

Tracie Delgado, Ph.D.

Associate Professor
Department of Biology
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Academic Positions:

- *Associate Professor of Biology* (tenure-track). Seattle Pacific University. 2019 – present.
- *Associate Professor of Biology* (tenured). Northwest University. 2017 – 2019.
- *Assistant Professor of Biology* (tenure-track). Northwest University. 2011 – 2017.

Education:

- *Ph.D. in Microbiology*. University of Washington. 2006-2011.
- B.S. in Microbiology, Immunology and Molecular Genetics. University of California – Los Angeles (UCLA). 2002-2006.

Teaching Experience:

Seattle Pacific University (Fall 2019-present)

- **Biology 3351** Microbiology (Lecture)
- **Biology 3325** Genetics (Lecture & Lab)
- **Biology 2101** General Biology (Lecture and Lab)
- **Biology 1101** Biology Fundamentals – Cancer Biology (Lecture)
- **Biology 4352** Cell Biology (Lecture & Lab)
- **Biology 3899** Scientific Literature
- **Biology 4978** Biological Research Proposal
- **Biology 4979** Biological Research

Northwest University (Fall 2011-Spring 2019)

- **SCIE 3403/3401** Cell Biology (Lecture and Lab)
- **SCIE 3143/3141** Genetics (Lecture and Lab)
- **SCIE 4423/4421** Biochemistry (Lecture and Lab)
- **SCIE 2053/2051** General Biology I (Lecture and Lab)
- **SCIE 2063/2061** General Biology II (Lecture and Lab)
- **SCIE 1103/1101** Principles of Biology (Lecture and Lab)
- **SCIE 3323/3321** Vertebrate Biology (Lecture and Lab)
- **SCIE 1873/1871** Integrated Science – online (Lecture and Lab)
- **SCIE 2452/3** Genetics and Society
- **SCIE 4923** Research Topics

Microbiology Instructor

- **Biology 260** (Microbiology lecture & lab). South Seattle College. Summer 2019
- **Biology 109** (The Biology of STDs). Seattle Central Community College. Spring 2011
- **Biology 260** (Microbiology lecture & lab). North Seattle Community College. Summer 2010

Teaching Assistant

- **Microbiology 431** (Molecular Techniques in Microbiology: Lab). UW. Winter 2008

- **Microbiology 302** (Intro to Microbiology: Lab). UW. Spring 2007

Seattle Pacific University Committees

- *Search Advocate Program* (Faculty Hiring – Diversity & Inclusion). Aug 2020 – present.
- *Faculty Development Committee*. Sep 2022 – present.

Research:

INSTITUTION	DEPARTMENT	FIELD	LABORATORY	DURATION
Seattle Pacific University	Biology	Virology	Principal Investigator	Sep 2019 – present
Northwest University	Biology	Virology	Principal Investigator	Sep 2015 – May 2019
University of Washington	Microbiology	Virology	Michael Lagunoff, PhD *PhD thesis lab*	Sep 2006 – Aug 2011
UCLA	Immunology	Cancer Biology	Manuel Penichet, MD PhD	Sep 2005 – June 2006
Harvard University	Microbiology	Virology	David Knipe, PhD	June 2005 – Aug 2005
UCLA	Immunology	Cancer Biology	Benjamin Bonavida, PhD	Sep 2004 – June 2005
UCLA	Molecular Biology	Plant Biology	Sioux Christensen, PhD	Sep 2002 – Aug 2004

Publications:

- Maggie Werner Washburne, JoAnn Trejo, Ruth Enid Zambrana, Maria Elena Zavala, Alice Martinic, Angelica Riestra, **Tracie Delgado**, Staci Edwards, Thelma Escobar, Denneal Jamison-McClung, Mariel Vazquez, Iset Vera, Michelle Guerra, Diana I. Marinez, Elma Gonzalez, Raymond L. Rodriguez. *Early Career Latinas in STEM: Challenges and Solutions*. (*in review*)
- Sarah A Clark, Angie Vazquez, Kelsey Furiya, Madeleine K Splattstoesser, Abdullah K Bashmail, Haleigh Schwartz, Makaiya Russell, Shun-Je Bhark, Osvaldo K Moreno, Morgan McGovern, Eric R Owsley, Timothy A Nelson, Erica L. Sanchez, and **Tracie Delgado**. *Rewiring of the host cell metabolome and lipidome during lytic gammaherpesvirus infection is essential for infectious virus production*. *J Virol*. 2023 May 16:e0050623. doi: 10.1128/jvi.00506-23. *Epub ahead of print*.
- Sarah A Clark, Angie Vazquez, Kelsey Furiya, Madeleine K Splattstoesser, Abdullah K Bashmail, Haleigh Schwartz, Makaiya Russell, Shun-Je Bhark, Osvaldo K Moreno, Morgan McGovern, Eric R Owsley, Timothy A Nelson, Erica L. Sanchez, and **Tracie Delgado**. *Rewiring of the host cell metabolome and lipidome during lytic gammaherpesvirus infection is essential for infectious virus production*. *BioRxiv* (pre-print) 2023.01.30.526357; doi: <https://doi.org/10.1101/2023.01.30.526357>
- Amanda L Verzosa, Lea A McGeever, Shun-Je Bhark, **Tracie Delgado**, Nicole Salazar and Erica L Sanchez. *Alphaherpesvirus Infection of Neuronal and Non-Neuronal Cells Elicits Specific Innate Immune Responses and Immune Evasion Mechanisms*. Review, *Front. Immunol*. 31 May 2021. 12:644664. doi: 10.3389/fimmu.2021.644664
- **Delgado T**, Bhark S-J, Donahue J. *Pandemic Teaching: Creating and teaching cell biology labs online during COVID-19*. *Biochem Mol Biol Educ*. 2021;49:32–37.

