**Luis F. Matos, Ph.D.**

**Associate Professor**

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**EDUCATION**

2012 Ph.D. Entomology, University of Florida (UF), Gainesville, FL. Title: *Drosophila* and the rhabdovirus sigma: a model system for the evolution of virulence following interspecific host shifts. Advisors: Dr. James Maruniak (Virology) and Dr. Marta L. Wayne (Evolutionary genetics)

2002 M.S. Entomology, Washington State University (WSU), Pullman, WA. Title: Development and evaluation of artificial diets for rearing the purple loosestrife root weevil (*Hylobius transversovittatus* Goeze). Advisor: Dr. John Brown

1999 B.S. Biology, minor in Chemistry, and concentrations in Genetics and Zoology, California St. U. Stanislaus, Turlock, CA.

**EMPLOYMENT**

2019-present Associate Professor, Dept. of Biology, Eastern Washington University (EWU), Cheney, WA

2014-2019 Assistant Professor, Dept. of Biology, Eastern Washington University (EWU), Cheney, WA

2014 Jan-July Visiting Assistant Prof., Dept. of Biology, EWU, Cheney, WA

2008-2014 Adjunct Faculty and part-time instructor, Dept. of Biology, EWU, Cheney, WA

2006-2008 Fellow with Science Partners in Inquiry-based Collaborative Education (SPICE) Program

2005-2006 Adjunct Faculty, Dept. Natural Sciences, Santa Fe Community College (SFCC), Gainesville, FL

2002-2006 Alumni Fellow, UF

2001-2002 Technical Research Assistant, Department of Entomology, WSU. Mentor: Dr. Laura Corley

2001-2002 Teaching Assistant, School of Biological Sciences, WSU

1999-2002 Research Assistant, Department of Entomology, WSU. Mentor: Dr. John Brown

**TEACHING ASSIGNMENTS**

2020-present Virology (Biol 432; 2 quarter)

2018-present Molecular Techniques (currently BIOL385, 2 quarters)

2018-present Graduate Seminars (BIOL 500 and 501, 3 quarters each)

2017-present Human Genetics (BIOL 396, 2 quarters)

2017 Bioinformatics Capstone (BIOL 490)

2016-Present Molecular Biotechnology Capstone (BIOL 490A, 3 quarters)

2016-Present Molecular Biotechnology Lab (BIOL 488, 3 quarters)

2016-Present Molecular Biotechnology I (BIOL 485, 3 quarters)

2015-Present Molecular Biotechnology (BIOL 489, 2 quarters)

2015 Molecular Biology Capstone (BIOL 490)

2015-present Current Topics in Molecular Biology (BIOL 513; 4 quarters)

2014-Present Directed Study/Internship (BIOL 399, 495, 499; 599, 600: 164 credit hours)

2012-Present Molecular Biology (BIOL 438; 5 quarters)

2011-2016 Human Genetics (BIOL 496, 4 quarters)

2010-2016 Vertebrate Zoology (BIOL 304; 8 quarters)

2009-Present Fundamentals of Genetics (BIOL 310; 30 quarters)

2009-2010 Molecular Biotechnology (BIOL 485, 486; 2 quarters each)

2009-2014 Molecular Biotechnology Lab (BIOL 488, 3 quarters; 489, 3 quarters)

2009-present Biological Investigations (BIOL 270; 5 quarters)

2008 Research Design and Literature (BIOL 510)

2005-2006 Introductory Biology for Non-Majors (BSC 1001), team-taught with J. Joyner-Matos

**TEACHING ASSISTANTSHIPS**

2004 Insect Physiology (ENY6401C), Entomology and Nematology Dept., UF

2001-2002 Introductory Biology for Non-Majors (BIOL 102 & 105), School of Biological Sciences, WSU

**GRANTS AND SCHOLARSHIPS**

2023 Faculty Grant for Research and Creative Works to Luis F. Matos. Endolysin protein as a topical treatment for Acne Vulgaris. **($10,000).**

2020 Developing expression system for specific allergenic proteins with commercial value: a collaboration with EWU Biotech and Jubilant Hollister Stier. **($10,000).** Disrupted due to COVID.

2020 Faculty Grant for Research and Creative Works to Luis F. Matos. Developing a probiotic that produces the anti-inflammatory “miracle enzyme” serratiopeptidase **($10,000).** Delayed to 2021 due to COVID.

2020 Resolving wasp venom supply issues and exploring organoid development in a paper wasp (*Polistes* sp.) Luis Matos / EWU Biology. Submitted to Jubilant Hollister Stier. $359,509.58

Review Pending due to COVID.

