

## DENNIS MATHEW, Ph.D.

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### PROFESSIONAL EXPERIENCE

- |   |                |
|---|----------------|
| <b>Assistant Professor</b> , Biology,<br>University of Nevada, Reno, NV             | 2014 - present |
| <b>Associate Research Scientist</b> , MCD-Biology<br>Yale University, New Haven, CT | 2012 – 2014    |

### EDUCATION & TRAINING

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|--|-------------|
| <b>Postdoctoral Associate</b> , Neurobiology,<br>Yale University, New Haven, CT<br>Advisor: John Carlson, Ph.D.  | 2006 – 2012 |
| <b>Ph.D. in Molecular &amp; Cellular Biology</b><br>University of Massachusetts, Amherst<br>Advisor: Vivian Budnik, Ph.D.<br>Dissertation: Postsynaptic mechanisms during synaptic plasticity at the <i>Drosophila</i> neuromuscular junction. | 1999 – 2006 |
| <b>M.Sc. in Biotechnology</b><br>Maharaj Sayajirao University, Baroda, India<br>Advisor: Tamisraha Bagchi, Ph.D.<br>Thesis: Development of a transformation system in <i>Lactobacillus acidophilus</i>   | 1996 – 1998 |
| <b>B.Sc. in Microbiology &amp; Biochemistry</b><br>S.I.E.S. College,<br>University of Mumbai, Mumbai, India  | 1993 – 1996 |

### RESEARCH SUPPORT & AWARDS

#### Current Research Support

- Supporting PI, NSF-REU award, Mar 2019 – Jun 2022 (“Biomimetic and Soft Robotics”, PI: Dr. Wangliang Shan)
- Co-PI, USDA award March 2018 – Feb 2021 (“Exploring how neonicotinoid pesticides affect the sensory mechanisms underlying wild bee nutrition”, PI: Dr. Annie Leonard).
- Project Leader, NIH COBRE (P20 GM103650), September 2017 – July 2020
- Co-PI, DARPA award July 2017 – June 2019 (“Development of strategies to target key mosquito host-seeking factors governing human host preference”, PI: Dr. Andrew Nuss).
- Faculty Startup Grant, University of Nevada, Reno, July 2014 – June 2021

**Past Research Support**

- NSE Award from the Office of Vice President of Research & Innovation, UNR, November 2016 – December 2017 (“Biophilosophy of Olfaction”, Collaborator: Dr. Benjamin Young, Dept. of Philosophy, UNR)
- NSE Award from the Office of Vice President of Research & Innovation, UNR, November 2016 – December 2017 (“Building an Odor coding model that can reliably predict insect behavior”, Collaborator: Dr. Deena Schmidt, Dept. of Math & Statistics, UNR)
- NIH COBRE support (P20 GM103554), October 2016 – January 2017
- NIH-INBRE, Undergraduate Research Supply Support Award, Feb 2016 – Dec 2016

**Research Support for my undergraduate Mentees**

- TriBeta Research Fellowship: Cammie Lee, (2017) undergraduate student, University of Nevada, Reno. \$500.
- Nevada Undergraduate Research Award: Cammie Lee, (2017) undergraduate student, University of Nevada, Reno. \$1360
- Honors Undergraduate Research Award (HURA): Alexandra Novenschi, (2017) undergraduate student, University of Nevada, Reno. \$1,500
- Honors Undergraduate Research Award (HURA): Donovan Kohler, (2017) undergraduate student, University of Nevada, Reno. \$1,500
- Honors Undergraduate Research Award (HURA): Larissa Gloutak, (2017) undergraduate student, University of Nevada, Reno. \$500
- TriBeta Research Fellowship: Kristen Hess, (2016) undergraduate student, University of Nevada, Reno. \$500.
- Mead Award: Alexandra Novenschi, (2015). \$1,000
- Honors Undergraduate Research Award (HURA): Riley Kellermeyer, (2015) undergraduate student, University of Nevada, Reno. \$1,500
- Honors Undergraduate Research Award (HURA): Lea Cohen, (2015) undergraduate student, University of Nevada, Reno. \$500