- Sanchez, E.L., Pulliam, T.H., Dimaio, T.A., Thalhoffer, A.B., **Delgado, T.** and Lagunoff, M. *Glycolysis, Glutaminolysis, and Fatty Acid Synthesis Are Required for Distinct Stages of Kaposi's Sarcoma-Associated Herpesvirus Lytic Replication.* J. of Virology, 2017 May; 91(10): e02237-16
- **Delgado, T.**, Sanchez, EL., Camarda, R and Lagunoff, M. *Global Metabolic Profiling of Infection by an Oncogenic Virus: KSHV Induces and Requires Lipogenesis for Survival of Latent Infection.* PLoS Pathog. 2012 Aug;8(8): e1002866
- **Delgado, T.**, Carroll, P.A, Punjabi, A.S., Margineantu, D., Hockenbery, D.M and Lagunoff, M. *Induction of the Warburg effect by Kaposi's Sarcoma Herpesvirus is required for the maintenance of latently infected endothelial cells.* Proc Natl Acad Sci U S A. 2010 Jun 8;107(23):10696-701
- Daniels, TR., Ng, PP., **Delgado, T.**, Lynch, MR., Schiller, G., Helguera, G., and Penichet, ML. *Conjugation of an anti-transferrin receptor IgG3-avidin fusion protein with biotinylated saporin results insignificant enhancement of its cytotoxicity against malignant hematopoietic cells.* Mol Cancer Ther. 2007 Nov;6(11):2995-3008
- Daniels, TR., **Delgado T.**, Helguera, G., Penichet, ML. *The transferrin receptor part II: Targeted delivery of therapeutic agents into cancer cells.* Clin Immunol. 2006 Nov;121(2):159-76. 2006 Aug 17. Review.
- Daniels, TR., **Delgado T.**, Rodriguez, JA., Helguera, G., Penichet, ML. *The transferrin receptor part I: Biology and targeting with cytotoxic antibodies for the treatment of cancer.* Clin Immunol. 2006 Nov;121(2):144-58. 2006 Aug 10. Review.

Grants:

Current Grants & Research Support

- “Targeting gammaherpesvirus production with metabolic inhibitors.” Seattle Pacific University Faculty Research and Scholarship Grant (FRSG). \$6,837. July 2023 – June 2024. Role = PI

Completed Research Support

- “Alteration by glucose metabolism by Murine Herpesvirus 68.” Seattle Pacific University Faculty Research and Scholarship Grant (FRSG). \$5,207. July 2022 – June 2023. Role = PI
- “Identification of Host Metabolism Pathways that are Altered During Viral Induced Cancers.” Scholarship & Christianity in OXFORD (SCIO) Supporting Structures Grant (funded by the Templeton Foundation, MJ Murdock Charitable Trust). \$14,000 research supplies + salary. Jan 2022 – Aug 2022. Role = PI & Visiting Faculty Fellow at the University of Washington.
- “Identification of clinically relevant metabolic inhibitors which can block viral production of cancer-causing herpesviruses.” Seattle Pacific University Faculty Research and Scholarship Grant (FRSG). \$5,837. July 2020 – Sep 2021. Role = PI
- SPU Faculty Start Up Funds. Sep 2019 – June 2022.
- “Alteration of host cell glucose and fat metabolism by Murine Herpesvirus 68.” Ray and Shirley Clark Faculty Grant – Northwest University. Award Period = August 2018-August 2019. \$3,720. Role = PI
- “Alteration of host cell glucose and lipid metabolism by Murine Herpesvirus 68.” Murdock College Research (MCR) Program for Natural Sciences grant. \$79,000. Aug 2015- Dec 2018. Role = PI
- Murdock Charitable Trust – Laboratory Equipment Grant. \$141,000 total. May 2013 – May 2015. Role = co-wrote this grant for research & teaching equipment at NU.