2018 EWU Foundation Start Something Big Grant (Category 2 grant): Flipping CSTEM: A workshop to develop a community of practice and incentivize using the flipped classroom model in more CSTEM courses. **($19,452.55)**

2018 EWU Foundation Start Something Big Grant (Category 1 mini grant): EWU Biotech 2017-2018: Enhancing the student experience in the 2018 Biotech curriculum through original research. **($2,500)**

2018-19 Faculty Grant for Research and Creative Works to Luis F. Matos. Fitness and genetics of a host shift using Drosophila and the Drosophila C virus. **($9,954)**

2016 EWU President: Equipping the Swartz Biotechnology Lab in the Department of Biology at EWU. **($45,000)**

2016 EWU Foundation Start Something Big Grant (mini-grant): EWU Biotech 2015-2016: Synthesis and analysis of Pinene in *Chlamydomonas reinhardtii* by the students in the Biotechnology Option in the Dept. of Biology. **($2,000)**

2016-2017 Faculty Grant for Research and Creative Works to Luis F. Matos. The fitness cost and metabolomics of a viral host shift in the *Drosophila* model. **($10,000**)

2015-2016 Faculty Grant for Research and Creative Works to Luis F. Matos. Sequencing and annotation of the *Diachasmimorpha longicaudata* entomopoxvirus genome. **($10,000**)

2009 -2016 National Institutes of Health RO1 Grant GM083192 (M.L. Wayne, P.I.; $1.2 million). "Sigma virus in *Drosophila*: a model system for the evolution of virulence." This work is a collaboration between Marta Wayne (UF), Ben Bolker (McMaster Univ.), Bob Holt (UF), and Luis F. Matos (EWU). Subcontract to LFM - Experimental evolution: artificial host shifts with *D. melanogaster* and *D. simulans* (**$185,668 to LFM**; 2009-2016)

2008 EPI-ICBR grants (UF), “SOLiD sequencing estimate of within-host variation for an RNA virus.” M.L. Wayne, CLAS (UF) co-PIs: Benjamin Bolker, CLAS; Luis F. Matos, CALS **($12,200**)

2006 P.O. Lawrence Insect Physiology and Biochemistry Scholarship, Department of Entomology and Nematology, UF **($1000**)

2006 Travel grant from the Office of the Vice President for Research to attend and present at annual meeting of the Entomological Society of America **($300**)

2006 UF Graduate Student Council travel grant to present at the annual meeting of the Entomological Society of America (ESA) **($250**)

2005 UF Graduate Student Council travel grant to present at the annual meeting of the ESA **($250**)

2004 Sigma Xi Grants in Aid of Research. Title: How is *Diachasmimorpha longicaudata* Entomopoxvirus (DlEPV) acquired by wasp offspring? **($500**)

2001 Graduate Student Travel Award, to defray travel costs to the Annual Meeting of the Pacific Branch of the ESA **($246**)

2001 Howard and Hermina Halgarth Scholarship, WSU, Department of Entomology, to defray lodging costs of annual Meeting of the Pacific Branch of the ESA **($200**)

2000 Entomological Society of America Congress Travel Award, to attend the XXI International Congress of Entomology, Iguassu Falls, Brazil **($1088**)

2000 Howard and Hermina Halgarth Scholarship, to defray lodging costs to attend the XXI International Congress of Entomology, Iguassu Falls, Brazil **($568**)

**MATERIALS GARNERED FOR EWU BIOLOGY DEPARTMENT**

2021 Procured donations of materials and supplies from ALK-Abello, Post Falls, ID. **(~ $1500).**

2019 Procured donations of chemicals and supplies from Jubilant Hollister-Stier (JHS), Spokane, WA **(~$500)**

2018 Procured donations of chemicals and supplies from Jubilant Hollister-Stier (JHS), Spokane, WA **(~$500)**

2017 Procured donations of chemicals and supplies from JHS, Spokane, WA **(~ $1,500)**

2016 Procured the donation of chemicals from JHS, Spokane, WA **(~ $1,500)**

2016 Procured the donation of chemicals from GenPrime, Spokane, WA **(>$1,000)**

2015 Procured the donation of chemicals from JHS, Spokane, WA **(~ $2,500)**

2014 Procured the donation of chemicals from JHS, Spokane, WA **(~ $2,500)**

2014 Procured the donation of equipment and supplies from Signature Genomics, Spokane WA **(> $5,000)**

2013 Procured the donation of equipment and supplies from Amgen, Seattle WA **(~ $3,000)**

2013 Procured the donation of equipment and supplies from Signature Genomics, Spokane WA **(~$8,000)**

2013 Procured donations of live rock and animals (for aquarium) from private donors (total value estimated to be **$2,000**)

2013 Procured the donation of chemicals from JHS, Spokane, WA (~ **$2,000**)

2012 EWU Dept. of Biology Indirect Costs Committee grant for purchase of a -80°C freezer **($5,040**)

2012 EWU CSHE Dean's Office grant toward the purchase of a new -80°C freezer (**$1,500**)

2012 EWU Grant's Office grant toward the purchase of a new -80°C freezer (**$1,000**)

2012 Procured donations of aquarium equipment and live animals from private donors **(~ $2,000)**

2012 Procured the donation of chemicals from Signature Genomics, Spokane, WA **(~ $2,000)**

2012 Procured the donation of chemicals from JHS **(~ $3,000)**

2011 Procured donations of aquarium equipment, saltwater live rock and animals from private donors to setup a marine aquarium in the Biology Department **(~ $10,000)**

2011 Procured the donation of chemicals from Signature Genomics **(~ $1,000)**

2011 Procured the donation of chemicals from Hollister-Stier **(~ $2,000)**

2011 Procured the donation of consumable supplies and equipment from Amgen Corporation, