KIMBERLY MULLIGAN, PhD

Associate Professor of Biological Sciences

(916) 278-4064
kimberly.mulligan@csus.edu
www.mulliganlab.com
6000 J St, Sacramento, CA 95819-6077

EDUCATION

PhD 2008	**Stanford University**, Stanford, CA Developmental Biology
BS 1999	**University of California at San Diego**, La Jolla, CA Biochemistry and Cell Biology

POSITIONS & TRAINING

2020 - current	**Associate Professor of Biological Sciences:** California State University, Sacramento
2015 - 2020	**Assistant Professor of Biological Sciences:** California State University, Sacramento
2014	**Lecturer, Biological Sciences:** California State University, Sacramento
2011 - 2012	**NIH Ruth L. Kirschstein NRSA Postdoctoral Fellow:** University of California, San Francisco (UCSF) Department of Psychiatry, Center for Molecular Neurodevelopment Project: Functional analysis of Dixdc1, a candidate risk gene for neuropsychiatric illness, in mammalian embryonic neurodevelopment Advisor: Benjamin Cheyette, M.D., PhD
2008 - 2011	**Postdoctoral Research:** Stanford University Department of Developmental Biology Project: CIRM-funded initiative to optimize the expression and purification of Wnt proteins for liposome-mediated delivery to stem cell populations. Advisor: Roel Nusse, PhD
2001 - 2008	**Doctoral Research:** Stanford University Department of Developmental Biology Dissertation: Molecular characterization of Swim, a novel Wnt binding protein that promotes long-range signaling in the developing wing disc by maintaining Wingless solubility in the extracellular space. Advisor: Roel Nusse, PhD

COURSES TAUGHT

BIO227 | Developmental Biology & Regenerative Medicine
BIO 220 | Introduction to Scientific Inquiry
BIO 294A | Seminar in Molecular and Cellular Biology
BIO186A | Cell and Molecular Biology Seminar
BIO 127 | Developmental Biology
BIO121 | Molecular Cell Biology
BIO 100 | Introduction to Scientific Analysis
BIO2, Laboratory section | Introduction to Cells, Molecules and Genes

PEER-REVIEWED PUBLICATIONS

2022 Welch C and **Mulligan K** "Evaluating learning and memory in Drosophila melanogaster to study the neurodevelopmental impacts of toxicants" *Current protocols*, *2*(10), e576. https://doi.org/10.1002/cpz1.576

2022 Welch C and **Mulligan K** "Is bisphenol A a risk factor for neurodevelopmental disorders? What we've learned from developmental neurotoxicity studies in animal models" Invited Review. *International Journal of Molecular Sciences*, *23*(5), 2894. https://doi.org/10.3390/ijms23052894

2022 Niosi A, Vo NH, Sundar P, Welch C, Penn A, Yuldasheva Y, Alfareh A, Rausch K, Rukshar T, Cavanaugh J, Yadav P, Peterson S, Brown R, Hu A, Ardon-Castro A, Nguyen D, Crawford R, Lee W, Jensen MH, Morris E, and **Mulligan K.** "Kismet/CHD7/CHD8 affects gut biomechanics, the gut microbiome, and gut-microbiome-brain axis in *Drosophila melanogaster*" *PLoS One (Submitted); Preprint published on bioXRiv:* https://www.biorxiv.org/content/10.1101/2021.12.17.473216v1

2022 Welch C, Johnson E, Tupikova A, Anderson J, Tinsley B, Newman J, Widman E, Alfareh A, Davis A, Rodriguez L, Visger C, Miller-Schulze JP, Lee W, and **Mulligan K.** "Bisphenol A affects neurodevelopmental gene expression, cognitive function, and neuromuscular synaptic morphology in *Drosophila melanogaster" NeuroToxicology,* 89, Pages 67-78, ISSN 0161-813X, https://doi.org/10.1016/j.neuro.2022.01.006.