Research Students Mentored:

Undergraduates:

Ben Sheirbon	Seattle Pacific University	Sep 2023 – present
Lay Paw	Seattle Pacific University	Sep 2022 – present
Sarah Hartman	Seattle Pacific University	Sep 2022 – present

Makaiya Russell	Seattle Pacific University	June 2022 – Aug 2022
Shun-Je Bhark	Seattle Pacific University	Jan 2022 – Aug 2022
Madeleine Splattstoesser	Seattle Pacific University	Sep 2021 – June 2023
Abhi Kancherla	Seattle Pacific University	Sep 2021 – June 2022
Morgan McGovern	Seattle Pacific University	Sep 2021 – June 2022
Abdullah Bashmail	Seattle Pacific University	Sep 2020 – June 2022
Eric Owsley	Seattle Pacific University	Sep 2020 – June 2022
Samantha Kimmel	Seattle Pacific University	Sep 2020 – June 2021
Angie Vazquez	Seattle Pacific University	Sep 2019 – June 2021
Kelsey Furiya	Seattle Pacific University	Sep 2019 – June 2021
Josh Donahue	Seattle Pacific University	Sep 2019 – April 2020
Braden Garland	Northwest University	Aug 2018 – May 2019
Haleigh Schwartz	Northwest University	Aug 2018 – May 2019
Kameron Goetz	Northwest University	Aug 2018 – May 2019
Lidiya Gebre	Northwest University	Aug 2017 – May 2018
Anna Miller	Northwest University	Aug 2017 – May 2019
Kirsten Philpott	Northwest University	Aug 2017 – May 2018
Tyler Ptacek	Northwest University	June 2016 – May 2018
Katarina Swinney	Northwest University	June 2016 – May 2017
Sarah Clark	Northwest University	Aug 2015 – May 2017
Aubrey Massmann	Northwest University	Aug 2015 – May 2016
Glenwood Ray Clark	Northwest University	Aug 2015 – May 2016
Roman Camarda	University of Washington	June 2010 – Aug 2011
Frew Meshesha	University of Washington	Mar 2008 – Jan 2010

Graduate Rotation Students:

Erica Sanchez	University of Washington	Sep 2010 – Dec 2010
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Undergraduate Student Research Presentation: (* = presentation award)

- Madeleine Splattstoesser* & **Tracie Delgado**. *Murine Herpesvirus 68 (MHV-68) infection increases glucose metabolism to promote viral production*. 21st Annual Erickson Research Conference. Seattle Pacific University, Seattle, WA. May 5, 2023.
- Peter Nalivayko, Helena Nguyen, & **Tracie Delgado**. *Effects of Leflunomide on Murine Herpesvirus 68 (MHV-68) Lytic Production*. 21st Annual Erickson Research Conference. Seattle Pacific University, Seattle, WA. May 5, 2023.
- Lay Paw, Jasmine Vo, & **Tracie Delgado**. *α -Difluoromethylornithine (DFMO) as an FDA approved metabolic inhibitor in gammaherpesvirus replication*. 21st Annual Erickson Research Conference. Seattle Pacific University, Seattle, WA. May 5, 2023.
- Vanshika Sangal & **Tracie Delgado**. *Efficiency of Leflunomide on Inhibiting MHV-68 Viral Production*. 21st Annual Erickson Research Conference. Seattle Pacific University, Seattle, WA. May 5, 2023.
- Jewel Garcia & **Tracie Delgado**. *Wild or farmed? - Salmon mislabeling in sushi restaurants within Seattle-metropolitan area*. 21st Annual Erickson Research Conference. Seattle Pacific University, Seattle, WA. May 5, 2023.
- Hannah Buller, Eloisa Nguyen, & **Tracie Delgado**. *The analysis of salmon DNA as an indicator of mislabeling rates in Seattle sushi restaurants*. 21st Annual Erickson Research Conference. Seattle Pacific University, Seattle, WA. May 5, 2023.
- Lay Paw, Griffin Ovenell, & **Tracie Delgado**. *Salmon Mislabeling Rates at Sushi Restaurants in Seattle*. 21st Annual Erickson Research Conference. Seattle Pacific University, Seattle, WA. May 5, 2023.