**Awards**

- |   |      |
|---|------|
| • Finalist, LeMay Excellence in Teaching Award, UNR                         | 2017 |
| • Westfall Scholar Mentor Award, UNR  | 2016 |
| • Finalist, Best PhD Thesis Award, UMass Amherst                            | 2005 |
| • Award by the Indian Chemical Society for showing proficiency in Chemistry | 1995 |
| • Dr. Yvonne M. Freitas Endowment for excellence in Microbiology            | 1995 |
| • Late (Shri) A.V. Badhe Memorial Award for excellence in Microbiology      | 1995 |
| • Smt. Pushpa Narayan Menon Endowment for excellence in Microbiology        | 1995 |
| • Shri Sohrab Mistry Award for showing excellence in Chemistry              | 1995 |
| • Shri Sohrab Mistry Award for showing excellence in Chemistry              | 1994 |
| • Shri Sundar Bhaskar Memorial Scholarship for excellence in Chemistry      | 1994 |
| • Special award by the Greater Bombay Science Teachers Association          | 1990 |

## PUBLICATIONS

**Articles published** (reverse Chronological) (^ indicate undergrad mentees, \* indicate graduate students from my lab)

1. Slankster E, ^Lee C, ^Hess K, \*Odell SR, **Mathew D.** (2019) Effect of gut microbes on olfactory behavior of *Drosophila melanogaster* larva. *BIOS* (in press. Accepted for publication March 2019).
2. Slankster E, \*Odell SR, **Mathew D** (2019) Strength in diversity: functional diversity among olfactory neurons of the same type. *Journal of bioenergetics and biomembranes* 51(1):65-75.
3. \*Clark DA, \*Odell SR, Armstrong JM, ^Turcotte M, ^Kohler D, ^Mathis A, Schmidt DR, **Mathew D.** Behavior Responses to Chemical and Optogenetic Stimuli in *Drosophila* Larvae. *Frontiers in behavioral neuroscience* 12:324.
4. \*Clark, DA, ^KohlerD, ^Mathis A, Slankster E, ^Kafle S, \*Odell SR, **Mathew D.** Tracking *Drosophila* Larval Behavior in Response to Optogenetic Stimulation of Olfactory Neurons. *J. Vis. Exp.* (133),
5. Newquist G, ^Novenschi A, ^Kohler D, **Mathew D** “Differential contributions of Olfactory Receptor Neurons in a *Drosophila* olfactory circuit”, (2016) *eNeuro* 2016; 3(4).
6. **Mathew D**, Martelli C, ^Kelley-Swift E, ^Brusalis C, Gershow M, Samuel, A.D.T, Emonet T, Carlson JR. “Functional diversity among sensory receptors in a *Drosophila* olfactory circuit”, (2013) *Proc Natl Acad Sci U S A.* June 4; 110(23):E2134-43
7. Gershow M, Berck M, **Mathew D**, Luo L, Kane EA, Carlson JR, Samuel ADT. “Controlling airborne chemical cues for studying navigation in small animals” , (2012) *Nature Methods*, Jan 15; 9(3):290-6
8. Montague SA, **Mathew D**, Carlson JR. “Similar odorants elicit different behavioral and physiological responses, some supersustained” (2011) *J Neurosci*, May 25; 31(21): 7891-9
9. Kreher SA, **Mathew D**, Kim J, Carlson JR. “Translation of sensory input into behavioral output via an olfactory system” (2008) *Neuron* July 10; 59(1): 110-24
10. Ataman B, Ashley J, Gorczyca D, Gorczyca M, **Mathew D**, Wichmann C, Sigris SJ and Budnik V. “Nuclear trafficking of *Drosophila* Frizzled-2 during synapse development requires the PDZ protein dGRIP” (2006) *Proc Natl Acad Sci U S A.* May 16; 103(20): 7841-6
11. **Mathew D**, Ataman B, Chen J, Zhang Y, Cumberledge S and Budnik V. “Novel mechanism of wingless signaling at synapses via DFrizzled2 cleavage and nuclear import” (2005) *Science* Nov 25; 310 (5752): 1344-7.

