

<b>Education</b>	2014	<b>Rockefeller University</b> Ph.D. in Biological Sciences
	2004	<b>The University of Chicago</b> A.B. in Biological Sciences with Specialization in Cellular and Molecular Biology, Minor in French
	2000	<b>South Carolina Governor's School for Science and Mathematics</b> Diploma with Honors
<b>Research Positions / Employment</b>	2014-	<b>Associate Research Scientist, Postdoctoral Research Fellow</b> Columbia University Advisor: Dr. Richard Axel
	2008-2014	<b>Graduate Fellow</b> Rockefeller University Advisor: Dr. Leslie Vosshall
	2007-2008	<b>Graduate Rotation Student</b> Rockefeller University Advisors: Dr. Robert Roeder, Dr. Robert Darnell, Dr. Charles Gilbert
	2004-2007	<b>Associate Consultant, Business Associate</b> ZS Associates management consulting firm
	2000-2004	<b>Honors thesis undergraduate researcher</b> University of Chicago Advisor: Dr. Bruce Lahn
	1999	<b>Summer Research Intern</b> University of South Carolina Advisor: Dr. Vicki Vance
<b>Honors, Fellowships, and Awards</b>	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

### *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* to be given 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* to be given 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

	<i>Research Assistant post-baccalaureates</i>
2022-	Maya 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
	<i>PhD Student</i>
2018-2019	Jennifer Scribner, Columbia University
	<i>Undergraduate Thesis and Summer Research Students</i>
2022	Leon Zhou, Columbia University
2016-2019	Sara Lanclos, Barnard College
2012	Stephen Zhang, next position Harvard University Ph.D.
2009,2010, 2015,2019	<i>Summer High School Student Mentor</i>
2009	<i>Rockefeller University Summer Neuroscience Program lecturer</i>

<b>Service and Outreach</b>	2008-	Reviewer for <i>Nature, Cell, Neuron, Current Biology</i>
	2019-	Zuckerman Institute Trainee Advisory Committee founding member
	2019-2021	Columbia Neuroscience Seminar Series selection committee
	2018-	PS56 Brooklyn public School Leadership Team / PTA Science Chair
	2018-	Chair STEAM56 school science outreach day for 400 people
	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
<b>Additional Training and Affiliations</b>	2004	Founding Board Member, Chicago Biological Investigator undergraduate scientific research journal
	2000-2003	News Editor, Science Editor, <i>The Chicago Maroon</i>
	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