- Lauryn Keith & **Tracie Delgado**. *Utilizing DNA Barcoding Analysis in Salmon Species to Identify Potential Mislabeling in Sushi Restaurants in Seattle*. 21st Annual Erickson Research Conference. Seattle Pacific University, Seattle, WA. May 5, 2023.
- Andre Marineau & **Tracie Delgado**. *Genomic analysis of a variety of Salmon samples from various sushi shops in Seattle*. 21st Annual Erickson Research Conference. Seattle Pacific University, Seattle, WA. May 5, 2023.
- Madeleine Splattstoesser, Kelsey Furiya, Morgan McGovern, Shun-Je Bhark, Makaiya Russell, Tim Nelson, & **Tracie Delgado**. *Gammaherpesvirus infection increases glucose metabolism to promote viral production*. Murdock College Science Research Conference. Vancouver, WA. Nov 11-12, 2022.
- Abdullah Bashmail & **Tracie Delgado**. *The Modulation of Lipogenesis During MHV-68 Lytic Infection of NIH/3T3 Mouse Cells*. 20th Annual Erickson Research Conference. Seattle Pacific University, Seattle, WA. May 6, 2022.
- Eric Owsley & **Tracie Delgado**. *Analysis of Acetyl-CoA Synthetase 1 (AceCS1) expression in MHV-68 infected cells*. 20th Annual Erickson Research Conference. Seattle Pacific University, Seattle, WA. May 6, 2022.
- Morgan McGovern & **Tracie Delgado**. *Glucose transporter expression of Murine Herpesvirus 68 infected NIH/3T3 cells*. 20th Annual Erickson Research Conference. Seattle Pacific University, Seattle, WA. May 6, 2022.
- Kelsey Furiya & **Tracie Delgado**. *The assessment of 2-deoxyglucose as an inhibitor of murine gamma herpesvirus-68 virus production in NIH-3T3 cells*. Murdock College Science Research Conference. Vancouver, WA. Nov 12-13, 2021.
- Kelsey Furiya* & **Tracie Delgado**. *The assessment of 2-deoxyglucose as an inhibitor of murine gamma herpesvirus-68 virus production in NIH-3T3 cells*. 19th Annual (virtual) Erickson Research Conference. Seattle Pacific University, Seattle, WA. May 7, 2021.
- Angie Vazquez & **Tracie Delgado**. *Murine Herpesvirus 68 (MHV-68) Infected Cells Require Glutamine for Effective Viral Production*. 19th Annual (virtual) Erickson Research Conference. Seattle Pacific University, Seattle, WA. May 7, 2021.
- Samantha Kimmel & **Tracie Delgado**. *Investigation of Glutaminase (GLS) expression in Murine Herpesvirus 68 infected NIH/3T3 cells*. 19th Annual (virtual) Erickson Research Conference. Seattle Pacific University, Seattle, WA. May 7, 2021.
- Angie Vazquez & **Tracie Delgado**. *Murine Herpesvirus 68 (MHV-68) Infected Cells Require Glutamine for Effective Viral Production*. Murdock College Science Research Conference. Spokane, WA. Nov 6-7, 2020.
- Angie Vazquez* & **Tracie Delgado**. *Murine Herpesvirus 68 (MHV-68) Infected Cells Require Glutamine for Effective Viral Production*. ABRCMS (virtual) National Conference. Nov 13, 2020.
- Anna Miller* & **Tracie Delgado**. *Orlistat, a Fatty Acid Synthesis Inhibitor, Blocks Herpesvirus Production*. Murdock College Science Research Conference. Vancouver, WA. Nov 2-3, 2018.
- Tyler Ptacek & **Tracie Delgado**. *Murine Herpesvirus-68 (MHV-68) Induces Viral Productivity Through the Induction of Aerobic Glycolysis*. Murdock Natural Science Research Conference. Spokane, WA. Nov 10-11, 2017.
- Tyler Ptacek* & **Tracie Delgado**. *Murine Herpesvirus-68 (MHV-68) Induces Viral Productivity Through the Induction of Aerobic Glycolysis*. SACNAS National Conference. Salt Lake City, UT. October 19-21, 2017.
- Sarah Clark & **Tracie Delgado**. *Alteration of Host Cell Lipid Metabolism by Murine Herpesvirus 68 (MHV-68)*. Murdock College Science Research Conference. Spokane, WA. Nov 4-5, 2016

- Sarah Clark* & **Tracie Delgado**. *Alteration of Host Cell Lipid Metabolism by Murine Herpesvirus 68 (MHV-68)*. SACNAS National Conference. Long Beach, CA. October 13-15, 2016.

