

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	2014-	Associate Research Scientist, 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	2015-2018	Simons Foundation Society of Fellows Junior Fellowship
	2007-2013	Women in Science Fellowship, Rockefeller University
	2004	Maroon Key Society, advisory council to the Dean of the College, highest non-academic honor
	2004	University of Chicago Academic Honors, equivalent to <i>summa cum laude</i>
	2000-2004	University of Chicago College Honors Scholarship, full-tuition academic scholarship

Publications

Reviewed Conference Proceedings

Bussell, J.J., Bromberg-Martin, E.S., Badman, R.S., Ranjan, 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>

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.

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.

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.

Invited Reviews

Bussell, J.J. and Vosshall, L.B. (2012) Behavioral neuroscience: learning to suckle with signature odor. *Curr Biol* 22, R907-909.

Bussell, J.J. and Vosshall L.B. (2010). Chemical ecology: Reprogramming a termite monarchy. *Nat Chem Biol* 6, 637-638.

Selected Presentations and Seminars

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, 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
and Teaching**

2022-

Research Assistant post-baccalaureates

2020-2022

Maya Campbell

2018-2020

Ashwin Viswanathan, next position Columbia University MD-PhD

2016-2018

Deniz Bingul, next position University of California Berkeley PhD

2015-2016

Theodore Hannah, next position Icahn School of Medicine Mt. Sinai MD

Adamu Awak, next position Morehouse School of Medicine MD

2018-2019

PhD Student

Jennifer Scribner, Columbia University

2022

Undergraduate Thesis and Summer Research Students

Leon Zhou, Columbia University

2016-2019

Sara Lanclos, Barnard College

2012

Stephen Zhang, next position Harvard University Ph.D.

2009,2010,

Summer High School Student Mentor

2015,2019

2009

Rockefeller University Summer Neuroscience Program lecturer

Service and Outreach	2008-	Reviewer for <i>Nature, Cell, Neuron, Current Biology</i>
	2019-	Zuckerman Institute Trainee Advisory Committee founding member
	2023	Moderator, Niarchos Brain Insight Lecture: Embracing Uncertainty
	2018-	PS56 Brooklyn public School Leadership Team / PTA Science Chair
	2018-	Chair STEAM56 school science outreach day for 400 people
	2019-2021	Columbia Neuroscience Seminar Series selection committee
	2012-2013	Alumni Association President, SC Governor's School Science/Math
	2009-2014	Student Representative, Faculty and Students Club Board of Directors
	2011-2012	Representative, Rockefeller University Student Representative Council
	2004	Founding Board Member, Chicago Biological Investigator undergraduate scientific research journal
2000-2003	News Editor, Science Editor, <i>The Chicago Maroon</i>	
Additional Training and Affiliations	2021	Crawford Bias Reduction Training Monthly Workshop Series
	2021	Academics for Black Lives Zuckerman Institute Accountability Group
	2016-	Society for Neuroscience
	2015-	New York Academy of Sciences