*See also commentary in 'Science Perspectives':* Martinez Arias A. 2005. Cell signaling. Frizzled at the cutting edge of the synapse. *Science* Nov 25; 310 (5752): 1284-5.

12. **Mathew D**, Popescu A and Budnik V. "Drosophila amphiphysin functions during synaptic Fasciclin II membrane cycling" (2003) *J Neurosci*. Nov 19; 23(33): 10710-6.
13. **Mathew D**, Gramates LS, Packard M, Thomas U, Bilder D, Perrimon N, Gorczyca M, and Budnik V. "Recruitment of scribble to the synaptic scaffolding complex requires GUK-holder, a novel DLG binding protein" (2002) *Curr Biol* Apr 2; 12(7): 531-9

### Reviews published

14. Packard M, **Mathew D**, Budnik V. "FASt remodeling of synapses in Drosophila" (2003) *Curr Opin Neurobiol* Oct 13; (5): 527-34.
15. Packard M, **Mathew D** and Budnik V. "Wnts and TGF beta in synaptogenesis: old friends signalling at new places" (2003) *Nat Rev Neurosci*. Feb 4; (2): 113-20.

## TEACHING EXPERIENCE

### University of Nevada, Reno, NV

#### Main Instructor

- BIOL-475/675: Neurobiology course, Spring 2015, 2016, 2017
- BIOL-601: Journal club for Neuroscience graduate students. Fall 2015, 2016, 2017, 2018, Spring 2016, 2017, 2018, 2019.
- BIOL-395: Genetics and Cell Biology Lab course, Fall 2015, 2016, 2017, 2018
- CMB-790: Graduate Seminar series, Fall 2018, Spring 2019

#### Guest lecturer

- BME-401/601: Biomedical Engineering, "Neural Circuits", Fall 2018
- BCH-121: Current Issues in Biochemistry & Molecular Biology, "Neuroscience of Smell", Spring 2018
- BIOL-105: Introduction to Neuroscience, "Neuroscience of Smell" Spring 2018
- BIOL-450/650: Biology of sleep and sleep disorders course, "Insect Olfaction and circadian control of olfaction", Fall 2016
- BIOL-418: Sensory systems: Ecology, Evolution, and Diversity course, "Chemical senses: Smell", Fall 2016
- BIOL-105: Introduction to Neuroscience course, "Functional dissection of an olfactory circuit", Spring 2016
- BIOL-450/650: Biology of sleep and sleep disorders course, "Chemical senses: Taste and Smell", Fall 2015
- BIOL-418: Sensory systems: Ecology, Evolution, and Diversity course, "Chemical senses: Taste and Smell", Fall 2015

- BIOL-105: Introduction to Neuroscience course, “Functional dissection of an olfactory circuit”, Fall 2015
- BIOL-105: Introduction to Neuroscience course, “Functional dissection of an olfactory circuit”, Fall 2014

**Cold Spring Harbor, Cold Spring, NY**

**Guest lecturer**

- Neurobiology of Drosophila course, summer 2003
- Neurobiology of Drosophila course, summer 2008

**University of Massachusetts, Amherst, MA**

**Teaching Assistant**

- Biochemistry and Molecular Biology Lab, Fall 1999

**MENTORING EXPERIENCE**

**University of Nevada, Reno, NV**

**Postdoctoral Trainees**

- Eryn Slankster, Ph.D., 2016 – present, current position: University of Nevada, Reno, postdoctoral fellow. (co-author on 3 publications)
- Gunnar Newquist, Ph.D., 2014 – 2015, current position: CEO, Brain2Bot Inc. (co-author on 1 publication)

**Graduate Trainees**

- Roshni Jain (2019 – Present), MS candidate in CMB Program
- David Clark (2015 – present), PhD Candidate in Neuroscience
- Seth Odell (2015 – present), PhD Candidate in Neuroscience
- Alina Vergunova, (2016 – 2018), MS in Neuroscience. Completed
- Sai Kollala, (2014-2016) MS in Biology. Completed.