Research Conference Abstracts & Presentations:

- **Tracie Delgado**. *"Mentoring strategies which promote diversity and inclusion in the sciences" (research and DEI talk / opening keynote)*. National Association of Biology Teachers (NABT) national conference. Indianapolis, IN. Nov 10, 2022.
- **Tracie Delgado**. *"Combating Viruses" – Repurposing anti-metabolism drugs as a broad and universal form of viral therapy*. SACNAS national conference". San Juan, PR. Oct 28, 2022.
- **Tracie Delgado**, Sarah Clark, Kelsey Furiya, Angie Vazquez, Madeleine Splattstoesser, Haleigh Schwartz, Abdullah Bashmail, Tim Nelson, Makaiya Russell, Shun-Je Bhark, Eric Owsley, Samantha Kimmel, Morgan McGovern, and Tyler Ptacek. *Alteration of host cell metabolism by murine herpesvirus 68 (MHV-68) is required for infectious viral production*. American Society for Virology international conference. Madison, WI. July 16-20, 2022.
- **Tracie Delgado**. "Silver & Gold – Blending Lessons Learned From Pandemic-driven Virtual Education with the Gold Standard of In-person Education" (*speaker*). American Society for Cell Biology (Virtual) conference 2021. Dec 1, 2021.
- **Tracie Delgado**, Roman Camarda and Michael Lagunoff. *KSHV infection of endothelial cells induces de novo lipogenesis to maintain latency*. 36th Annual International Herpesvirus Workshop. Gdansk, Poland. July 24-28, 2011.
- **Tracie Delgado**, Patrick A. Carroll, Almira S. Punjabi and Michael Lagunoff. *Induction of the Warburg effect by Kaposi's Sarcoma Herpesvirus (KSHV)*. SACNAS National Conference. Anaheim, CA. September 30 - October 3, 2010.
- **Tracie Delgado**, Patrick A. Carroll, Almira S. Punjabi and Michael Lagunoff. *Induction of Glycolysis by KSHV is required for the maintenance of latently infected endothelial cells*. KSHV 12th International Workshop Annual Meeting at Charleston, S.C. Sep 13-16, 2009
- **Tracie Delgado**, Patrick A. Carroll, and Michael Lagunoff. *KSHV induction of aerobic glycolysis by Hypoxia-induced factor*. SACNAS National Conference. Salt Lake City, Utah. October 9-12, 2008.
- Tracy R. Daniels, Patrick P. Ng, **Tracie Delgado**, Gustavo Helguera, Gary Schiller, and Manuel L. Penichet. *Mechanism of cytotoxicity elicited by an anti-transferrin receptor IgG3-avidin complexed with biotinylated saporin*. 98th AACR (American Association of Cancer Research) Annual Meeting at Los Angeles, CA. April 14-16, 2007.
- Tracy Daniels, Patrick P. Ng, **Tracie Delgado**, Gustavo Helguera, Gary J. Schiller, Benjamin Bonavida and Manuel L. Penichet. *Conjugation of an anti-TfR IgG3-avidin fusion protein with biotinylated saporin results in significant enhancement of its cytotoxicity against malignant hematopoietic cells*. 97th AACR (American Association of Cancer Research) Annual Meeting at Washington, D.C. April 1-5, 2006.
- **Tracie Delgado**, Martha Simpson-Holley and David M. Knipe. *Redistribution of the Cdc14B Nucleoskeleton Protein During Herpes Simplex Virus-1 (HSV-1) Infection*. ABRCMS National Conference. Atlanta, GA. Nov. 2-5, 2005.
- **Tracie Delgado**, Hicham Zegzouti and Sioux Christensen. *Characterization of the Curly Q mutant of Arabidopsis thaliana*. SACNAS National Conference. Austin, Texas. October 21-29, 2004.

Invited Research Talks / Seminars:

- **Tracie Delgado.** “*Targeting cellular metabolism as a form of viral therapy*”. San Francisco State University (Biology department seminar invited speaker). San Francisco, CA. Oct 13, 2022.
- Tracie Delgado. “*Rewiring of the host cell metabolome and lipidome during lytic gammaherpesvirus infection is essential for infectious virus production.*” American Society for Virology Educators Seminar. Virtual. March 15, 2023.

Professional Societies

- **Society for Advancement of Chicanos and Native Americans in the Sciences (SACNAS).** National Society Member. Sep 2004-present
- *The Leadership Alliance* Research Society. National Society Member. Aug 2005-life
- *Achievement Rewards for College Scientist (ARCS).* National Society Member. National Society Member. 2006-2009.

