

Karla R. Kaun, Ph.D.

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EDUCATION AND RESEARCH EXPERIENCE

Associate Professor	Brown University Department of Neuroscience	July 2020-
Assistant Professor	Brown University Department of Neuroscience	2013-2020
Research Specialist	HHMI Janelia Research Campus Advisor: Dr. Ulrike Heberlein	2011-2013
Postdoctoral Fellow	University of California, San Francisco Department of Anatomy, Advisor: Dr. Ulrike Heberlein	2007-2011
Ph.D.	University of Toronto Department of Zoology, Advisor: Dr. Marla B. Sokolowski	2001-2007
B.Sc.	University of British Columbia Department of Psychology, Advisors: Dr. Cathy Rankin, Dr. Janet Werker	1997-2001

SCIENTIFIC INTERESTS

I use an innovative approach to investigate the molecular and neural mechanisms underlying addiction using powerful cutting-edge molecular and genetic tools available in the fruit fly, *Drosophila melanogaster*. My goal is to understand the molecular mechanisms facilitating neuronal plasticity associated with memory, and identify how alcohol and drugs of abuse influence these mechanisms. My lab is currently developing new models to study memory for alcohol and drug intoxication, mapping circuits for these memories, and investigating the molecular mechanisms within these circuits that affect neuronal plasticity and function. This interdisciplinary approach has the potential to contribute to a comprehensive understanding of how cue-induced cravings are formed and maintained, which could lead to development of more effective pharmacotherapies to treat addiction.

HONORS

Recipient, National Association of Biology Teachers <i>Genetics Education Award</i>	2023
Plenary speaker at 64 th Annual <i>Drosophila</i> Research Conference	2023
President, International Behavioural and Neural Genetics Society	2023
Fellow of Inaugural Brown University Faculty Leadership Program	2022
Awarded International Behavioural and Neural Genetics Society Young Investigator Award	2018
Named Robert J. and Nancy D. Carney Assistant Professor of Neuroscience	2015
Awarded Smith Family Award for Excellence in Biomedical Research	2014

PUBLICATIONS

- Fiala A, **Kaun KR** (2024) What do the mushroom bodies do for the insect brain? Twenty-five years of progress. [Learning & Memory 31\(5\), 1-1, a053827.123](#) (Invited Editorial)
- Scaplen KM, **Kaun KR** (2023) Dopamine determines how reward overrides risk. [Nature, 623\(7986\) 258-9](#). (Invited News and Views)
- Hernandez JS, Brown TM, **Kaun KR** (2023) *Drosophila* Reward Circuits. Oxford Research Encyclopedias, Neuroscience. *open access article*, [doi: 10.1093/acrefore/9780190264086.013.495](https://doi.org/10.1093/acrefore/9780190264086.013.495). (Invited Review)
- Nunez KM, Catalano JL, Scaplen KM, **Kaun KR** (2023) Ethanol behavioral responses in *Drosophila*. Cold Spring Harbor Protocols: *Drosophila* Neurobiology. *epub ahead of print*, [doi: 10.1101/pdb.top107887](https://doi.org/10.1101/pdb.top107887).
- Nunez KM, Catalano JL, Scaplen KM, **Kaun KR** (2023) Methods for Exploring the Circuit Basis of Ethanol-Induced Changes in *Drosophila* Group Locomotor Activity. Cold Spring Harbor Protocols: *Drosophila* Neurobiology. *epub ahead of print*, [doi: 10.1101/pdb.prot108138](https://doi.org/10.1101/pdb.prot108138).
- Hernandez J, **Kaun KR** (2022) Alcohol, neuronal plasticity, and mitochondrial trafficking. [Proc Natl Acad Sci 119: e2208744119](#). (Invited Commentary)
- Huggett SB, Ikeda AS, McGeary JE, **Kaun KR**, Palmer RHC (2022) Opioid use disorder and alternative mRNA splicing in reward circuitry. [Genes 13\(6\): 1045](#).
- Scaplen KM, Talay M, Fisher JD, Cohn R, Sorkac A, Aso Y, Barnea G, **Kaun KR** (2021) Transsynaptic mapping of *Drosophila* mushroom body output neurons. [eLife 10: e63379](#).
- Oepen AS, Catalano JL, Azanchi R, **Kaun KR** (2021) The *foraging* gene affects alcohol sensitivity, metabolism and memory in *Drosophila*. [J Neurogenet 7:1-13](#).
- Scaplen KM, Talay M, Nunez KM, Salamon S, Waterman AG, Gang S, Song SL, Barnea G, **Kaun KR** (2020) Circuits that encode and guide alcohol associated preference. [eLife 9: e48730](#).
- Petrucelli E, Brown T, Waterman A, Ledru N, **Kaun KR** (2020). Alcohol causes lasting differential transcription in *Drosophila* mushroom body neurons. [Genetics 215\(1\): 103-116](#).
- Scaplen KM*, Mei NJ*, Bounds HA, Song SL, Azanchi R, **Kaun KR** (2019) Automated real-time quantification of group locomotor activity in *Drosophila melanogaster*. [Scientific Reports 9:4427](#). *These authors contributed equally to this work.
- Petrucelli E, Feyder M, Ledru N, Jaques Y, Anderson E, **Kaun KR** (2018) Alcohol Activates Scabrous-Notch to Influence Associated Memories. [Neuron 100: 1-15](#).
- Petrucelli E, **Kaun KR** (2018) Insights from Intoxicated *Drosophila*. [Alcohol 74: 21-27](#). (Invited Review).
- Nunez K, Azanchi R, **Kaun KR** (2018) Cue-induced alcohol seeking in *Drosophila melanogaster* is dose-dependent. [Front Physiology 9\(438\): 1-12](#).
- Kaun KR***, Rothenfluh A (2017) Dopaminergic rules of engagement for memory in *Drosophila*. [Curr Opin Neurobiol 43: 56-62](#). (Invited Review). *KR Kaun is corresponding author.

Scaplen KM, **Kaun KR** (2016) Reward from bugs to bipeds: A comparative approach to understanding how reward circuits function. [J Neurogenet 30: 133-48](#). (Invited Review)

Engel GL, Marella S, **Kaun KR**, Wu J, Adhikari P, Kong EC, Wolf FW (2016) Sir2/Sirt1 links acute inebriation to presynaptic changes and the development of alcohol tolerance, preference and reward. [J Neurosci 36: 5241-51](#).

Albin SD, **Kaun KR**, Knapp J-M, Chung P, Heberlein U, Simpson J (2015) A subset of serotonergic neurons evokes hunger in adult *Drosophila*. [Curr Biol 25: 2435-40](#).