**Undergraduate Trainees**

- Jaime Giang (2018 – present). PREP Scholar
- Jake Stringer (2018 – present)
- Brianna Dailey-Krempel (2018- present)
- Alexis Moreno-Montes (2018 - present)
- Dominique Baria (2018 – present). Biology Scholarship recipient.
- Sabrina Sevilla (2017 – 2018). Westfall Scholar
- Larissa Gloutak (2017 – 2018). HURA recipient, Honors Thesis completed.
- Hunter Whitehead (2017 – 2018).
- Kelsie Little (2017 – 2018). Biology Scholarship recipient
- America Mathis (2016 – 2018). Co-author on 2 publications.
- Jordan Jones (2016 – 2017), Honors thesis completed.
- Kristen Hess (2016 – 2017), TriBeta Research Award. Co-author on 1 publication.

- Cammie Lee (2016 – 2017), NURA recipient, TriBeta Research Award recipient. Co-author on 1 publication.
- Samipya Kafle (2015 – present). Co-author on 1 publication
- Michelle Nguyen (2015 – 2016)
- Conchita Maberry (2015 – 2016)
- Donovan Kohler (2015 – 2018), HURA recipient. Honors Thesis completed. Co-author on 3 publication.
- Alexandra Novenschi (2015 – 2018), Mead Award recipient, HURA recipient. Honors thesis completed. Co-author on 1 publication.
- Riley Kellermeyer (2015 – 2016) HURA recipient. Honors Thesis completed.
- Lea Cohen (2015 – 2016). HURA recipient. Honors Thesis completed.
- Mariah Turcotte (2015 – 2016). Co-author on 1 publication
- Gwendolyn Amsrala (2015 – 2016).

### **Yale University**

#### **Graduate Trainees**

- Jonas Belina, rotation student 2012, current position: Yale University Ph.D. candidate
- Rebecca Delventhal, rotation student 2011, current position: Columbia University, postdoctoral fellow,
- Laura DeMare, rotation student 2010, current position: Asst. editor, Genome Research
- Shelby Montague, rotation student 2010, current position: Upper School Chemistry and Math Teacher at St. Johns, Country Day School, St. Johns, FL (co-author on 1 publication)

#### **Undergraduate Trainees**

- Christopher Brusalis, 2011 – 2012, current position: University of Pennsylvania Medical student (co-author on 1 publication)
- Eliza Kelly-Swift, 2012 – 2013, current position: Registered Nurse

### **University of Massachusetts Medical School**

#### **Undergraduate Trainees**

- Marietta Walsh, 2002 – 2003.

#### **Graduate Thesis committee member:**

2015-2016	Karla Hernandez	CMB, PhD, completed
2014-2016	Allie Scurry	INP, MS, completed
2015-2017	Matthew Lewon	Psychology, PhD, completed
2016-2017	Elizabeth Groesbeck	INP, MS, completed
2016-2017	Matthew Gruner	CMB, PhD, completed
2016-2017	Katie Tregullis	Psychology, PhD, completed
2017-2018	Carmen Mo	Biology, MS, completed
2017-2018	Siddharth Srivastav	Psychology, PhD, completed
2017-2019	Jeremy Grubbs	CMB, PhD, completed
2017-	Rebecca Ijekah	INP, MS, in progress
2017-	Ivana Ilic	INP, PhD, in progress

2018-	Maryann Swain	INP, PhD, in progress
2018-	Vanessa Gutierrez	CMB, PhD, in progress
2018-	Anna Tatarko	Biology, PhD, in progress
2018-	Chowdhury Raiha Bikash	Chemistry, PhD, in progress
2018-	Owen Knobbe	INP, MS, in progress
2019-	Talia Retter	INP, PhD, in progress