Professional Development Fellowships:

- *Leadership Alliance Grant Writing Coaching Group.* July 2019 – Jan 2020
- *Quality Education for Minorities (QEM) Faculty Early Career (CAREER) Development Proposal Development Workshop.* Baltimore MD. March 14-15, 2014
- *SACNAS Leadership Institute.* Stanford University. July 22-26, 2013

Graduate School Fellowships:

- *The Helen Whiteley Graduate Fellowship.* UW Microbiology Department. 09/10-08/11
Awarded by UW Microbiology department to the top graduating PhD student
- *Huckabay Teaching Fellowship.* UW. 09/10-08/11
- *Cellular and Molecular Biology Training Grant.* UW / National Institutes of Health. 07/08-06/11
- *NSF Pre-Doctoral Fellowship (honorable mention).* National Science Foundation. 2009
- *Viral Oncology Training Grant.* UW / National Institutes of Health. 07/07-06/08
- *Ford Diversity Fellowship (honorable mention).* The National Academies. 2008 & 2009
- *Achievement Rewards for College Scientists Fellowship.* UW. 09/06-06/09
- *UW GO-MAP Fellowship.* UW. 09/06-06/07

Undergraduate Fellowships:

- *Minority Access to Research Careers (MARC) Fellowship.* UCLA / NIH. 07/04-06/06
- *Summer Honors Undergraduate Research Program Fellowship.* Harvard. 06/05-08/05
- *CARE Research Fellowship.* UCLA. 06/03-06/04

Professional Seminars / Talks / Presentations

= focus is to help increase the number of underrepresented minorities in the sciences

- “*Targeting cellular metabolism as a form of viral therapy*” (San Francisco State University Biology department invited research seminar speaker). San Francisco State University, 13 Oct 2022.
- “Careers in Science” (panel speaker). University of Washington undergraduate research program. Aug 3, 2022. **#**

- “Alteration of Host Cell Metabolism by Murine Herpesvirus 68 is Required for Viral Production.” (SPU Faculty Research Speaker). SPU. May 11, 2022.
- “Alteration of Host Cell Metabolism by Murine Herpesvirus 68 is Required for Viral Production.” (SPU Women in Science Seminar Speaker). SPU. April 22, 2022.
- “Vocation at SPU” (new faculty seminar panel speaker). SPU (virtual). Jan 27, 2022.
- “Faculty Fellows Discussion Panel: Research Questions, Faith Journeys, and Current Plans” (panel speaker). SPU. Nov 8, 2021.
- Meet a Microbiologist (speaker) – Riverwood Elementary (4th grade class). Nov 12, 2021. Cordova, TN (virtual).
- “SPU Biology Professors: COVID-19 and Vaccines” (panel speaker). SPU YouTube Video. May 21, 2021. <https://www.youtube.com/watch?v=tIS-hyT-yfg>
- “Alteration of Host Cell Metabolism by Murine Herpesvirus 68 is Required for Viral Production.” (SPU Science Capstone Seminar Speaker). SPU. April 26, 2021.
- “Race and Pedagogy Community of Practice” (speaker). SPU (virtual). April 6, 2021.
- “Faith and Bioethics” (invited speaker on AFlame Ministry Show episode 120) – hosted by Pastor Kathleen Panning. Dec 1st, 2020 (online) <https://www.iheart.com/podcast/966-aflame-ministry-28893899/episode/aflame-ministry-show-120-faith-and-74600224/>
- “Careers in Science Panel” (speaker). Kapi’olani Community College & Hutch United. Nov 19, 2020.
- “STEM Mamas: Balancing Motherhood and a Career in STEM.” (Organizer, Moderator and Speaker). SACNAS National Conference. October 12-24, 2020 (virtual). #
- SACNAS National Conference 2020-- “1-on-1 Mentoring with a SACNAS Leader.” October 12-24, 2020 (virtual). #
- “First Generation Student to Professor: My Academic and Personal Story” (invited speaker) – Hosted by Dr. Judith C. Perez UNIV100 class and California State University, Fullerton’s Educational Opportunity Program (EOP). Sep 1, 2020 (online) #
- “First Generation College Student to Associate Professor of Biology with Tracie Delgado, PhD” (invited speaker on the podcast WHEN SCIENCE SPEAKS) – hosted by Mark Bayer. Posted Aug 25, 2020 (online) <https://whensciencespeaks.com/podcast/first-generation-college-student-to-associate-professor-of-biology-with-tracie-delgado-phd/>
- “Faith and Science: Compatible or in Conflict?” (invited speaker on AFlame Ministry Show episode 109) – hosted by Pastor Kathleen Panning. Aug 25, 2020 (online) https://www.spreaker.com/user/bbm_global_network/aflame-ministry-show-109?fbclid=IwAR09n998tjio_aUrRMQVtLjIM--zayBOHixzzKqDPfIQQhiWnwuWTxi67tY
- “Annual Undergraduate Research Program Career Panel” (panel speaker) – hosted by the University of Washington. Seattle, WA (online). Aug 12, 2020.
- “Research in the Era of COVID-19” (panel speaker) - hosted by Leadership Alliance. Providence, RI (online). June 30, 2020. #
- *Virtual Scientific Career Panel (panel speaker)*. University of Washington’s SACNAS student chapter. Seattle, WA (online). May 12, 2020. #
- “Faculty Careers: An Introduction to Academia” (panel speaker). 13th Annual National Institutes of Health Career Symposium. Bethesda, Maryland (online). May 8, 2020. <https://www.youtube.com/watch?v=LUIAGB9A4RA&list=PLxnpU66KqCch-XPdq52TtCpKuACYmH8v-&index=32&t=1488s>
- “10 Question About Viruses”: COVID19 presentation for Green Dot students at Locke High School. Los Angeles, CA (online). May 4, 2020. #
- *Career Panel (speaker)* – hosted by Dr. Ximena Cid. California State Northridge Physics class. Northridge, CA (online). 9 April 2020. #
- “Q&A Interview with Dr. Delgado on COVID-19: hosted by Maricres Valdez Castro (Miss Universe Philippines - Muntinlupa City 2020). Muntinlupa City (Philippines) - online. March 25, 2020.

