sanes DH. (October 2020) Observational learning exploits the available sensory and social cues. *Advances and Perspectives in Auditory Neuroscience, Society for Neuroscience Pre-Meeting*.

Paraouty N, **Charbonneau JA**, Sanes DH. (October 2019) Observational learning without visual cues. *Advances and Perspectives in Auditory Neuroscience, Society for Neuroscience Pre-Meeting*.

Paraouty N, **Charbonneau JA**, Mowery TM. (February 2019) Inhibitory strength is differentially altered along the corticostriatal circuit during task learning in normal-hearing and hearing-loss animals. *Association for Research in Otolaryngology Midwinter Meeting*.

Paraouty N, **Charbonneau JA**, Sanes DH. (February 2019) Contribution of observational learning to an auditory discrimination task. *Association for Research in Otolaryngology Midwinter Meeting*.

TALKS

Sensation and Perception Guest Speaker, *Florida Institute of Technology* 2023

Title: Interoception: An evolutionary perspective

Cognitive Neuroscience Guest Speaker, *University of Queensland* 2022

Title: Amygdala or hippocampus damage only minimally impacts affective responding to threat

Neuroscience Graduate Group Retreat, *University of California Davis* 2022

Title: Behavioral evidence of cardiac interoception in monkeys

Quantitative Psychology Brownbag Series, *University of California Davis* 2021

Title: Plasticity following lesions of the anterior cingulate cortex

AD HOC REVIEWER

Psychological Bulletin, Philosophical Psychology, Animal Cognition