### INVITED TALKS

1. **Mathew D** Functional Diversity among olfactory neurons. Entomology Society of America, Pacific Branch Meeting. Reno, NV. June 2018
2. **Mathew D** Functional Diversity among olfactory neurons. Seminar series, University of California, Riverside, CA. May 2018
3. **Mathew D.** Functional diversity among Olfactory neurons. *CMB Seminar Series*, University of Nevada, Reno. November 2016.
4. **Mathew D.** Functional dissection of an olfactory circuit. *Biochemistry Seminar Series*, University of Nevada, Reno. April 2016.
5. **Mathew D.** Functional dissection of an olfactory circuit. *Brousseau Lecture Series*, St. Mary's College of California, November 2015.
6. **Mathew D.** Functional dissection of an olfactory circuit. *Dept. of Biological Sciences Seminar series*, University of Cincinnati, October, 2015.
7. **Mathew D.** Functional contributions of olfactory receptor neurons in *Drosophila melanogaster* larva, *Chemical Neuroecology symposia* at the International Society of Chemical Ecology (ISCE), Sweden, July 2015. (did not present)
8. **Mathew D.** Functional dissection of an olfactory circuit. *CMB Seminar Series*, University of Nevada, Reno, November 2014.
9. **Mathew D.** Odor coding by the entire repertoire of larval odor receptors. *MCD-Biology Annual Retreat*, Yale University, September 2011.
10. **Mathew D.** Odor coding by the repertoire of larval odor receptors. *Neural circuits to Behavior session* at the Bangalore Maggot Meeting, Bangalore, India, July 2010.
11. **Mathew D.** Odor coding by the entire repertoire of larval receptors. *50<sup>th</sup> Annual Drosophila Research Conference*, April 2009.
12. **Mathew D.** Odor coding in the *Drosophila* larva. *MCD-Biology Annual Retreat*, Yale University, September 2007

13. **Mathew D.** Odor coding and discrimination by the entire repertoire of larval receptors. *48<sup>th</sup> Annual Drosophila Research Conference*, April 2007.
14. **Mathew D.** DFrizzled2 cleavage and nuclear import: A novel mechanism for wingless signaling at synapses. *Neurobiology of Drosophila Conference*, October 2005
15. **Mathew D.** Guk-holder, a novel synaptic protein that links Discs-large and Scribble at the neuromuscular junction. *Neurobiology of Drosophila Conference*, October 2001

## POSTERS

1. Slankster E, Baria D, Jain R, Odell S, and **Mathew D.** Starvation differentially modulates GABA signaling in olfactory sensory neurons. *Gordon Research Conference (Modulation of Neural Circuits and Behavior)*, Les Diablerets, Switzerland, May 2019.
2. Slankster E, Baria D, Jain R, Odell S, and **Mathew D.** Starvation differentially modulates GABA signaling in olfactory sensory neurons. (Achems) *Asoc. of Chemosensory Science conference*, Bonita Springs, FL, April 2019
3. Nuss A and **Mathew D.** Development of Strategies to target key mosquito host-seeking factors governing human host preference, DARPA Young Faculty Award Symposium. DARPA Arlington, VA, August 2018
4. Novenschi A, **Mathew D.** Contributions of Individual olfactory receptor neurons and GABA expression patterns to olfactory behavior. *Nevada Undergraduate Research Symposium, University of Nevada, Reno*, May 2018
5. Kohler D, **Mathew D.** Characterizing the role of Drosophila larval local neurons in decision making behavior using optogenetics. *Nevada Undergraduate Research Symposium, University of Nevada, Reno*, May 2018
6. Lee C, and **Mathew D.** Impact of Gut Microbes Olfactory Behavior of Drosophila melanogaster larva. *Beta Beta Beta Biological Honors Society National Convention, Pacific Grove, CA*. May 2018
7. Clark D, Armstrong J, Turcotte, M, Kohler D, Mathis A, Schmidt D, and **Mathew D.** Functional Classification of Olfactory Receptor Neurons in Drosophila. *59<sup>th</sup> Annual Drosophila Conference, Philadelphia, PA*, April 2018
8. Odell S, Kollala S, Slankster E, Kafle S, and **Mathew D.** Differential Modulation of Olfactory Receptor Neurons in a Drosophila Olfactory circuit. *59<sup>th</sup> Annual Drosophila Conference, Philadelphia, PA*, April 2018
9. Odell S, Kollala S, Slankster E, Kafle S, and **Mathew D.** Differential Modulation of Olfactory Receptor Neurons in a Drosophila Olfactory circuit. (Achems) *Asoc. of Chemosensory Science conference, Bonita Springs, FL*, April 2018