- “Open Life Church Pastor Jadon Haynes Interview with Dr. Tracie Delgado about COVID-19” (presentation on COVID-19, science and faith). Seattle, WA (online). March 13, 2020. https://www.youtube.com/watch?v=PzSAyfefB2g&feature=youtu.be&fbclid=IwAR1lbHFcH6hYyAx1xS9rzioM7Rsl8DIOsGvab_iOLEpwoGEmuxmzvniBVJA
- University of Washington Cell & Molecular Training Grant Retreat Speaker: “Science Career Panel.” May 24, 2019. Seattle, WA.
- SACNAS National Conference 2019-- “1-on-1 Mentoring with a SACNAS Leader.” October 31 - Nov 2, 2019. Honolulu, HI #
- BioCORE Scholars (Invited Speaker) – Seattle Pacific University. April 16, 2019. #
- SACNAS National Conference 2018-- “1-on-1 Mentoring with a SACNAS Leader.” October 10-13, 2018. San Antonio, TX. #
- “SACNAS National Conference 2017—Motivational Speaker. Oct 18-21, 2017. Salt Lake City, UT. # <https://www.youtube.com/watch?v=1K8qsYpV4b0&t=231s>
- SACNAS National Conference 2017-- Moderator and Speaker in session titled “Insights to Success.” October 18-21, 2017. Salt Lake City, UT. #
- SACNAS National Conference 2017-- “1-on-1 Mentoring with a SACNAS Leader.” October 18-21, 2017. Salt Lake City, UT. #
- “Descubra” Meet the Science Expert (Speaker). Frost Science Museum – “Celebrating Women in Science. May 13, 2017. Miami, FL. #
- March for Science – Seattle (Speaker – Diversity in Science in STEM). April 22, 2017. Seattle, WA. # <https://www.youtube.com/watch?v=tYnyB71YKl4>
- SACNAS National Conference 2016-- Session speaker: “Tips for Early Success in a New Mentor-Mentee Relationship: Expectations, Communication and Working Toward Independence.” October 13-15, 2016. Long Beach, CA. #
- SACNAS National Conference 2016-- “1-on-1 Mentoring with a SACNAS Leader.” October 13-15, 2016. Long Beach, CA. #
- SACNAS National Conference 2015-- Session speaker: “Tips for Early Success in a New Mentor-Mentee Relationship: Expectations, Communication and Working Toward Independence.” October 29, 2015. Washington DC. #
- NU Board Spouses Dinner – “The Future of Antiviral Therapy.” May 7, 2015. Northwest University.
- TEDx Talk: “Shift: The Future of Antiviral Therapy.” April 11, 2015. Kirkland Performing Arts Center. Kirkland, WA. <https://www.youtube.com/watch?v=tr-Ev7wYXbY>
- Faith and Humanities Conference--Keynote Speaker: “A Scientist Journey to Discovering the Beauty of God’s Evolving Creation.” March 27, 2015. Northwest University.
- University of Washington SACNAS Chapter End of Year Celebration-- Keynote Speaker: “My SACNAS Journey.” June 5, 2013. University of Washington. Seattle, WA. #
- SACNAS National Conference 2012-- Session speaker: “Institutionalizing Diversity Programs: Challenges and Opportunities for Colleges and Universities.” October 11-13, 2012. Seattle Convention Center, Seattle, WA. #
- SACNAS National Conference 2012-- Speaker and Breakout session leader: “Chapter Best Practices.” October 11-13, 2012. Seattle Convention Center, Seattle, WA. #

Service & Science Outreach

= focus is to help increase the number of underrepresented minorities in the sciences

- SACNAS National Conference 2019 (Research Poster Judge). October 31 - Nov 2, 2019. Honolulu, HI #
- 27th Annual Murdock College Science Research Conference (Research Poster Judge). Vancouver, WA. Nov 2-3, 2018.