Aso Y, Sitaraman D, Ichinose T, **Kaun KR**, Vogt K, Belliard-Guerin G, Placais P-Y, Robie A, Nobuhiro Y, Schnaitmann C, Rowell WJ, Johnston RM, Ngo T, Chen N, Korff W, Nitabach M, Heberlein U, Preat T, Branson KM, Tanimoto H, Rubin GM (2014) Mushroom body output neurons encode valence and guide action selection in *Drosophila*. [e-Life 3: e04580](#).

King IF, Eddison M, **Kaun KR**, Heberlein U (2014) EGFR and FGFR pathways have distinct roles in *Drosophila* mushroom body development and ethanol-induced behavior. [PLoS One 9: e87714](#).

Azanchi R*, **Kaun KR***†, Heberlein U. (2013) Competing dopaminergic responses determine behavioral choice in *Drosophila*. [Proc Natl Acad Sci 110: 21153-8](#). *These authors contributed equally to this work. †K.R. Kaun is corresponding author.

PRE-PRINTS:

D'Silva NM, McCullar KS, Conard A, Blackwater T, Azanchi R, Heberlein U, Larschan E, **Kaun KR** (2021) Neuromolecular and behavioral effects of ethanol deprivation in *Drosophila*. [bioRxiv 425101](#).

Catalano JL, Mei N, Azanchi R, Song SL, Blackwater T, Heberlein U, **Kaun KR** (2020) Behavioral features of motivated response to alcohol in *Drosophila*. [bioRxiv 953026](#).

PEDAGOGY-BASED PUBLICATIONS:

Ly S, **Kaun KR**, Lee C-H, Stewart D, Pulver SR, Keene AC (2018) Long term impact of intensive post graduate laboratory training at the Cold Spring Harbor Neurobiology of *Drosophila* summer course. [bioRxiv 369892](#).

WORKS PUBLISHED AS AN EARLY CAREER RESEARCHER:

Brown HLD, **Kaun KR**, Edgar BA (2012) A small GTPase Rheb affects central brain neuronal morphology and memory formation in *Drosophila*. [PLoS One 7: e44888](#).

Shohat-Ophir G, **Kaun KR**, Mohammed H, Azanchi R, Heberlein U (2012) Sexual deprivation increases ethanol intake in *Drosophila*. [Science 335:1351-1355](#).

Kaun KR*, Devineni AV*, Heberlein U (2012) *Drosophila* as a model to study drug addiction. [Hum Genet 131: 959-75](#). (Review) *These authors contributed equally to this work

Kaun KR, Azanchi R, Maung Z, Hirsh J, Heberlein U (2011) A *Drosophila* model for alcohol reward. [Nat Neurosci 14:612-9](#).

Kaun KR, Heberlein, U. (2009). Too fat to fly? New brain circuits regulate obesity in *Drosophila*. [Neuron](#), **63**: 279-81. (Commentary)

Kaun KR, Sokolowski MB (2009) cGMP-dependent protein kinase: linking foraging to energy homeostasis. [Genome 52](#): 1-7.

Kaun KR, Chakaborty-Chatterjee M, Sokolowski MB (2008) Natural variation in plasticity of glucose homeostasis. [J Exp Biol 211](#): 3160-3166.

Kaun KR, Riedl CAL, Chakaborty-Chatterjee M, Belay AT, Douglas SJ, Gibbs AG, Sokolowski MB (2007). Natural variation in food acquisition via a cGMP-dependent protein kinase. [J Exp Biol 210](#): 3547-3558.

Kaun KR, Hendel T, Gerber B, Sokolowski MB (2007) Natural variation in *Drosophila* larval reward learning and memory due to a cGMP-dependent protein kinase. [Learn Mem 14](#): 342-349.

Hendel T, Michels B, Neuser K, Schipanski A, **Kaun K**, Sokolowski MB, Marohn F, Michel R, Heisenberg M, Gerber B (2005) The carrot not the stick: Appetitive rather than aversive gustatory stimulation support associative olfactory learning in individually assayed larvae. [J Comp Physiol A Neuroethol Sens Neural Behav Physiol 191](#): 265-79.

Rose JK, **Kaun KR**, Shen SH, Rankin CH (2003) GLR-1, a non-NMDA glutamate receptor homolog, is critical for long term memory in *Caenorhabditis elegans*. [J Neurosci 23](#): 9595-9599.

Rose JK, **Kaun KR**, Rankin C (2002) A new group-training procedure for habituation demonstrates that presynaptic glutamate release contributes to long-term memory. [Learn Mem 9](#): 130-7.

GRANTS and FELLOWSHIPS

CURRENT FUNDING:

NIDA R01DA058947	Kaun (PI)	2023-28
<i>Gene regulation in memory circuits as a consequence of polysubstance abuse</i>		
The goal of this project is to understand the molecular mechanisms through which preference for alcohol or nicotine influence methamphetamine response. With Brown University collaborators Kate O'Connor-Giles and Erica Larschan. (Impact score 28, for special RFA on mechanisms of polysubstance use)		
Brown University Salomon Award	Kaun (PI)	2023-24
<i>Molecules for Need and Want</i>		
The goal of this project is to understand how to understand how to best bridge the gap between the molecular basis of addiction and latest progressive policies on substance uses disorder.		
NIGMS R01GM115510	Kaun (Co-PI)	2023-27
<i>Functional role of dual neurotransmission in aggression</i>		
The goal of this project is to understand the neural and molecular mechanisms through which octopamine and glutamate co-transmission mediate behavior. We will perform <i>in vivo</i> imaging in behaving flies. With collaborators Sarah Certel (University of Montana) and Steve Stowers (Montana State)		
Brown University Seed Funding	Kaun (PI)	2022-24
<i>Establishing a Drosophila model of opioid self-administration</i>		
The goal of this project is to develop a <i>Drosophila</i> model for opioid self-administration and identify the receptors associated with this response.		