10. Nuss A and **Mathew D.** Development of Strategies to target key mosquito host-seeking factors governing human host preference, DARPA Young Faculty Award Symposium. DARPA Arlington, VA, August 2017
11. Odell S, Kollala, S, Slankster E, Kafle S, and **Mathew D.** Differential Modulation of Olfactory Receptor Neurons in a Drosophila Olfactory circuit. *GSA Poster symposium, University of Nevada, Reno, November 2017*
12. Odell S, Kollala, S, Slankster E, Kafle S, and **Mathew D.** Differential Modulation of Olfactory Receptor Neurons in a Drosophila Olfactory circuit. *SfN Local Chapter, University of Nevada, Reno, October 2017*
13. Clark D, Armstrong J, Turcotte M, Kohler D, Mathis A, Schmidt D, and **Mathew D.** Functional classification of Olfactory Receptor Neurons in a Drosophila olfactory circuit. *SfN Local Chapter, University of Nevada, Reno, October 2017*
14. Kollala S, Odell, S, Slankster E, Kafle S, and **Mathew D.** Differential Modulation of Olfactory Receptor Neurons in a Drosophila Olfactory circuit. *Neurobiology of Drosophila, Cold Spring Harbor Laboratories, CSHL, NY, October 2017*
15. Vergunova A, Tuttle O, Whitehead H, and **Mathew D.** Characterizing the role of Or94a and Or94b co-expression in a single ORN. *Integrated Neuroscience Graduate Program Retreat, University of Nevada, Reno, September 2017*
16. Odell S, Kollala, S, Slankster E, Kafle S, and **Mathew D.** Differential Modulation of Olfactory Receptor Neurons in a Drosophila Olfactory circuit. *Integrated Neuroscience Graduate Program Retreat, University of Nevada, Reno, September 2017*
17. Clark D, Armstrong J, Turcotte M, Kohler D, Mathis A, Schmidt D, and **Mathew D.** Functional classification of Olfactory Receptor Neurons in a Drosophila olfactory circuit. *Integrated Neuroscience Graduate Program Retreat, University of Nevada, Reno, September 2017.*
18. Nuss A and **Mathew D.** Development of Strategies to target key mosquito host-seeking factors governing human host preference, *DARPA Young Faculty Award Symposium.* DARPA Arlington, VA, August 2017
19. Clark D, Armstrong J, Schmidt D, and **Mathew D.** Incorporating Olfactory Neuron Diversity to build a reliable odor coding models. *Achems 2017, Bonita Spring, FL, April 2016.*
20. Hess K, Slankster E, and **Mathew D.** Impact of Gut Microbiota on Host Olfactory Behavior. *2017 Beta Beta Beta Biological Honor Society's Pacific District Convention, April 2016.*

21. Clark D, Sevilla S, and **Mathew D**. Illuminating circuitry secrets: Building a more reliable odor coding model. *COS Poster symposium, University of Nevada, Reno*, November 2016
22. Odell S, Novenschi A, and **Mathew D**. Localization and function of amyloid precursor protein in olfactory neurons. *COS Poster symposium, University of Nevada, Reno*, November 2016
23. Kollala SS, Kafle S, and **Mathew D**. Differential modulation of olfactory receptor neurons in a Drosophila olfactory circuit. *COS Poster symposium, University of Nevada, Reno*, November 2016
24. Clark D, Sevilla S, and **Mathew D**. Illuminating circuitry secrets: Building a more reliable odor coding model. *GSA Poster symposium, University of Nevada, Reno*, November 2016
25. Odell S, Novenschi A, and **Mathew D**. Localization and function of amyloid precursor protein in olfactory neurons. *GSA Poster symposium, University of Nevada, Reno*, November 2016
26. Kollala SS, Kafle S, and **Mathew D**. Differential modulation of olfactory receptor neurons in a Drosophila olfactory circuit. *GSA Poster symposium, University of Nevada, Reno*, November 2016
27. Kellermeyer R and **Mathew D**. Sensory neuron activation to ecologically relevant odorants in Drosophila melanogaster larvae. *Nevada Undergraduate Research Symposium*, April 2016.
28. Novenschi A and **Mathew D**. Circadian modulation of olfactory information processing. *Nevada Undergraduate Research Symposium*, April 2016.
29. Nguen M, Kohler D, and **Mathew D**. miR-124 regulates olfactory behavior in Drosophila larva. *Nevada Undergraduate Research Symposium*, April 2016.
30. Kafle S and **Mathew D**. Short-term conditioning differentially affects olfactory responses to different odorants. *Nevada Undergraduate Research Symposium*, April 2016.
31. Hernandez K, Godoy L, Newquist G, **Mathew D** and Kidd T. Modeling Down syndrome gut nervous system defects in Drosophila. *GSA Fall Poster Symposium, UNR*, November 2015.
32. Newquist G, Turcotte M, Novenschi A, Kohler D, and **Mathew D**. Functional contributions of olfactory receptor neurons in Drosophila melanogaster larva. *Neurobiology of Drosophila Conference*, October 2015.
33. Montague SA, **Mathew D**, and Carlson JR. Translation of olfactory input into behavioral output in the Drosophila larva. *Society for Neuroscience*, November 2011.