- SACNAS National Conference 2018 (Research Poster Judge). Oct 11-13, 2018. San Antonio, TX. #
- 26th Annual Murdock College Science Research Conference (Research Poster Judge). Spokane, WA. Nov 10-11, 2017.
- SACNAS National Conference 2017 (Research Poster Judge). Oct 19-21, 2017. Salt Lake City, UT. #
- 25th Annual Murdock College Science Research Conference (Research Poster Judge). Spokane, WA. Nov 4-5, 2016.
- SACNAS National Conference 2016 (Research Poster Judge). Oct 13-15, 2016. Long Beach, CA. #
- SACNAS National Conference 2015 (Research Poster Judge). Oct 29-31, 2015. Washington, D.C. #
- Advancement via Individual Determination (AVID) Outreach—Middle School Visit and Presentation. May 21, 2015. Chinook Middle School. #
- Advancement via Individual Determination (AVID) Outreach – Northwest University Professor Panel (College Tips & Expectations). March 25, 2015. Northwest University. #
- “Faculty Positions at Different Types of Institutions” (speaker and panel member). Hosted by the University of Washington graduate school. April 21, 2015. University of Washington. Seattle, WA.
- SACNAS National Conference 2014 (Research Poster Judge). Oct 16-18, 2014. Los Angeles, CA. #
- ABRCMS National Conference 2013 (Research Poster Judge). Nov 13-16, 2013. Nashville, TN. #
- UW 9th annual Career Symposium for Graduate Student & Postdocs (career path speaker). Jan 30th, 2013. University of Washington. Seattle, WA
- UW “Society for Advancement of Chicanos and Native Americans” (SACNAS) Chapter #
 - **Position:** SACNAS Student Chapter President (Fall 2009-Summer 2010)
 - **Position:** SACNAS Student Chapter Vice-President (Fall 2008-Summer 2009)
 - **Position:** SACNAS Student Chapter Treasurer (Fall 2007-Summer 2008)
 - **Founding Member:** Spring 2007-Summer 2011
- SACNAS National Conference 2012 (Research Poster Judge). Oct 11-13, 2012. Seattle, WA. #
- Toppenish High School Outreach (panel speaker). May 4th, 2012. Seattle BioMed. #
- Faculty Careers at Teaching Focused Universities (panel speaker). April 5th, 2012. University of Washington.
- Clear Sky Native Youth Outreach. April 6, 2010. Seattle, WA. #
- COSEE (Center for Ocean Sciences Education Excellence) Broader Impacts Diversity Session – strategies to promote more diverse participation in the sciences (co-chair & speaker). Jan 5, 2010. Seattle, WA. #
- Nathan Hale High School Global Health Summit (science proposal judge). November 12, 2009. Seattle, WA.
- Royal City High School Science Outreach. April 23, 2009. Royal City, WA. #
- Seattle Center High School (research project judge). April 20, 2009. Seattle WA.
- St. Paul Middle School (science outreach and lab activity). Jan 8, 2009. Seattle, WA.
- University of Washington Bioscience Experience (high school science outreach event speaker). July 14, 2008. University of Washington. #
- UCLA Minority Summer Research Program (panel speaker). July 2007. UCLA. #
- 50th Annual Washington Science and Engineering Fair (judge of middle school and high school science projects). Mar 30th, 2007. Olympic College: Bremerton, WA.
- Women In Science & Engineering (WISE) Conference at the University of Washington (panel speaker). Feb 3rd, 2007. University of Washington
- Undergraduate Research Symposium (panel speaker). Nov 7th, 2006. University of Washington: Sea/Tac Marriot Hotel.

- *Esperanza en Educacion (Hope in Education) evento (high school panel speaker)*. Oct 16th, 2006. University of Washington. #
- *Elizabeth Middle School Research Presentation*. May 2006. Elizabeth Middle School: Bell, CA. #
- *UCLA Academic Advancement Program (APP) Scholars Day (mentored minority student campus visit)*. April 8th, 2006. UCLA. #
- *Raza Woman's Conference: "Beyond the College Degree: Mujeres Demystifying the Graduate School Experience" (speaker)*. Mar 4th, 2006. UCLA #
- *Program for Excellence in Education and Research in the Sciences (PEERS) Research Fair (panel speaker)*. Jan 31st, 2006. UCLA. #