

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	
NIMH Conte Center for Research in OCD (P50-MH106435) Young Investigator OCD Grant Activity, independent laboratory transition grant \$50,000 over 2 years	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 at Nature Neuroscience

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

Mechanisms of foraging, Lyon, France. <i>Invited Speaker</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> .	2023
Society for Neuroeconomics. <i>Invited Talk</i> .	
Curiosity, Creativity, and Complexity. <i>Selected poster</i> .	
Harvard INCEPT external postdoc series. <i>Invited Talk</i> .	

UCLA SYNCS external postdoc series. *Invited Talk.*
 Cosyne Computational and Systems Neuroscience. *Selected poster.* 2022
 ZIPS internal postdoc series. *Selected Talk.*
 Gordon Research Conference Neurobiology of Cognition. *Invited Talk.*
 Simons Foundation Global Brain Postdoc Meeting. *Invited talk* 2021
 Howard Hughes Medical Institute Science Meeting. *Poster.* 2020
 Society for Neuroscience Nanosymposium. *Selected talk.* 2019
 Princeton University PDP Neuroscience Seminar. *Invited talk.*
 Gordon Research Conference Neurobiology of Cognition. *Poster.* 2018
 Cold Spring Harbor *Drosophila* Neurobiology Meeting. *Invited talk.* 2011
 Howard Hughes Medical Institute Science Meeting. *Poster.*

**Mentorship
and Teaching**

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**

Zuckerman Institute Trainee Advisory Committee founding member 2019-
 PS56 Brooklyn public School Leadership Team / PTA Science Chair 2018-
 Chair STEAM56 school science outreach day for 400 people 2018-
 Reviewer for *Nature, Cell, Neuron, Current Biology* 2008-
 Moderator, Niarchos Brain Insight Lecture: Embracing Uncertainty 2023
 Columbia Neuroscience Seminar Series selection committee 2019-2021
 Speaker, *Studying Curiosity in Animals* 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, *The Chicago Maroon* 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-