34. **Mathew D**, Samuel ADT, and Carlson JR. Odor coding by the entire repertoire of larval receptors. *Janelia Farms Research conference*, April 2008.
35. Ataman B, Ashley J, **Mathew D**, Gorczyca D, and Budnik V. Characterization of Drosophila GRIP at the larval NMJ. *Neurobiology of Drosophila Conference*, October 2007.
36. **Mathew D**, Popescu A, and Budnik V. Drosophila Amphiphysin mediates postsynaptic FasII exocytosis at the neuromuscular junction. *Neurobiology of Drosophila Conference*, October 2003.
37. **Mathew D**, Gramates LS, Packard M, Gorczyca M, Bilder D, and Budnik V. Guk-holder, a novel synaptic protein that links Discs-large and Scribble at the neuromuscular junction. *42<sup>nd</sup> Annual Drosophila Research Conference*, April 2001.

## PROFESSIONAL & UNIVERSITY SERVICE

### Ad-hoc reviewer (Journal articles):

1. Journal of Visual Experiments (2015)
2. Developmental Biology (2015)
3. eNeuro (2015, 2016)
4. Nature communications (2016)
5. Frontiers in Psychology (2017)
6. Behavior genetics (2018)
7. BMC Biology (2018)
8. Frontiers in Neuroscience (2018)
9. Developmental Biology (2018 X 2)
10. BMC Neuroscience (2019)
11. Scientific Reports (2019)
12. Journal of Neurogenetics (2019)

### Reviewer (Grants):

- Grant Review Panel Member, NSF-CAREER Awards (2018)
- External Grant Reviewer, BBSRC (Biotechnology and Biological Sciences Research Council, UK) (2019)

### Department/College/University Service:

- Member, Animal Physiology Search Committee (2015)
- Member, Computational Neuroscience Faculty Search Committee (2016)
- Member, Biology Department Equipment & facilities Strategic Committee (2018 to present)
- Member, Biology Department Strategic Hiring Committee (2018 to present)
- External Member, Cognitive Neuroscience Faculty Search Committee (2015)
- Member, Integrated Neuroscience Graduate Program Steering Committee (2015 to present)

- Member, CMB Graduate Program Curriculum Committee (2015 to present)
- Member, Integrated Neuroscience Graduate Program Curriculum Committee (2016 to present)
- Member, CMB Graduate student Dean's award Committee (2017)
- Faculty Advisor, Beta Beta Beta Biology Honors Society, UNR Chapter (2016 to present)
- Faculty Advisor, (DOSA) Diverse Organization of South Asia (2016 to present)
- Faculty Advisor, Wolf Pack Dance Marathon (2017 to present)
- Elected Member (College of Science Representative), Neuroscience Institute Steering Committee (2018 to present)

## **PROFESSIONAL AFFILIATIONS**

- Genetic Society of America
- Society for Neuroscience
- Connecticut Entomological Society