- Hubert & Richard Hanlon Trust Grant Award Kaun (Co-PI) 2020-24
The Stress Factor: Understanding the role of norepinephrine in Alcohol Use Disorder
 The goal of project is to understand how the alpha-1 receptor antagonist doxazosin, commonly used to alleviate high blood pressure, affects the brain to reduce alcohol consumption during stress conditions. *Drosophila* will be used to identify how microcircuits are affected during alcohol memory expression. This will be complemented by investigating how the drug attenuates neural activity and alters brain metabolites in humans with collaborators Drs. Tara White (Behavioral and Social Sciences), Carolina Haass-Koffler (Psychiatry & Human Behavior) and John McGeary (Psychiatry & Human Behavior).
- NIAAA R01AA24434 Kaun (PI) 2016-26
Notch-dependent microcircuit regulation of alcohol reward memory
 The goal of this project is to understand a how a feed-forward dopamine-glutamate-acetylcholine circuit functions during formation of alcohol reward memory and alcohol seeking, and to identify Notch-dependent transcriptional regulation within this circuit during alcohol exposure.
- COMPLETED FUNDING:**
- NIDA R21DA042622 Kaun (PI) 2019-22
Whole-brain mapping of opiate sensitive circuits in Drosophila
 The goal of this project is to identify the *Drosophila* μ opiate receptor (μ OR), and investigate brain wide expression of μ ORs at a single cell level, define which of these neurons are involved in the reward and aversion, and understand how these circuits are integrated.
- Carney Innovation Award Kaun (Co-PI) 2018-20
 With Co-PI Dr. Kate O'Connor-Giles, Brown University
Understanding contributions of alternative splicing to appetitive memory
 The goal of this project is to understand how alternative splicing events that occur as a result of formation of memory of a cue with alcohol intoxication affect the subsequent function of reward memory circuits.
- BIBS NPNI New Frontier Award Kaun (Co-PI) 2017-19
 With Co-PI Dr. John McGeary, Psychiatry and Human Behavior, Brown University
The role of Microfibrillar Associated Protein 2 (MFAP2) and Notch1 in alcohol cravings
 The goal of this project is the use some of our findings from the role of Scabrous and Notch in *Drosophila* to increase our understanding of genetic variation associated with alcohol cravings in humans.
- NIAAA R01AA24434-03S1 Kaun (PI) 2018-19
Notch-dependent microcircuit regulation of alcohol reward memory
 The goal of this project is to understand a how alcohol regulates neurodegeneration associated with Alzheimer's Disease through Notch signaling.
- United-States Israel Binational Research Foundation Start-up Grant Kaun (Co-PI) 2016-19
 With Co-PI Dr. Moshe Parnas, Tel-Aviv University
Microcircuits for reward driven decisions in Drosophila
 The goal of this project is to understand the electrophysiological responses within a dopamine-glutamate circuit during acute alcohol intoxication and memory for the intoxicating properties of alcohol.
- NSF MCB EAGERS for Conference / Symposium Kaun (Course Co-Director) 2017-20
 PI: D. Stewart, IOS1523125
CSHL Drosophila Neurobiology: Genes, Circuits & Behavior Course
 The goal of this funding was to provide support for students, teaching assistant and visiting faculty of the 2016-2018 CSHL *Drosophila* Neurobiology course. This grant was prepared in collaboration with S. Pulver (St. Andrews University) and C-H. Lee (NIHCD, and Academia Sinica, Taiwan).
- BIBS COBRE Center for Nervous System Function Kaun (Project Leader) 2015-18
 PI: J Sanes 5P20GM103645-03 (NIGMS)

Microcircuits for reward-driven decisions in Drosophila

This project was intended to develop genetic tools for *in vivo* visualization of dopamine autoreceptors in order to understand how a dopamine-glutamate feedback loop regulates alcohol memory.

Rhode Island Foundation Medical Research Grant Kaun (PI) 2015-16

Neuronal mechanisms underlying rewarding memories of alcohol intoxication

The goal of this project was to investigate the sparse populations of dopamine neurons in acquisition and expression of alcohol memory.

Smith Family Awards Program for Excellence in Biomedical Research Kaun (PI) 2014-18

Neuro-molecular mechanisms of alcoholism

The goal of this project was to investigate the neural and molecular mechanisms within a simple feedback loop that mediates the switch from aversive to appetitive alcohol memory.

RI-INBRE Kaun (Project Leader) 2014-16

PI: Z. Shaikh, P20GM103430 (NIGMS)

The role of Notch signaling in alcohol reward memory

The goals of this project were to define where *Notch* affects alcohol reward memory in the adult *Drosophila* brain and to identify genes that are the direct targets of *Notch*.

Brown University Seed Funding Kaun (Co-PI) 2014

With Co-PI Dr. Gilad Barnea, Neuroscience, Brown University

Establishing a technique for studying the neural circuits underlying alcohol responses in flies

The goal of this project was to test a new *Drosophila* genetic trans-synaptic tracing tool developed by Dr. Barnea to identify neurons post-synaptic alcohol memory circuits.

MENTEE FUNDING:

Dean's Diversity Fellowship in Biology and Medicine to Postdoctoral Associate Dr. Rebecca Oramas	2024
Undergraduate Teaching and Research Fellowship to Megan Wang	2024
Undergraduate Teaching and Research Fellowship to Liliansa Cunha	2024
IBANGS travel award to Postdoctoral Fellow Dr. John Hernandez	2024
IBANGS travel award to PhD student Tariq Brown	2023
Undergraduate Teaching and Research Fellowship to Brian Lee	2023
Undergraduate Teaching and Research Fellowship to Miauxochitl Haske	2023
Undergraduate Teaching and Research Fellowship to Rohan Freedman	2022
Undergraduate Teaching and Research Fellowship to Imaad Said	2022,23
Undergraduate Teaching and Research Fellowship to Owen Wogmon	2022
F31 Ruth L. Kirschstein NRSA to PhD Student Tariq Brown	2022-25
F32 Ruth L. Kirschstein NRSA to Postdoctoral Associate Dr. John Hernandez	2021-24
Dr. Daniel C. Cooper Graduate Award and Mahoney Fund to PhD student Tariq Brown	2021-22
Chemers Neustein '75 and Dana Graduate Fellowship to PhD Student Jamie Catalano	2020-21
F99/K00 NIH Blueprint D-SPAN Award to PhD student Kavin Nunez	2020-25
Collaborative SPRINT Award to Vaishnavi Sankar	2020
Undergraduate Teaching and Research Fellowship to Eve Glenn	2020
Presidential Scholar Summer Undergraduate Research Award to Anthony Walley	2019
HHMI Gilliam Fellowship awarded to PhD student Kavin Nunez	2018-20
Research Society for Alcoholism travel award to Postdoctoral Associate Dr. Emily Petruccelli	2018
Undergraduate Teaching and Research Fellowship to Ryan Cohen	2018
Undergraduate Teaching and Research Fellowship to Sydney Gang	2018
Undergraduate Teaching and Research Fellowship to Fahim Mahmud	2018
HHMI EXROP Summer Undergraduate Research Award to Tyler Blackwater	2018
Undergraduate Teaching and Research Fellowship to Sophia Song	2017
Four Directions Summer Undergraduate Research Program Award to Tyler Blackwater	2017
IBANGS travel award to post-doctoral associate Dr. Kristin Scaplen	2015

Undergraduate Teaching and Research Fellowship to Samantha Hyung	2016
Undergraduate Teaching and Research Fellowship to Rachel Muster	2015
Undergraduate Teaching and Research Fellowship to Hayley Bounds	2015
Undergraduate Teaching and Research Fellowship to Sophie Yan	2014

