

Education	Rockefeller University Ph.D. in Biological Sciences	2014
	The University of Chicago A.B. in Biological Sciences with Specialization in Cellular and Molecular Biology, Minor in French	2004
Research Positions / Employment	Associate Research Scientist Columbia University Advisor: Dr. Richard Axel	2020-
	Postdoctoral Research Fellow Columbia University Advisor: Dr. Richard Axel Parental leaves of absence in 2014 and 2018	2014-2019
	Graduate Fellow Rockefeller University Advisor: Dr. Leslie Voss hall	2008-2014
	Graduate Rotation Student Rockefeller University Advisors: Dr. Robert Roeder, Dr. Robert Darnell, Dr. Charles Gilbert	2007-2008
	Associate Consultant ZS Associates management consulting firm	2006-2007
	Business Associate ZS Associates management consulting firm	2004-2005
	Honors thesis undergraduate researcher University of Chicago Advisor: Dr. Bruce Lahn	2000-2004
	Summer Research Intern University of South Carolina Advisor: Dr. Vicki Vance	1999
Honors, Fellowships, Grants, and Awards	Best Talk Award, Society for Neuroeconomics	2025
	NIMH Conte Center for Research in OCD (P50-MH106435) Young Investigator OCD Grant Activity, \$50,000 independent laboratory transition grant	2023-
	Intersections Science Fellow	2023
	Simons Foundation Society of Fellows Junior Fellowship	2015-2018

Women in Science Fellowship, Rockefeller University	2007-2013
Maroon Key Society, advisory council to the Dean of the College, highest honor for service to the College	2004
University of Chicago Academic Honors, equivalent to <i>summa cum laude</i>	2004
University of Chicago College Honors Scholar, full-tuition academic merit scholarship	2000-2004
<i>Grants scored but not funded</i>	
BRAIN Initiative Advanced Postdoctoral Career Transition Award to Promote Diversity (K99/R00), March 2020 (resubmission), impact score 48	

Publications

Preprint, currently under peer review

Bussell, J.J., Badman, R.P., Márton, C.D., Bromberg-Martin, E.S., Abbott, L.F., Rajan, K., & Axel, R. (2023) Representations of the intrinsic value of information in mouse orbitofrontal cortex. *bioRxiv*.
<https://doi.org/10.1101/2023.10.13.562291>

Peer-reviewed Articles

Clowney, E. J., Iguchi, S., **Bussell, J. J.**, Scheer, E. & Ruta, V. (2015) Multimodal Chemosensory Circuits Controlling Male Courtship in *Drosophila*. *Neuron* 87, 1036–1049.
<https://doi.org/10.1016/j.neuron.2015.07.025>

Bussell, J.J., Yapici, N., Zhang, X., Dickson, B.J., and Vosshall, L.B. (2014) *Abdominal-B* neurons control *Drosophila* virgin female receptivity. *Current Biology* 24, 1584-1595.
<https://doi.org/10.1016/j.cub.2014.06.011>

Bussell, J.J., Pearson, N.M., Kanda, R., Filatov, D.A. and Lahn, B.T. (2006). Human polymorphism and human-chimpanzee divergence in pseudoautosomal region correlate with local recombination rate. *Gene* 368, 94-100.
<https://doi.org/10.1016/j.gene.2005.10.020>

Peer-Reviewed Conference Proceedings

Bussell, J.J., Bromberg-Martin, E.S., Badman, R.S., Rajan, K., Abbott, L.F & Axel, R. (2023) Representations of information value in mouse orbitofrontal cortex during information seeking. *Cosyne Computational and Systems Neuroscience 2023*.
<https://doi.org/10.57736/3cea-a8b0>

Invited Reviews

Bussell, J.J. and Vosshall, L.B. (2012) Behavioral neuroscience: learning to suckle with signature odor. *Curr Biol* 22, R907-909.
<https://doi.org/10.1016/j.cub.2012.09.034>

Bussell, J.J. and Vosshall L.B. (2010). Chemical ecology: Reprogramming a termite monarchy. *Nat Chem Biol* 6, 637-638.
<https://doi.org/10.1038/nchembio.428>

Selected Presentations and Seminars

Society for Neuroeconomics. <i>Selected talk</i> .	2025
Curiosity, Information Seeking, & Exploration. <i>Selected talk</i> .	
Society for Philosophy and Neuroscience. <i>Invited talk</i> .	
Mechanisms of Foraging. <i>Invited talk</i> .	2024
Society for Neuroscience Nanosymposium. <i>Selected talk</i> .	
Orbitofrontal Cortex Quadriennial Meeting. <i>Selected poster</i> .	