2021 Nguyen U, Tinsley B, Sen Y, Stein J, Palacios Y, Ceballos A, Welch C, Nzenkue K, Penn A, Murphy L, Leodones K, Casiquin J, Ivory I, Ghenta K, Danziger K, Widman E, Newman J, Triplehorn M, Hindi Z, **Mulligan K.** (2021) "Exposure to bisphenol A differentially impacts neurodevelopment and behavior in Drosophila melanogaster from

distinct genetic backgrounds" *NeuroToxicology,* 82, Pages 146-157,ISSN 0161-813X, doi.org/10.1016/j.neuro.2020.12.007

2020 Poston RG, Murphy LN, Rejepova A, Ghaninejad-Esfahani M, Joshua Segales J, **Mulligan K**, Saha RN "Specific ortho-hydroxylated brominated ethers inhibit neuronal MEK-ERK signaling and disrupt neurodevelopmental processes" *J. Biol. Chem.* jbc.RA119.011138. doi:10.1074/jbc.RA119.011138

2018 Martin PM, Stanley RE, Ross AP, Freitas AE, Moyer CE, Brumback AC, Iafrati J, Stapornwongkul KS, Dominguez S, Kivimae S, **Mulligan KA**, Pirooznia M, McCombie WR, Potash JB, Zandi PP, Purcell SM, Sanders SJ, Zuo Y, Sohal VS, Cheyette BNR "*DIXDC1* contributes to psychiatric susceptibility by regulating dendritic spine and glutamatergic synapse density via GSK3 and Wnt/β-catenin signaling" *Mol Psych,* Oct 18. doi: 10.1038

2017 **Mulligan KA** and Cheyette B "Neurodevelopmental Perspectives on Wnt Signaling in Psychiatry" Invited Review. *Mol Neuropsych,* Jan 13. (2) 219-246

2014 Dhamdhere GR, Fang MY, Jiang J, Lee K, Cheng D, Olveda RC, Liu, B, **Mulligan KA,** Carlson J, Ranson R, Weis W, Helms J. (2014) Drugging a Stem Cell Compartment Using Wnt3a Protein as a Therapeutic. *PLoS ONE* 9(1): e83650. https://doi.org/10.1371/journal.pone.0083650

2012 **Mulligan KA** and Cheyette B (2012) "Wnt signaling in vertebrate neural development and function" Invited Review. *J NeuroImmune Pharmacol.* Dec; 7(4) 774-87

2012 **Mulligan KA,** Fuerer C, Ching W, Willert K, Fish M, Nusse R (2012) "Secreted-Wingless interacting molecule (Swim) promotes long-range signaling by maintaining Wingless solubility" *Proc Natl Acad Sci USA.* Jan10;109 (2):370-7

2008 Nusse R, Fuerer C, Ching W, **Harnish K***, Logan C, Zeng A, ten Berge D, Kalani Y. (2008) "Wnt signaling and stem cell control" *Cold Spring Harb Symp Quant Biol.* Nov (73) 59-66. Review

2004 Johnson ML, **Harnish K***, Nusse R, Van Hul W (2004) "LRP5 and Wnt signaling: a union made for bone." *J Bone Mineral Research.* Nov;19 (11):1749-57. Review

***** Kimberly Harnish is my maiden name

BOOK CHAPTER

2016 **Mulligan K** and Cheyette B "Introduction to Wnt signaling" *Inborn Errors of Development*, 3rd Edition, Oxford University Press

AWARDS AND FELLOWSHIPS

Teaching/Pedagogy Awards

2023 – 2024	Pedagogy Enhancement Award (CSUS, Center for Teaching and Learning)
2018 – 2019	Outstanding Teaching Award (CSUS, College of Natural Sciences and Mathematics)
2018 – 2019	Pedagogy Enhancement Award (CSUS, Center for Teaching and Learning)
2017 – 2018	Pedagogy Enhancement Award (CSUS, Center for Teaching and Learning)
2016 – 2017	Promising Practices Course Redesign with Technology Award (CSU Chancellor's Office)