EARLY CAREER AWARDS:

IBANGS Young Investigator Travel Award (\$2,500)	2011
Heart & Stroke Foundation of Canada Postdoc Research Fellow (\$100,000)	2008-10
University of Toronto PhD Finishing Grant (\$2,500)	2006-7
Ontario Graduate Scholarship in Science and Technology (\$15,000)	2005-6
University of Toronto Sheila Freeman Graduate Award in Zoology (\$2,277)	2005
NSERC Canadian Graduate Scholarship (\$70,000)	2003-5
University of Toronto Frederic P. Ide Scholarship in Zoology (\$1,648)	2003
NSERC Post-graduate Scholarship A (\$34,600)	2001-3
University of Toronto Senior Alumni Association Prize in Zoology (\$800)	2003
University of Toronto Frederick P. Ide Scholarship in Zoology (\$1,500)	2002
NSERC Undergraduate Research Award (\$4,000)	2000
UBC Outstanding Student Initiative (\$10,000)	1997-01
UBC Norman MacKenzie Alumni Scholarship (\$1,750)	1997-8

SERVICE and OUTREACH

UNIVERSITY SERVICE:

Brown University Service and Outreach Involvement

Women in STEM Brown Networking Conference	<u>Panelist</u>	2023
Neuro Dept. Undergrad. Group Lab Tours	<u>Host</u>	2022
Conflict of Interest Review and Management Committee	<u>Member</u>	2020-present
Native American & Indigenous Studies Steering Comm.	<u>Ad hoc member</u>	2019
CLPS Whalen Award selections	<u>Reviewer</u>	2019,20
Brown University Big Bang Waterfire	<u>Invited Public Lecture Speaker</u>	2018
Brown Staff Outreach Seminar	<u>Invited Carney Faculty Speaker</u>	2018
Mind-Brain Research Day	<u>Poster judge</u>	2017,19
Young Scholars Conference	<u>Faculty Participant</u>	2015,16,18
Living Biology First Year Science Outreach	<u>Invited Faculty Speaker</u>	2017
Smith Award applications	<u>Reviewer</u>	2016-18
UTRA applications	<u>Reviewer</u>	2016,17
BIBS graduate award applications	<u>Reviewer</u>	2016
Division of Advancement (OFR) Young Faculty Panel	<u>Panelist</u>	2016
Neuroscience convocation	<u>Faculty reader</u>	2015,19
BIBS Advanced Microscopy Symposium	<u>Co-organizer</u>	2015
International Mentoring Program Orientation	<u>Faculty Participant</u>	2015
Day of Biology	<u>Lab Tour (Host)</u>	2015
GWiSE “Women in Stem” Panel	<u>Panelist</u>	2015
Brown 250 th Anniversary “Brains at Brown”	<u>Interactive Demo Leader</u>	2014
“Women in Science and Engineering” Event	<u>Guest Speaker</u>	2013

Brown University Neuroscience Departmental Commitments

Appointments and Promotions Committee	<u>Committee Member</u>	2022-present
Diversity and Inclusion Action Plan Committee	<u>Committee Member</u>	2019-present
Undergraduate Curriculum Committee	<u>Committee Member</u>	2019-22
Graduate Program Student ‘In House’ Seminar Series	<u>Faculty Co-ordinator</u>	2018-22
Graduate Program Admissions Committee	<u>Committee Member</u>	2016-present
Graduate Program Steering Committee	<u>Committee Member</u>	2015-2020

HHMI Janelia Farm Research Campus Service

“Transitions from Post-doc to PI”

Panelist

2014

ACADEMIC SERVICE:

Academic Society Service

President, International Behavioural and Neural Genetics Society

2023-present

President-elect, International Behavioural and Neural Genetics Society

2022-23

Editorial Service

Editor, *Learning & Memory*, 25th Anniversary Edition on the Mushroom Body

2023-present

Associate Editor, *Genetics* (Neurobiology & Behavior Section)

2020-present

Conference Program Committees

Society for Neuroscience

Program Committee Member

2018-22

Research Society on Alcoholism

Program Committee Member

2019-21

IBANGS Genes, Brains & Behavior

Program Committee Member

2019-present

IBANGS Genes, Brains & Behavior

Ad hoc Program Committee Member

2017

Grant Review

NIH, NIAAA AA-4, NIGMS/NIDA NMB

Ad hoc Reviewer

2023

NIH, NIDA special emphasis, LMND

Ad hoc Reviewer

2022

NIH, NIAAA NAL

Ad hoc Reviewer

2020,21

NIH, NIDA special emphasis panels

Panelist

2019-21

NIH, NIAAA special emphasis panels

Panelist

2019,20

The Royal Society (UK grant agency),

Ad hoc Reviewer

2019

French National Research Agency (ANR)

Ad hoc Reviewer

2018

NIH Neurotoxicology and Alcohol

Ad hoc Panelist

2018

The Wellcome trust / DBT India Alliance (UK/India grant agency)

Ad hoc Reviewer

2017

Medical Research Council (UK grant agency)

Ad hoc Reviewer

2017

NSF Division of Integrative Organismal Systems, Neural Systems

Panelist

2016

NSF Division of Integrative Organismal Systems, Neural Systems

Ad hoc Reviewer

2014

External PhD thesis examiner

Martin Sabandal, Davis Lab, Scripps Florida

2022

Yuanyuan Li, Masek Lab, Binghamton University

2021

Joey Adams, Griffiths Lab, Brandeis University

2020

Bethany Christmann, Griffiths Lab, Brandeis University

2015

International Scientific Training Course Co-Director

CSHL Neurobiology of *Drosophila*: Genes, Brains & Behavior

2014-17

Ad hoc scientific journal review: *Molecular Psychiatry, Biological Psychiatry, Cell Reports, PLoS Genetics, PLoS Biology, Genetics, G3, Neuron, Journal of Neuroscience, Journal of Neuroscience Methods, Proc Natl Acad Sci, Genes Brain Behavior, Journal of Studies Alcohol and Drugs, Behavioral Neuroscience, Alcohol, Addiction Biology, Alcohol Clin Exp Res, Animal Behavior, JoVE, Journal of Neurogenetics, Cell and Tissue Research, Current Biology, Nature Communications, Scientific Reports, BMC Biology, Nature, eLife, Journal of Experimental Biology, Frontiers in Physiology, Journal of Comparative Neurology, The Scientist, Psychopharmacology, Science, Learning & Memory*

SYMPOSIA ORGANIZED / CHAIRED:

Of Flies and Rodents: Transcription, Translation and Metabolism of Alcohol Use Disorder, Research Society for Alcoholism 42 nd Annual Meeting, Bellevue, WA	<u>Session Co-Chair</u>	2023
Alcohol and the Nervous System Gordon Research Conference, Ventura, CA	<u>Session Chair</u>	2022
63 rd Annual Drosophila Research Conference, San Diego, CA	<u>Session Co-Chair</u>	2022
International Behavioural and Neural Genetics Society, Genes, Brains and Behavior Annual Conference, Woodshole, MA	<u>Co-Organizer</u>	2021-22
Genetic and Molecular Mechanisms underlying Complex Behavior Janelia Scientific Milestone Symposium (to honor Dr. Ulrike Heberlein)	<u>Co-Organizer</u>	2019
Boston Area <i>Drosophila</i> Meeting, Providence, RI	<u>Co-Organizer</u>	2019
Alcohol Regulation of RNA Splicing and Binding Proteins in the Brain Research Society for Alcoholism 42 nd Annual Meeting, Minneapolis, MN	<u>Session Co-Chair</u>	2019
Higher Brain Function and Behavioral Plasticity CSHL Neurobiology of <i>Drosophila</i>	<u>Session Chair</u>	2019
Neural Circuits to Information Processing to Behavior Columbia University Workshop on Brain Circuits, Memory and Computation	<u>Session Chair</u>	2019
Neuromodulation and its evolution Janelia Neuro-evo: A comparative approach to cracking circuit function	<u>Session Chair</u>	2016
Brown Institute for Brain Science Symposium Advanced Microscopy Techniques in Biomedical Research	<u>Co-Organizer</u>	2015
Technological Innovations Workshop CSHL Neurobiology of <i>Drosophila</i> Meeting	<u>Session Co-Chair</u>	2015

COMMUNITY OUTREACH:

Career and Science discussion	<u>UBC Science One Program</u>	2024
Career and Science discussion	<u>UBC Coordinated Science Program</u>	2023
<i>Drosophila</i> Neurogenetics Demo	<u>RI Brain Fair</u>	2023
Brain Talk: A Lunchtime Series	<u>RI Brain Week Events</u>	2022
Frontier School Division, Manitoba, Canada	<u>Virtual Lab Tours and Demos</u>	2021
Tumbler Ridge Secondary School, BC, Canada	<u>Alumni Speaker</u>	2020,22
Bryant University Perspectives on Addiction Panel	<u>Panelist</u>	2019
Hamden Meadows School Grade 4 outreach	<u>Human brain activity leader</u>	2018,22,23
Brown University Big Bang Waterfire	<u>Invited Public Lecture Speaker</u>	2018
STEAM Connections (BEF Science Outreach Event)	<u>Exhibitor, Mentor</u>	2015

MEDIA-RELATED SCIENCE COMMUNICATION:

Scientific Sense podcast with Dr. Karla Kaun	2024
Can we train our brains to avoid addiction? Mornings with Simi, Radio Show	2024

Alcohol and Drugs Rewire Your Brain by Changing How Your Genes Work Article in The Conversation .	2024
Carney Conversations: "What can drunk flies tell us about addiction". Public Outreach Conversation about my research with Drs. Diane Lipscombe and Chris Moore	2020
Quoted as an expert Scientist in 'Wired' Magazine "The most complete brain map ever is here: A fly's 'connectome'"	2020
Rhode Island The Public's Radio (NPR), "Researchers Study Alcohol's Effects with Drunk Fruit Flies" by Shane McKeon	2019
News Features Based on Petrucci <i>et al</i> Neuron 100:1-15. "Alcohol activates Scabrous-Notch to influence associated memories" Newsweek, The Independent, Forbes, Inverse, DailyMail, News-Medical.net, Earth.com, Science Daily, Infosurhoy, Medical Xpress, Futurity, WILX-TV, TheFix.com, The University Network, Interesting Engineering, Global News Radio, Yahoo News, Wine Spectator, Tribune India, Sun Star Times, CBS News Radio, VICE, MSN, Economic Times, Financial Express, Business Standard, Technology Networks, Outlook India, Neuroscience News, Lab Manager, Midibulletin, NDTV, The Boar, Science Trends, The Spirits Business, Inquirer.net, Devdiscourse, Daily Pioneer, the fix, Reddit	2018
Quoted as an expert scientist in The Atlantic "Scientists Genetically Engineered Flies to Ejaculate Under Red Light" by Ed Yong	2018
Podcast Interview: People Behind the Science with Dr. Marie McNeely "Taking a shot at understanding the neural and molecular mechanisms of alcohol addiction"	2014

TEACHING EXPERIENCE

International Post-Graduate Teaching

CAJAL Advanced Neuroscience Training, Lisbon, Portugal <i>Quantitative Approaches to Behavior and Virtual Reality</i> (Seminar speaker)	2024
MBL Neurobiology: Mechanisms & Advances, Cape Cod, MA <i>Ed Kravitz Special Lecture</i>	2017
Cold Spring Harbor Laboratory, NY <i>Drosophila Neurobiology: Genes, Circuits Behavior Course</i> Instructor	2014-17
<i>Drosophila Neurobiology: Genes, Circuits Behavior Course</i> Lecturer	2013-18

University Course Teaching

Brown University Course Instructor NEUR 1640: <i>Behavioral Neurogenetics Laboratory</i>	2022-present
NEUR 1040: <i>Introduction to Neurogenetics</i>	2015-present
NEUROPRACTICUM Neuroscience Graduate Program Intensive 8-day laboratory training course	2020

University Course Guest Lectures

Brown University, RI, <i>NEUR Grad Student Seminar: How to incorporate feedback into your writing</i>	2023
<i>NEUR 2030: Advances in Cellular and Molecular Neurobiology I</i>	2015-23
<i>NEUR 2040: Advances in Cellular and Molecular Neurobiology II</i>	2014-23
<i>NEUR 1740: The Diseased Brain</i>	2014,15,18
<i>Biomed Responsible Conduct of Research: Rigor and Reproducibility</i>	2018
<i>NEUR 1020: Principles of Neurobiology</i>	2019
<i>NEUR Grad Student Seminar: How to give a chalk-talk</i>	2019
University of San Francisco, CA, <i>Introduction to Animal Biology</i>	2009

MENTORING EXPERIENCE**Brown University: Kaun Lab Mentees**

* Under-represented minority in STEM (Native American, Hispanic or African American)

¶ First generation college student

BLUE represents current position

Post-doctoral Associates:

Dr. Rebecca Oramas (Neuroscience)	2024-present
Dr. Lewis Sherer (Neuroscience)	2023-present
Dr. John Hernandez* (Neuroscience)	2019-present
Dr. Natalie D'Silva¶ (Neuroscience), Research Scientist, Providence VA Medical Center	2018-21
Dr. Kristin Scaplen (Neuroscience), Assistant Professor, Bryant University	2014-20
Dr. Emily Petruccelli (Neuroscience), Assistant Professor, S. Illinois Univ. Edwardsville	2015-18

