Jennifer J. Bussell, PhD

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Education	2014	Rockefeller University Ph.D. in Biological Sciences
	2004	The University of Chicago A.B. in Biological Sciences with Specialization in Cellular and Molecular Biology, Minor in French
	2000	South Carolina Governor's School for Science and Mathematics Diploma with Honors
Research Positions / Employment	2020-2023	Associate Research Scientist Columbia University Advisor: Dr. Richard Axel
	2014-2019	Postdoctoral Research Fellow Columbia University Advisor: Dr. Richard Axel
	2008-2014	Graduate Fellow Rockefeller University Advisor: Dr. Leslie Vosshall
	2007-2008	Graduate Rotation Student Rockefeller University Advisors: Dr. Robert Roeder, Dr. Robert Darnell, Dr. Charles Gilbert
	2004-2007	Associate Consultant, Business Associate ZS Associates management consulting firm
	2000-2004	Honors thesis undergraduate researcher University of Chicago Advisor: Dr. Bruce Lahn
	1999	Summer Research Intern University of South Carolina Advisor: Dr. Vicki Vance
Honors, Fellowships, and Awards	2023	NIMH Conte Center for Research in OCD Young Investigator OCD Grant Activity (YOGA), part of P50-MH106435, \$50,000 over 2 years Intersections Science Fellow Simons Foundation Society of Fellows Junior Fellowship Women in Science Fellowship, Rockefeller University Maroon Key Society, advisory council to the Dean of the College, highest non-academic honor University of Chicago Academic Honors, equivalent to summa cum laude University of Chicago College Honors Scholarship, full-tuition academic scholarship
	2023 2015-2018 2007-2013 2004	
	2004 2000-2004	

Publications

Preprint

Bussell, J.J., Badman, R.P., Márton, C.D., Bromberg-Martin, E.S., Abbott, L.F., Rajan, K., & Axel, R. (2023) Representations of information value in mouse orbitofrontal cortex during information seeking. *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

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

Bussell, J.J., Badman, R.P., Márton, C.D., Bromberg-Martin, E.S., Abbott, L.F., Rajan, K., & Axel, R. Representations of information value in mouse orbitofrontal cortex during information seeking. Society for Neuroeconomics. *Invited Talk* October 2023.

Bussell, J.J., Bromberg-Martin, Badman, R.P., Rajan, K., E.S., Abbott, L.F & Axel, R. Representations of information value in mouse orbitofrontal cortex during information seeking. Curiosity, Creativity, and Complexity. *Selected poster* May 2023.

Bussell, J.J., Bromberg-Martin, E.S., Abbott, L.F & Axel, R. Representations of information value in mouse orbitofrontal cortex

during information seeking. Harvard INCEPT external postdoc series. *Invited Talk* April 2023.

Bussell, J.J., Bromberg-Martin, E.S., Abbott, L.F & Axel, R. Representations of information value in mouse orbitofrontal cortex during information seeking. UCLA SYNCS external postdoc series. *Invited Talk* April 2023.

Bussell, J.J., Bromberg-Martin, Badman, R.S., Rajan, K., E.S., Abbott, L.F & Axel, R. Representations of information value in mouse orbitofrontal cortex during information seeking. Cosyne Computational and Systems Neuroscience. *Selected poster* March 2023.

Bussell, J.J., Bromberg-Martin, E.S., Abbott, L.F & Axel, R. Representations of information value in mouse orbitofrontal cortex during information seeking. ZIPS internal postdoc series. *Selected Talk* 2022.

Bussell, J.J., Bromberg-Martin, E.S., Abbott, L.F & Axel, R. Representations of information value in mouse orbitofrontal cortex during information seeking. Gordon Research Conference on the Neurobiology of Cognition. *Invited Talk* 2022.

Bussell, J.J., Bromberg-Martin E.S., & Axel, R The desire to know: non-instrumental information seeking in mice. Howard Hughes Medical Institute Investigators Meeting. *Poster* 2020.

Bussell, J.J., Bromberg-Martin E.S., & Axel, R. Information seeking in mice: a behavioral paradigm and imaging studies of neural circuits for the desire to know. Society for Neuroscience Nanosymposium. *Invited talk* 2019.

Bussell, J.J., Bromberg-Martin E.S., & Axel, R Orbitofrontal representations of information in mice desiring to know. Princeton University PDP Neuroscience Seminar. *Invited talk* 2019.

Bussell, J.J., Yapici, N., Dickson, B.J. and Vosshall, L.B. "Neurons controlling virgin female receptivity to mating." Cold Spring Harbor *Drosophila* Neurobiology Meeting. *Invited talk* 2011.

Bussell, J.J., Yapici, N., Dickson, B.J. and Vosshall, L.B. "Neurons controlling virgin female receptivity to mating." Howard Hughes Medical Institute Science Meeting. *Poster* 2011.

Mentorship		Research Assistant post-baccalaureates
and Teaching	2022-	Maya Sharma Campbell
	2020-2022	Ashwin Viswanathan, next position Columbia University MD-PhD
	2018-2020	Deniz Bingul, next position University of California Berkeley PhD
	2016-2018	Theodore Hannah, next position Icahn School of Medicine Mt. Sinai MD
	2015-2016	Adamu Awak, next position Morehouse School of Medicine MD
	2010-2012	Isabel Guitierrez, next position lab manager at Albert Einstein College of
		Medicine

	2018-2019	PhD Student Jennifer Scribner, Columbia University
	2022 2016-2019 2012	Undergraduate Thesis and Summer Research Students Leon Zhou, Columbia University Sara Lanclos, Barnard College Stephen Zhang, next position Harvard University Ph.D.
	2009,2010, 2015,2019	Summer High School Student Mentor
	2009	Rockefeller University Summer Neuroscience Program lecturer
Service and Outreach	2019- 2018- 2018- 2008- 2023 2019-2021 2019 2012-2013 2009-2014 2011-2012 2004	Zuckerman Institute Trainee Advisory Committee founding member PS56 Brooklyn public School Leadership Team / PTA Science Chair Chair STEAM56 school science outreach day for 400 people Reviewer for Nature, Cell, Neuron, Current Biology Moderator, Niarchos Brain Insight Lecture: Embracing Uncertainty Columbia Neuroscience Seminar Series selection committee Speaker, Studying Curiosity in Animals 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 undergraduate scientific research journal News Editor, Science Editor, The Chicago Maroon
Additional Training and Affiliations	2021 2021 2020 2020- 2016- 2015-	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