Cosyne Computational and Systems Neuroscience. <i>Selected poster.</i>	
Society for Neuroeconomics. <i>Invited talk.</i>	2023
Curiosity, Creativity, and Complexity. <i>Selected poster.</i>	
Harvard INCEPT external postdoc series. <i>Invited talk.</i>	
UCLA SYNCS external postdoc series. <i>Invited talk.</i>	
Cosyne Computational and Systems Neuroscience. <i>Selected poster.</i>	
ZIPS internal postdoc series. <i>Selected talk.</i>	2022
Gordon Research Conference Neurobiology of Cognition. <i>Selected talk.</i>	
Simons Foundation Global Brain Postdoc Meeting. <i>Invited talk</i>	
Howard Hughes Medical Institute Science Meeting. <i>Poster.</i>	2021
Society for Neuroscience Nanosymposium. <i>Selected talk.</i>	2020
Princeton University PDP Neuroscience Seminar. <i>Invited talk.</i>	2019
Gordon Research Conference Neurobiology of Cognition. <i>Poster.</i>	2018
Cold Spring Harbor <i>Drosophila</i> Neurobiology Meeting. <i>Invited talk.</i>	2011
Howard Hughes Medical Institute Science Meeting. <i>Poster.</i>	

Teaching and Mentorship

Research Assistant post-baccalaureates

Rhea Singh	2024-
Maya Sharma Campbell, next position academic tutor	2022-2023
Ashwin Viswanathan, next position Columbia University MD-PhD	2020-2022
Deniz Bingul, next position University of California Berkeley PhD	2018-2020
Theodore Hannah, next position Icahn School of Medicine Mt. Sinai MD	2016-2018
Adamu Awak, next position Morehouse School of Medicine MD	2015-2016
Isabel Guitierrez, next position lab manager at Albert Einstein College of Medicine	2010-2012

PhD Student

Jennifer Scribner, Columbia University	2018-2019
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Undergraduate Thesis and Summer Research Students

Alexander Knue, Columbia University	2023-
Leon Zhou, Columbia University	2022
Sara Lanclos, Barnard College	2016-2019
Stephen Zhang, Grinnell College	2012

Summer High School Student Mentor

2009,2010,
2015,2019

Rockefeller University Summer Neuroscience Program lecturer

2009

Service and Outreach

Guest speaker, Columbia+ Neuroscience of Curiosity Course	2025
Zuckerman Institute Trainee Advisory Committee founding member	2019-
Chair STEAM56 school science outreach day for 400 people	2018-2023
PS56 Brooklyn public School Leadership Team / PTA Science Chair	2018-2022
Reviewer for <i>Nature</i> , <i>Cell</i> , <i>Neuron</i> , <i>Current Biology</i>	2008-
Moderator, Niarchos Brain Insight Lecture: Embracing Uncertainty	2023
Columbia Neuroscience Seminar Series selection committee	2019-2021
Speaker, <i>Studying Curiosity in Animals</i> CU Center for Science & Society	2019
Alumni Association President, SC Governor's School Science/Math	2012-2013
Student Representative, Faculty and Students Club Board of Directors	2009-2014
Representative, Rockefeller University Student Representative Council	2011-2012
Founding Board Member, Chicago Biological Investigator	2004
News Editor, Science Editor, <i>The Chicago Maroon</i>	2000-2003

**Additional
Training
and
Professional
Affiliations**

Crawford Bias Reduction Training monthly workshop series	2021
Mentoring Up mentorship training workshop series	2021
Academics for Black Lives Zuckerman Institute Accountability Group	2020
Society for Neuroeconomics	2020-
Society for Neuroscience	2016-
New York Academy of Sciences	2015-