Graduate students:

Tariq Brown* (Neuroscience)	2019-present
Katie McCullar* (Neuroscience), M.Sc. Research Tech, Sleep for Science Program	2018-21
Jamie Catalano (Molec. Pharmacol. & Physiol.), M.Sc. Biostatistician, PA	2018-21
Kavin Nunez*¶ (Molec. Pharmacol. & Physiol.), Ph.D., Postdoc, Nagel Lab NYU	2016-21
Nicolas Mei (Neuroscience), M.Sc., Software developer, Allen Institute	2014-17

Undergraduate students:

Liliana Cunha (Neuroscience)	2024
Megan Wang (Neuroscience)	2023-present
Brian Lee (Neuroscience)	2023-present
Miauaxochitl Haskie* (Biology, Neurobiology), Awarded Viewer's Choice Poster Award at Biology Senior Poster Symposium	2022-24
Imaad Said (Neuroscience), Awarded Dept James T. McIlwain Award for Excellence Senior Thesis Prize, Medical School, University of Wisconsin Milwaukee	2022-24
Owen Wogmon (Neuroscience), Awarded Dept Neuroscience Senior Thesis Prize Fulbright Scholar	2021-23
Rohan Freedman (Neuroscience)	2021-23
Eve Glenn* (Neuroscience), Awarded CLPS Whalen Senior Thesis Prize MD Candidate, Yale University	2020-22
Raffee Wright* (Behavioral Genetics), PhD Candidate, University of Edinburgh	2019-21
Vaishnavi Sankar (Neuroscience and Music), Awarded Department of Neuroscience Senior Thesis Prize and Whalen Senior Thesis Prize MD Candidate, Baylor University	2019-21
Mariel Magditis (Neuroscience), MD Candidate, UCSF	2018-21
Mara Kessler (Middle East Studies)	2020
Anthony Walley*¶ (Neuroscience), Research Associate, UMass Medical School	2019
Destinee Semidey¶ (BP-Endure student), PhD Candidate, OHSU	2019
Keanu Hunter*¶ (Biology)	2019
Breanna Demestichas (Binghamton University, Biochemistry), PhD Candidate, Brown University	2018
Fahim Mahmud¶ (Biology)	2017
Sydney Gang (Biology, Neurobiology)	2017-19
Ryan Cohen (Biology, Neurobiology), Software Development Engineer, Adobe	2017-19

Tyler Blackwater* [¶] (Computational Biology)	2016-19
Sophia Song (PLME, Neuroscience), Awarded John P. Donoghue Senior Thesis Prize , MD Candidate, Brown University	2016-19
Yanabah Jacques* (Cognitive, Linguistic & Psychological Sciences), PhD Candidate, UC Berkeley Neuroscience	2016-18
Jack Martin* [¶] (Chemistry, Indigenous Studies)	2016-17
Gina Chieffallo [¶] (Cognitive, Linguistic & Psychological Sciences)	2016-17
Jaclyn Dell [¶] (Leadership Alliance student), MSc USF, Fulbright Scholar U. Birmingham	2016
David Miller* (Neuroscience)	2016
Nicolas Ledru (Biology), Awarded Senior Thesis Kidwell Prize in Genetics , MD/PhD Candidate, Washington University,	2015-17
Samantha Huynh [¶] (Neuroscience)	2015-16
Dharsan Chandrakumar (Neuroscience)	2015
Helen Ding (Neuroscience)	2015
Rachel Muster (Neuroscience), MD candidate, UCSF	2014-16
Minjae Kwon (Biology), Dentistry candidate, South Korea	2014-15
Hayley Bounds (Neuroscience), PhD candidate, UC Berkeley Neuroscience	2014-15
Sophie Yan (Public Health), Associate, Bank of America Merrill Lynch	2014-15
Alex Chen [¶] (BP-Endure student), PhD candidate, University of Michigan Neuroscience	2014
Edward Lee (Biology), MD candidate, Loma Linda Medical School	2014

Postbaccalaureate Research Education Program students:

Nelson Le [¶] , Data Analyst, Nationwide Insurance	2022-23
Yanabah Jaques*, PhD Candidate, UC Berkeley Neuroscience	2018-19
Nishell Savory* [¶] , PhD Candidate, Drexel University	2016-17

Research Assistants:

Dr. Edward Anderson, Research Scientist, UNC Catalyst for Rare Disease	2017-18
Michael Feyder [¶] (Technician), PhD Candidate, UMass Med School Biochemistry	2015-17
Amanda Waterman (Technician)	2017-present
Reza Azanchi [¶] (Lab Manager)	2013-present

High School Students

Aroosa Chima (New Orleans)	2014-15
Harry Kuperstein (Southborough, MA)	2016-17

Brown University: Thesis Committee Mentees

Krishna Amin (Neuroscience)	2024-present
Adam Frieburg (Neuroscience)	2023-present
Angel Okoro (Neuroscience)	2022-present
Rares Mosneau (Neuroscience)	2022-present
James Kentro (Molecular Biology, Cell Biology and Biochemistry)	2021-present
Pablo Iturralde (Neuroscience)	2020-present
Max Seppo (Neuroscience)	2020-23
Kimberly Madhwani (Neuroscience)	2019-24
Jessica Scales (Molecular Pharmacology and Physiology)	2019-23
Simon Daste (Neuroscience)	2019-24
Doruk Savas (Neuroscience)	2018-24
Sinda Fekir (Neuroscience)	2018-24
Kathryn Russo (Neuroscience)	2018-21
Katie Yanagi (Neuroscience)	2017-21
Belinda Mahama (Neuroscience)	2018-20
Nate Snell (Neuroscience)	2015-20

Arjun Mathur (Molecular Biology, Cell Biology and Biochemistry)	2016-18
Jennifer Johnson (Molecular Biology, Cell Biology and Biochemistry)	2013-17
Altar Sorkac (Neuroscience)	2013-15
Heather Bennett (Molecular Biology, Cell Biology and Biochemistry)	2013-15

PROFESSIONAL MEMBERSHIPS

National Association of Biology Teachers	2023-present
Genetics Society of America	2015-present
International Behavioral and Neural Genetics Society	2015-present
Society for Neuroscience	2015-present
Research Society on Alcoholism	2015-present