Mentorship Awards

2018 - 2019	SEE Outstanding Faculty Mentor Award (CSUS, Science Educational Equity Program Award)
2017 – 2018	Exceptional Assigned Time Committee Award (CSUS, Faculty Senate Subcommittee Award)

Programmatic Awards

2021 – 2026	California Institute of Regenerative Medicine (CIRM) EDUC2 Bridges Award ($2,946,500; CIRM Award); Role: PI

Research Awards

2019 – 2024	National Institutes of Health SCORE (SC2) Pilot Award ($426,000; NIH Award); Role: PI
2023 – 2024	G2E Award ($2,500; CSUS Award); Role: PI
2023 – 2024	Instructionally Related Activities Award ($6,600; CSUS, Associated Students Incorporated Award); Role: PI
2022 – 2023	Research and Creative Activities Award ($7,500; CSUS Award); Role: PI
2022 – 2023	G2E Award ($2,500; CSUS Award); Role: PI
2021 – 2022	Research and Creative Activities Award ($7,500; CSUS Award); Role: PI
2021 – 2022	G2E Award ($2,500; CSUS Award); Role: PI
2017 – 2018	CSUPERB New Investigator Research Award ($15,000; CSU-wide award) Role: co-PI
2020 – 2021	Instructionally Related Activities Award ($5,500; CSUS, Associated Students Incorporated Award); Role: PI
2020 – 2021	Research and Creative Activities Award ($7,500; CSUS Award); Role: co-PI
2020 – 2021	Goethe Research Award ($5,000; CSUS Award); Role: PI
2019 – 2020	Goethe Research Award ($5,000; CSUS Award); Role: PI
2019 – 2020	Instructionally Related Activities Award ($7,500; CSUS, Associated Students Incorporated Award); Role: PI
2019 – 2020	Sac State Retirees Faculty Development Award ($500; CSUS Award); Role: Awardee (not an aim-related award)

2019 – 2020	Research and Creative Activities Award ($7,500; CSUS Award); Role: PI
2018 – 2019	Instructionally Related Activities Award ($7,000; CSUS, Associated Students Incorporated Award); Role: PI
2018 – 2019	Research and Creative Activities Award ($7,500; CSUS Award); Role: PI
2018 – 2019	Goethe Research Award ($2,500; CSUS Award); Role: PI
2018	Faculty Research Incentive Grant ($2,500; CSUS Award)
2017 – 2018	CSUPERB New Investigator Research Award ($15,000; CSU-wide award); Role: PI
2017 – 2018	Research and Creative Activities Award ($7,500; CSUS Award); Role: PI
2017 – 2018	Instructionally Related Activities Award ($5,759; CSUS, Associated Students Incorporated Award); Role: PI
2017 – 2018	Goethe Research Award ($2,500; CSUS Award); Role: PI
2016 – 2017	CSUPERB New Investigator Research Award ($15,000; CSU-wide award)
2016 – 2017	CSUPERB Travel Award ($1,500; CSU-wide award); Role: PI
2015 – 2016	Provost's Research Incentive Funds Award ($5,000; CSUS Award)
2011 – 2012	NIH Ruth L. Kirschstein NRSA T32 Fellowship (postdoctoral training grant)
2002 – 2005	Stanford Graduate Fellowship (Stanford University doctoral training grant)

Other Awards

2023	Educational Advocacy Award (CSUS, Multicultural Center)
2022	Early Career Faculty Award for Research, Scholarship and Creative Activities (CSUS)
2021	Woman of Influence Award, faculty category (CSUS)
2021	Academic Sabbatical, *Determining the Neurodevelopmental Impacts of Bisphenol Exposure,* "Best of Proposals Submitted" awarded Feb 2021
2020	Awarded Early Tenure (CSUS)

SELECTED SEMINARS

2023	*What fruit flies can tell us about environmental risk factors for neurodevelopmental disorders.* CSU Long Beach Research Seminar Series
2021	*Getting STEM-FIT! STEM-Forum for Inclusive Teaching as a Model for Broad Dissemination of Inclusive Teaching Practices* Accelerating Systemic Change Network (ASCN), Transforming Institutions Conference

