

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 Vosshall	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	<i>Preprint, currently under peer review</i>	
	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. <i>bioRxiv</i> . https://doi.org/10.1101/2023.10.13.562291	
	<i>Peer-reviewed Articles</i>	
	Clowney, E. J., Iguchi, S., Bussell, J. J. , Scheer, E. & Ruta, V. (2015) Multimodal Chemosensory Circuits Controlling Male Courtship in <i>Drosophila</i> . <i>Neuron</i> 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) <i>Abdominal-B</i> neurons control <i>Drosophila</i> virgin female receptivity. <i>Current Biology</i> 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. <i>Gene</i> 368, 94-100. https://doi.org/10.1016/j.gene.2005.10.020	
	<i>Peer-Reviewed Conference Proceedings</i>	
	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. <i>Cosyne Computational and Systems Neuroscience 2023</i> . https://doi.org/10.57736/3cea-a8b0	
	<i>Invited Reviews</i>	
	Bussell, J.J. and Vosshall, L.B. (2012) Behavioral neuroscience: learning to suckle with signature odor. <i>Curr Biol</i> 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. <i>Nat Chem Biol</i> 6, 637-638. https://doi.org/10.1038/nchembio.428	
Selected Presentations and Seminars	Society for Neuroeconomics. <i>Selected talk</i> . Curiosity, Information Seeking, & Exploration. <i>Selected talk</i> . Society for Philosophy and Neuroscience. <i>Invited talk</i> . Mechanisms of Foraging. <i>Invited talk</i> . Society for Neuroscience Nanosymposium. <i>Selected talk</i> . Orbitofrontal Cortex Quadriennial Meeting. <i>Selected poster</i> .	2025 2024

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

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