PROFESSIONAL DEVELOPMENT

Teaching Advancement Courses and Workshops

<i>Decolonize STEM at Brown Reading Group</i>	
<i>Teaching Critical Thinking: Practical Wisdom</i>	2023
<i>Community as Rebellion: A syllabus for surviving academia as a woman of color</i>	2023
<i>Braiding Sweetgrass: Indigenous Wisdom, Scientific Knowledge ...</i>	2022
<i>Decolonizing Methodologies: Research and Indigenous Peoples</i>	2022
<i>Using Technology for Inclusive Teaching</i>	2021
<i>Incorporating writing into your course, Brown University</i>	2015
<i>Reflective Teaching Certificate I, Brown University</i>	2014-15
<i>Gender in the classroom, Brown University</i>	2014
<i>Classroom communication, Brown University</i>	2014
<i>Syllabus design, Brown University</i>	2013
<i>Feedback on teaching, Brown University</i>	2013
<i>Grading Strategies, Brown University</i>	2013
<i>Interactive Classrooms, Brown University</i>	2013
<i>Preparing Future Faculty Seminar Series, UCSF</i>	2009-10
<i>Publishing in Science Education Journals, UCSF</i>	2009
<i>Science & Health Education Partnership Teaching Workshop, UCSF</i>	2007-8

Mentoring Workshops

<i>NIH OITE Raising a Resilient Scientist</i>	2022
<i>DEI STEMM Faculty Workshop Series</i>	2020-21
<i>SfN Mitigating Implicit Bias: Tools for the Neuroscientist Webinar</i>	2018
<i>HHMI Gilliam Mentor Training:</i>	
<i>Improving communications with your mentee webinar</i>	2018
<i>Sharing mentoring challenges and solutions online workshop</i>	2018
<i>Culturally aware mentoring online module</i>	2018
<i>Culturally aware mentoring: Enhancing your skills 2-day workshop, HHMI</i>	2018
<i>The science of mentoring webinar</i>	2017
<i>Optimizing the practice of mentoring webinar</i>	2017
<i>Leveling the playing field by articulating expectations webinar</i>	2017
<i>Navigating implicit bias and optimizing mentor relationships 2 day workshop, Janelia</i>	2017
<i>Finding the mentoring you need, Brown University</i>	2013
<i>How to have a difficult conversation, Brown University</i>	2013
<i>Mentorship Faculty Roundtable, Brown University</i>	2013
<i>Science Education Program Mentoring Workshops, UCSF</i>	2009

Grant Writing Workshops

<i>Grant Finding at Brown and Beyond</i> , Brown University	2013
<i>Grant Writing Workshop</i> , Janelia Research Campus	2011
<i>Navigating the Grant</i> , Janelia Research Campus	2011
<i>Professional & Academic Success Skills: Funding your research</i> , UCSF	2010

RESEARCH COMMUNICATIONS

Invited seminars: International

<u>Chamalimaud Center</u> , CAJAL Course on Quantitative Approaches to Behaviour and Virtual Reality, Lisbon, Portugal	2024
<u>University of British Columbia</u> , Dept. Zoology, Vancouver, Canada	2024
<u>Ankara University Neuroscience Community</u> , Virtual	2024
<u>University of Alberta</u> , Department of Biology, Edmonton, Canada	2020
<u>University of St. Andrews</u> , School of Psychology and Neuroscience, Scotland UK	2019
<u>University of Tel Aviv</u> , Dept. Physiology and Pharmacology, Israel	2018
<u>Bar-Ilan University</u> , Min and Everard Goodman Faculty of Life Sciences, Israel	2018
<u>University of Sydney</u> , School of Life and Environmental Sciences, Australia	2018
<u>University of Sydney</u> , Charles Perkins Center, Australia	2018
<u>University of British Columbia</u> , Dept. Cell and Physiol. Sciences, Vancouver, Canada	2018
<u>Center of Advanced European Studies and Research</u> , Bonn, Germany	2016
<u>University of Cologne</u> , Flies on Drugs symposium, Cologne, Germany	2016

Invited seminars: National

<u>University of Washington</u> , Department of Physiology and Biophysics	2024
<u>Texas A&M</u> , Genes to Behavior; Time, Love and Memory Symposium, College Station, TX	2024
<u>University of Texas Southwestern</u> , Neuroscience Department	2023
<u>University of New Mexico</u> , Biology Days Keynote Speaker	2023
<u>Indiana University, Bloomington</u> , Gill Center for Biomedical Excellence	2023
<u>Virginia Tech</u> , Life Science Seminar Series	2023
<u>University of Puerto Rico</u> , Medical Campus, NIGMS-RISE Program	2023
<u>Vanderbilt University</u> , Department of Biological Sciences	2022
<u>University of Rhode Island</u> , Interdisciplinary Neuroscience Program Seminar Series	2021
<u>University of Virginia</u> , Biology Seminar Series	2021
<u>Baylor School of Medicine</u> , Neuroscience Seminar Series	2021
<u>University of New Mexico</u> , 'Meet a Scientist', Neurobiology course	2020
<u>University of Puerto Rico</u> , Rio Piedras, RISE Program	2020
<u>Wake Forest School of Medicine</u> , Physiology & Pharmacology Seminar Series	2019
<u>Stonehill College</u> , Biology Research Seminar Series	2019
<u>University of Indiana Bloomington</u> , Neuroscience Graduate Program	2019
<u>Brandeis University</u> , Neuroscience Graduate Program Retreat	2019
<u>Thomas Jefferson University</u> , Department of Neuroscience	2019
<u>Haverford College</u> , Department of Biology, Neuroscience Program	2019
<u>University of Massachusetts Amhurst</u> , Neuroscience and Behavior Program	2019
<u>Bryant University</u> , Women in Science Research Seminar	2019
<u>University of Oregon</u> , Institute of Neuroscience	2019
<u>University of Michigan</u> , Neuroscience Graduate Program Symposium	2018
<u>National Institutes of Health</u> , NICHD	2017
<u>University of New Hampshire</u> , Dept. Biological Sciences	2017
<u>University of West Virginia</u> , Dept. Biology	2017
<u>Marine Biological Laboratory</u> , Neurobiology Summer Course Kravitz Lecture	2017
<u>University of Wisconsin-Madison</u> , Dept. Genetics	2016

<u>Connecticut College</u> , Biology Student Advisory Board Invited Speaker	2016
<u>Syracuse University</u> , Dept. Biology	2016
<u>Brandeis University</u> , Dept. Biology	2014
<u>Yale University</u> , Dept. Physiology	2014
<u>Florida Atlantic University / Max-Planck</u> , Integrative Biology and Neuroscience	2013

Invited seminars: Internal (Brown University)