2021 *Use of an inclusive summative assessment increases deep learning and reduces test anxiety in an undergraduate molecular cell biology course.* 62nd Annual Drosophila Genetics Research Conference

2020 *Using fruit flies to identify autism risk factors.* STEM Scholars Lecture, Sacramento State (Archived lecture recording: https://www.csus.edu/college/natural-sciences-mathematics/center-science-math-success/stem-lecture-archive.html)

2019 *Using Drosophila melanogaster to identify chemicals that confer risk of neurodevelopmental disorders.* West Coast Regional Society for Developmental Biology Conference

2019 *Using Drosophila melanogaster to identify chemicals that confer risk of neurodevelopmental disorders.* CSUPERB 31st Annual Biotechnology Symposium.

2018 *Using the Common Fruit Fly to Study Autism.* Sacramento Area Science Project—Science in the River City (an educational partnership between University of California, Davis and Sacramento State University)

2017 *Developing Drosophila melanogaster as a Tool to Identify Factors that Confer Risk of Autism.* San Francisco State University Seminar Series.

RESEARCH MENTORING ACTIVITIES

Total number of research students mentored = 88
Current research students = 3 graduate students, 11 undergraduates
Undergraduate student alumni = 68
Graduate student lab alumni = 6
(Complete list of lab alumni: https://www.mulliganlab.com/people)

SELECTED STUDENT POSTERS & PRESENTATIONS

(Only recent external conferences are included here; students also present their research at three annual on-campus research symposiums)

2023 Tanveer A, Zaki Z, and Mulligan K "Bisphenol A differentially impacts neurodevelopment phenotypes in Drosophila melanogaster" **Northern California Society for Environmental Toxicology and Chemistry (NorCal SETAC) Meeting**

2023 Castañon Z, Tanveer A, and Mulligan K "Bisphenol A differentially impacts neurodevelopment phenotypes in Drosophila melanogaster" **Society for Developmental Biology West Coast Regional Meeting**

2023 Kaur R, Marsh C, and Mulligan K. "Kismet affects the gut microbiome in Drosophila melanogaster" **CSU Wide Research Competition**

2023 Castañon Z and Mulligan K. "Bisphenol A affects neural stem cell development in Drosophila" **West Coast Biological Sciences Undergraduate Research Conference**

2023 Elliessy S and Mulligan K. "Bisphenol A affects axon guidance in Drosophila" **West Coast Biological Sciences Undergraduate Research Conference**

2023 Affas H, Tanveer A and Mulligan K. "Kismet affects gastrointestinal phenotypes in Drosophila melanogaster" **West Coast Biological Sciences Undergraduate Research Conference**

2023 Kaur R, Marsh C, and Mulligan K. "Kismet affects the gut microbiome in Drosophila melanogaster" **West Coast Biological Sciences Undergraduate Research Conference**

2023 Tran C, Eby W, Morris E, Jensen M, and Mulligan K. "Kismet affects the gut-brain axis in Drosophila" **35th CSUPERB Annual Biotechnology Symposium**

2023 Taylor, J., Yull, J., and Mulligan K. "Bisphenol A affects neural stem cell development and courtship activity in Drosophila melanogaster" **35th CSUPERB Annual Biotechnology Symposium**

2022 Elliessy, S. and Mulligan K. "Developmental mechanisms of Kismet/CHD7/CHD8 in the gut-microbiome-brain axis of *Drosophila melanogaster*" **Society for Developmental Biology 81st Annual Meeting**

2022 Anderson J, Raghulan R, Lee W, and Mulligan K. "Bisphenol A affects neurodevelopmental gene expression, cognitive function, and synapse development in Drosophila melanogaster" **34th CSUPERB Annual Biotechnology Symposium**

2021 Penn A and Mulligan K. "Kismet/CHD7/CHD8 affects gut biomechanics, the gut microbiome, and gut-microbiome-brain axis in *Drosophila melanogaster*" **West Coast Regional Society for Developmental Biology Meeting (Oral presentation)**

