

# JAMES R. HOWE VI

University of California, San Diego  
Neurosciences Graduate Program  
5004 Ensign Street  
La Jolla, CA 92037

**Academic** j3howe@health.ucsd.edu  
**Personal** james@jamesrhowevi.me  
**Website** jamesrhowevi.me  
**Twitter** @jamesrhowe6  
**Telephone** (319)-512-9555

## Current Position

Mar. 2018 – present University of California, San Diego Graduate Student (Ph.D.)  
Neurosciences Graduate Program Supervisors: Cory M. Root, Ph.D.  
Kay M. Tye, Ph.D.  
La Jolla, California GPA: 3.83 / 4.0

## Education

Date Awarded	Institution	Degree
Jun. 2017	Dartmouth College Hanover, New Hampshire	Bachelor of Arts (A.B.), <i>cum laude</i> Major: Neuroscience (High Honors) Minor: Biology GPA: 3.75 (cumulative) 3.92 (major) / 4.0

## Previous Research Positions

Period	Institution	Position
Jan. – Mar. 2018	Salk Institute La Jolla, California	Rotation Student Supervisor: Fred H. Gage, Ph.D.
Sept. – Dec. 2017	University of California, San Diego La Jolla, California	Rotation Student Supervisor: Roberto Malinow, M.D./Ph.D.
2014 – 2017	Geisel School of Medicine Lebanon, New Hampshire	Undergraduate Research Technician Supervisor: Bryan W. Luikart, Ph.D.
Mar. – Sept. 2016	University of California, Los Angeles Los Angeles, California	Visiting Undergraduate Researcher Supervisor: Alcino J. Silva, Ph.D.
2010 – 2013	University of Iowa Iowa City, Iowa	Junior Research Technician Supervisor: James R. Howe, M.D.

## Grants and Fellowships

Award	Institution	Period
National Defense Science and Engineering Graduate Fellowship (\$121,000)	Department of Defense	2019 – 2022
Graduate Research Fellowship ( <i>declined</i> )	National Science Foundation	2019
Kaminsky Family Fund Grant (\$1800)	Dartmouth College	2014, 2017

## Honors and Awards

Award	Institution	Period
Neuroscience Center at Dartmouth Award for Best Neuroscience Thesis	Dept. of Psychological and Brain Sciences Dartmouth College	2017
Lt. William Brewster Nickerson 1964 Prize for Outstanding Student Researcher in Neuroscience	Dept. of Psychological and Brain Sciences Dartmouth College	2017
Gazzaniga Family Science Award Nominee for Best Scientific Thesis	Dartmouth College	2017
Kresge Library Award for Excellence in the Sciences	Dept. of Libraries Dartmouth College	2017
James O. Freedman Presidential Scholar	Dept. of Undergraduate Research Dartmouth College	2015 – 2017
Honors List	Dartmouth College	
Second Honors Group		2016 – 2017
Third Honors Group		2013 – 2015
National Finalist	Siemens Competition	2012
National Fifth Place (Solo Presenter)		

## Refereed Journal Articles

4. **Howe VI, J.R.**, Bear, M.F., Golshani, P., Klann, E., Mucke, L., Sahin, M., Lipton, S.A., Silva, A.J. (2018). The mouse as a model for neuropsychiatric drug development. *Current Biology*, 28(17): R909-914. doi: 10.1016/j.cub.2018.07.046.
3. **Howe VI, J.R.**, Li, E.S., Streeter, S.E., Rahme, G.J., Chipumuro, E., Russo, G.B., Litsky, J.F., Hills, L.B., Rodgers, K.R., Skelton, P.D., Luikart, B.W. (2017). MiR-338-3p regulates neuronal maturation and suppresses glioblastoma proliferation. *PLoS ONE*, 12(5): e0177661. doi: 10.1371/journal.pone.0177661.
2. **Howe VI, J.R.**, Dahdaleh, F.S., Carr, J.C., Wang, D., Sherman, S.K., Howe, J.R. (2013). BMPR1A mutations in juvenile polyposis affect cellular localization. *Journal of Surgical Research*, 184(2): 739-745. doi: 10.1016/j.jss.2013.01.015.
1. Dahdaleh, F.S., Carr, J.C., Calva, D., **Howe VI, J.R.**, Howe, J.R. (2011). SP1 regulates the transcription of BMPR1A. *Journal of Surgical Research*, 171(1): e15-20. doi: 10.1016/j.jss.2011.06.056.

## Selected Poster Presentations (First author at international conferences only)

1. **Howe VI, J.R.**, Preissl, S., Hou, X, Root, C.M. (2019). A Multi-omic Molecular Atlas of the Cortical Amygdala. *Society for Neuroscience*. 49<sup>th</sup> Annual Meeting. Chicago, IL.

### Invited Talks

Title	Location	Date
The mouse as a model for neuropsychiatric drug development.	ICLM Journal Club UCLA	Mar 1, 2019

### Teaching Experience

Course/Institution	Capacity	Period
<i>NEU 221</i> : Advanced Topics in Neuroscience University of California, San Diego	Teaching Assistant Prof. Timothy Gentner	2018 – 2019 Academic Year
<i>BIOL 13</i> : Gene Expression and Inheritance Dartmouth College	Teaching Assistant Prof. Thomas Jack	Summer Term 2015 (Jun. – Aug. 2015)

### Popular Writing\*

Activity	Organization	Period
Contributor	Massive Science NeuWrite San Diego	2018 – present 2017 – present
Annual Meeting Blogger	Society for Neuroscience	2018
Writing & Editing Team	Interstellate	2017
Staff Writer Assistant Editor	Dartmouth Undergraduate Journal of Science	2013 – 2017 2014 – 2015

\*full portfolio can be found at personal website: [www.jamesrhowevi.me/portfolio](http://www.jamesrhowevi.me/portfolio)

### Community Outreach and Departmental Service

Activity	Organization	Period
Student Lecturer Webmaster	Neuroscience Outreach Program University of California, San Diego	2017 – present
Graduate Committee Member Outreach New Media Recruitment	Dept. of Neurosciences University of California, San Diego	2018 – present 2017 – present 2017 – 2018
Panel Leader/Moderator	ComSciCon San Diego	2018 – present
Local Organizer	ComSciCon	2018
President	Dartmouth Undergraduate Journal of Science	2015 – 2017

### Professional Organization Memberships

Organization	Affiliation	Period
National Association of Science Writers	Regular Member	2018 – present
American Association for the Advancement of Science	Student Member	2018 – present

International Society for Computational Biology	Student Member	2018 – present
Molecular & Cellular Cognition Society	Student Member	2017 – present
Society for Neuroscience	Student Member	2017 – present
Sigma Xi	Full Member	2017 – present

## **References**

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Available upon request.