Carney Institute for Brain Science, Carney Conversations	2020
Center for Alcohol and Addiction Studies	2016
NSGP/GPP Graduate Program Retreat, Woodshole, MA	2015
Molecular Biology, Cell Biology and Biochemistry Retreat	2015
Advisory Council on Biology and Medicine	2015
Neurology Grand Rounds	2015
Brown University FlyClub	2014
Brown Institute for Brain Science Seminar	2013
Brown Institute for Brain Science, Bench-to-Bedside	2013
Brown Institute for Brain Science Symposium	2013
Dept. Molecular Biology, Cell Biology and Biochemistry	2013

International Conferences

<u>Winter Conference in Developmental Psychobiology</u> (short talk) Oahu, Hawaii, US	2024
<u>2023 Mushroom Body Meeting</u> , (Invited speaker) Gottingen, Germany	2023
<u>International Behaviour and Neural Genetics Society</u> , (Invited Speaker) Virtual	2022
<u>Insect Biotechnology Conference</u> , (Invited speaker) Virtual, via Ontario, Canada	2021
<u>2021 Mushroom Body Meeting</u> , (Invited speaker) Virtual, via Bonn, Germany	2021
<u>Winter Conference in Developmental Psychobiology</u> Providenciales, Turks & Caicos Islands (Invited speaker)	2017
<u>ISBRA/ESBRA World Congress on Alcohol and Alcoholism</u> , Berlin, Germany (Invited speaker)	2016
<u>The Notch Meeting</u> , Athens, Greece (Symposium speaker)	2015
<u>Genetic Approaches to Studying the Neurobiology of Learning and Memory</u> , Royal Society, London UK (Symposium speaker)	2014
<u>PKG Fest 2013</u> , Toronto ON (Invited speaker)	

National Conferences

<u>64th Annual Drosophila Research Conference</u> , Chicago, IL (Plenary Speaker)	2023
<u>Research Society on Alcoholism Annual Meeting</u> , (Session Chair and Speaker), Bellevue WA	2023
<u>Alcohol and the Nervous System Gordon Research Conference</u> , Galveston, TX (Invited Speaker)	2020
<u>J.B. Johnston Club Karger Workshop</u> , Chicago, IL (Invited Speaker)	2019
<u>Genetic and Molecular Mechanisms Underlying Complex Behavior</u> , Janelia Research Campus, Ashburn, VA, (Co-organizer and Speaker)	2019
<u>Research Society on Alcoholism Annual Meeting</u> , (Session Chair and Speaker)	2019
<u>Center for Learning and Memory Symposium</u> , University of Texas, Austin, TX Comparative Learning and Memory Session (Invited Speaker)	2019
<u>Columbia Workshop on Brain Circuits, Memory and Computation</u> , Columbia University, NY, (Invited Speaker)	2019
<u>Genetic Manipulation of Neural Activity V</u> , Janelia Research Campus, Ashburn, VA (Invited Speaker)	2018
<u>Rhode Island NIH IDeA Symposium</u> , Warren Alpert Medical School, Providence, RI	2018
<u>IBANGS Genes, Brain & Behavior Meeting</u> , Rochester, MN (Young Investigator Award)	2018
<u>Neuro-evo II: A comparative approach to cracking circuit function</u> , Janelia Research Campus, Ashburn, VA (Invited speaker)	2018
<u>Modulation of Neural Circuits and Behavior GRC</u> , Newry, ME (Invited keynote symposium speaker)	2017

<u>Neuro-evo: A comparative approach to cracking circuit function</u> Janelia Research Campus, Ashburn, VA (Invited speaker and symposium chair)	2016
<u>IBANGS Genes, Brain & Behavior Meeting</u> , Bar Harbor, ME (Invited featured speaker)	2016
<u>Neurobiology of Drosophila Conference</u> , CSHL, NY (Poster)	2015
<u>Motivational Circuits in Natural and Learned Behaviors</u> , Janelia Research Campus Ashburn, VA (Poster and poster teaser)	2015
<u>Structure and Function of the Insect Mushroom Body</u> , Janelia Research Campus Ashburn, VA (Invited speaker)	2014
<u>Alcohol in the Nervous System</u> Gordon Research Conference, Galveston, TX (Poster)	2014

Conferences Attended Without Presenting

<u>IBANGS Genes, Brain & Behavior Meeting</u> , London, ON	2024
<u>NIDA Genetics and Epigenetics Cross-Cutting Research Team Meeting</u> , Bethesda, MD	2024
<u>National Association of Biology Teachers Annual Conference</u> , Baltimore, MD	2023
<u>IBANGS Genes, Brain & Behavior Meeting</u> , Galway, Ireland	2023
<u>Society for Neuroscience Annual Meeting</u> , San Diego, CA	2022
<u>Smith Family Awards Program 20th Anniversary</u> , Boston, MA	2022
<u>Boston Area Drosophila Meeting</u> , Boston, MA	2022
<u>New England SACNAS</u> , Providence, RI	2022
<u>IBANGS Genes, Brain & Behavior Meeting</u> , Memphis, TN	2022
<u>Annual Drosophila Research Conference</u> , San Diego, CA	2022
<u>Society for Neuroscience Annual Meeting</u> , Virtual	2021
<u>Society for Neuroscience Global Connectome</u> , Virtual	2021
<u>IBANGS Genes, Brain & Behavior Meeting</u> , Virtual	2021
<u>Society for Neuroscience</u> , Chicago IL	2019
<u>CSHL Neurobiology of Drosophila</u>	2019
<u>IBANGS Genes, Brain & Behavior Meeting</u> , Edinburgh, Scotland	2019
<u>Sackler Winter Conference in Developmental Psychobiology</u> Providenciales, Turks & Caicos Islands	2019
<u>Society for Neuroscience</u> , San Diego, CA	2018
<u>NSGP/GPP Graduate Program Retreat</u> , Woodshole, MA	2018
<u>HHMI Gilliam Annual Fellows Meeting</u> , Janelia Research Campus, Ashburn, VA	2018
<u>HHMI Gilliam Mentor Workshop</u> , HHMI Headquarters, Bethesda, MD	2017
<u>Society for Neuroscience</u> , Washington, DC	2017
<u>CSHL Neurobiology of Drosophila</u> , CSHL, NY	2017
<u>Boston Area Drosophila Meeting</u> , UMass Boston, MA	2016
<u>Society for Neuroscience</u> , Washington, DC	2014

PERSONAL INTERESTS

My early life was spent in a remote Native American community in northern Saskatchewan and a remote coal-mining town in northern British Columbia. My motivation to understand the neural and molecular mechanisms of behavior stems from spending much of my childhood watching the behavior of insects, birds and other animals in an unfettered Boreal forest setting. I have extensive training in a number of martial arts including TaeKwonDo, Judo and kickboxing, and I enjoy spending as much time as possible with my spouse and two children hiking in the woods, walking on the beach and sailing on the Bay.