2021 Penn A, Nguyen U, Tinsley B, Sen Y, Stein J, Palacios Y, Ceballos A, Welch C, Nzenkue K, Murphy L, Widman E, Newman J, and Mulligan K "Bisphenol A Exposure Differentially Impairs Neurodevelopmental

Phenotypes in Wild-Type *Drosophila* and in a *Drosophila* Model of Fragile X Syndrome" ***Annual Biomedical Research Conference for Minority Students (ABRCMS*)**

2021 Nzenkue K and Newman J "Bisphenol A differentially impacts neurodevelopment in *Drosophila melanogaster* from distinct genetic backgrounds" **33rd CSUPERB Annual Biotechnology Symposium**

2021 Niosi A, Vo N, Amin-Rahbar T, Welch C, Nguyen D, Lew A, Hu A, Crawford R, and Mulligan K "The autism-associated chromatin modifier, Chromodomain Helicase DNA Binding Protein 8, affects gastrointestinal phenotypes in *Drosophila melanogaster"* **33rd CSUPERB Annual Biotechnology Symposium**

2021 Tupikova A, Aldafari S, and Mulligan K "Measuring the Impact of Bisphenol A on Nonassociative Learning and Memory in *Drosophila melanogaster* Using the Endoparasitoid Wasp Predator-Response Paradigm" **62nd Annual Drosophila Genetics Research Conference**

2021 Penn A and Mulligan K "Bisphenol A differentially impacts neurodevelopment in *Drosophila melanogaster* from distinct genetic backgrounds" **62nd Annual *Drosophila* Research Conference (Oral presentation**

2021 Welch C, Hojeij N, Murphy L, Ghenta K, Hindi Z, Newman J, Nguyen K, Stryder B, Tinsley B, Triplehorn M, Widman E, and Mulligan K"Developmental exposure to the neurotoxicant polychlorinated biphenyl-95 elicits a synergistic gene by environment response in *fmr1*mutant *Drosophila melanogaster"* **62nd Annual *Drosophila* Research Conference**

2021 Penn A, Nguyen U, Tinsley B, Sen Y, Stein J, Palacios Y, Ceballos A, Welch C, Nzenkue K, Murphy L, Widman E, Newman J, and Mulligan K "Bisphenol A differentially impacts neurodevelopment in Drosophila melanogaster from distinct genetic backgrounds" **Stanford Undergraduate Research Conference**

2020 Penn A, Nguyen U, Tinsley B Murphy L, Palacios Y, Ceballos A, Welch C, Mulligan K "Bisphenol A Differentially Impacts Neurodevelopment in Drosophila melanogaster from Distinct Genetic Backgrounds" **2020 SACNAS National Diversity in STEM Virtual Conference**

2020 Larson H, Newman J, Widman E, Penn A, Witherspoon J, and Mulligan K "Developmental exposure to Bisphenol F impairs courtship behavior and causes developmental lethality" **61st Annual Drosophila Genetics Research Conference**

2020 Penn A, Nguyen U, Tinsley B, Sen Y, Stein J, Palacios Y, Ceballos A, Welch C, Nzenkue K, Murphy L, Widman E, Newman J, and Mulligan K

	"Bisphenol A differentially impacts neurodevelopment in *Drosophila melanogaster* from distinct genetic backgrounds" **61st Annual Drosophila Genetics Research Conference**
2020	Niosi A, Vo N, Amin-Rahbar T, Welch C, Nguyen D, Lew A, Hu A, Crawford R, and Mulligan K "The Autism-Associated Chromatin Modifier, Chromodomain Helicase DNA Binding Protein 8, Affects Gastrointestinal Phenotypes in *Drosophila melanogaster*" **Towards Targeted Therapies for Neurodevelopmental Disorders Virtual Symposium**
2020	Tupikova A, Nguyen U, Sen Y, Nzenkue K, Leodones K, Danzinger K, Newman J, Widman E, and Mulligan K "Impact of Bisphenol-A on Behavior in the Fragile X Syndrome Model of Drosophila" **Towards Targeted Therapies for Neurodevelopmental Disorders Virtual Symposium**
2019	Welch C, Ardon-Castro A, Hu A, Lew A, Murphy L, Nguyen D, and **Mulligan K**. "The Autism-Associated Chromatin Modifier, *kismet/Chromodomain Helicase DNA Binding Protein 8*, Affects Axon Guidance and Behavioral Phenotypes in *Drosophila melanogaste*r" **West Coast Regional Society for Developmental Biology Meeting**
2019	Murphy L, Chu D, Penn A, Hindi Z, Ghenta K, and **Mulligan K**. "Exposure to the Environmental Neurotoxicant Polychlorinated Biphenyl-95 Phenocopies a Common Autism Risk Gene in *Drosophila melanogaster*" **West Coast Regional Society for Developmental Biology Meeting**
2019	Tinsley B, Nguyen U, Casiquin J, Ceballos A, Chu D, Palacios Y, Sen Y, Welch C, and **Mulligan K**. "Developmental Exposure to Bisphenol-A Causes Neurodevelopmental Defects in *Drosophila melanogaster*" **32nd CSUPERB Annual Biotechnology Symposium**

STUDENT AWARDS

2023	Abuzar Tanveer and Zyla Castañon (undergraduates)—Second place poster presentation; West Coast Regional Society for Developmental Biology Meeting
2023	Lydia Bullo (undergraduate)—SURE Award; Sacramento State NSM research award
2023	Raman Kaur and Carson Marsh (undergraduates)—First place oral presentation; CSU Wide Research Competition
2023	Raman Kaur and Carson Marsh (undergraduates)—First place oral presentation; Sacramento State Research Competition

2022	Jermal Taylor (undergraduate) and Joseph Yull (graduate)—Best poster; NorCal SETAC Meeting
2022	Joseph Yull (graduate)— Second place oral presentation; CSU Research Competition
2022	Salma Elliessy (undergraduate)—CSUPERB Travel Award ($1,500)
2021	Aliyah Penn (undergraduate)—Best undergraduate talk; Awarded to one undergraduate presenter; West Coast Regional Society for Developmental Biology Meeting
2021	Seham Aldafari (undergraduate)—President's Medal; Awarded to one undergraduate; Sacramento State
2021	Angelo Niosi (graduate student)—Eden Award winner; Awarded to one master's student; 33rd CSUPERB Annual Biotechnology Symposium
2021	Aliyah Penn (undergraduate)—First place oral presentation; CSU Research Competition
2021	Aliyah Penn (undergraduate)— First place oral presentation; Sacramento State Research Competition
2021	Chloe Welch (graduate student)—Second place oral presentation; Sacramento State Research Competition
2020	Lillian Murphy (undergraduate)—President's Medal; Awarded to one undergraduate; Sacramento State
2020	Lillian Murphy (undergraduate)—National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP) Award; prestigious NSF fellowship awarded to select incoming graduate students across the US
2020	Kevin Nzenkue (undergraduate)—Summer Undergraduate Research Experience (SURE) Award; Sacramento State Natural Sciences and Mathematics (NSM) research award
2020	Nguyen (Henry) Vo (undergraduate)—SURE Award; Sacramento State NSM research award
2020	Brendan Tinsley (graduate student)—Eden Award finalist; Six finalists from across the CSU system; 32nd CSUPERB Annual Biotechnology Symposium
2020	Taylor Moore (undergraduate)—NIH RISE Award recipient
2019	Heather Larson (graduate student)—CSUPERB Travel Grant
2019	Kaitlin Danziger & Aliyah Penn (undergraduates)—Best poster in their category; West Coast Biological Sciences Undergraduate Research Conference (WBSURC)

2019	Chloe Welch (undergraduate)—Best oral presentation in her category; West Coast Biological Sciences Undergraduate Research Conference (WBSURC)
2019	Lillian Murphy (undergraduate)—Best undergraduate poster; Awarded to one undergraduate presenter; West Coast Regional Society for Developmental Biology Meeting
2019	Lillian Murphy (undergraduate)—Nagel Award winner; Awarded to one undergraduate across CSU system; 31st CSUPERB Annual Biotechnology Symposium
2019	Chloe Welch (undergraduate)—Nagel Award finalist; Six finalists from across the CSU system; 31st CSUPERB Annual Biotechnology Symposium
2019	Brendan Tinsley (graduate)—First place presenter; Sacramento State Research Competition
2019	Jacqueline Stein (undergraduate)—SURE Award; Sacramento State NSM research award
2019	Ishmeal Ivory Ford (undergraduate)—Louis Stokes Alliance for Minority Participation (LSAMP) Research Award recipient
2019	Alex Ceballos (undergraduate)— LSAMP Research Award recipient
2018	Any Ardon-Castro & Alain Hu (undergraduates)— First place poster; Sacramento State Research Competition
2018	Chloe Welch (undergraduates—Best oral presentation in her category; West Coast Biological Sciences Undergraduate Research Conference (WBSURC)
2018	Lillian Murphy (undergraduate)—Second place oral presentation in her category; West Coast Biological Sciences Undergraduate Research Conference (WBSURC)
2018	Lillian Murphy (undergraduate)—CSUPERB Travel Grant
2018	Semaj Hornbuckle & Yomira Palacios (undergraduate)—Louis Stokes Alliance for Minority Participation (LSAMP) Research Award recipients
2018	Daniel Chu (undergraduate)—SURE Award; Sacramento State NSM research award
2018	Chloe Welch (undergraduate)—Society for Developmental Biology Travel Award
2017	Brandon Trafton (undergraduate)—Second place presenter; CSU Research Competition

2017	Brandon Trafton (undergraduate)—First place presenter; Sacramento State Research Competition
2017	Kimberly Nguyen (undergraduate)—First place poster; Sacramento State Research Competition
2017	Darren Nguyen, Aliyah Penn, and Lillian Murphy (undergraduates)—NIH RISE Award recipients
2017	Chloe Welch (undergraduate)—SURE Award recipient; Sacramento State NSM research award
2017	Lillian Murphy (undergraduate)—SURE Award recipient; Sacramento State NSM research award
2017	Lillian Murphy (undergraduate)—CSUPERB Travel Award recipient

PROFESSIONAL LEARNING COMMUNITIES

2023 – 2024	Culturally Responsive Teaching at HSIs (CSUS): Facilitator
2023	Culturally Responsive STEM Teaching at HSIs (CSUS): Facilitator
2023	AIM: Accelerating Inclusive Mentoring (CSULB, National Institute of Health funded program): Participant
2022 - 2023	Inclusive STEM Teaching: Facilitator
2022	Culturally Responsive STEM Teaching at HSIs (ESCALA Educational Services): Participant
2021 – 2022	STEM Inclusive Teaching Project (National Science Foundation): Participant
2021 – 2022	STEM-FIT: Forum for Inclusive Teaching (CSUS, College of NSM): Facilitator
2019 – 2020	Designing for Equity and Student Success (CSUS, Center for Teaching and Learning): Participant
2018 - current	STEM Education Research Collaborative (CSUS, NSM faculty): Participant
2018 - 2019	Equity & Scholarship of Teaching and Learning: Demonstrating Success at Closing the Equity Gap (CSUS, Center for Teaching and Learning): Participant

2016 - 2017	Innovations for STEM Success (CSUS, Center for Teaching and Learning): Participant
2015 - 2016	Course Redesign with Technology (CSU Chancellor's Office): Participant

FACULTY SCHOLARSHIP COMMUNITIES

2018 - 2019	The Collaborative Organization for Research Productivity and Sustainability (CSUS)
2018 - 2019	Translational Health-Related Research: Connecting Basic Science to Clinical Practice (CSUS)
2017 - 2018	The Collaborative Organization for Research Productivity and Sustainability (CSUS)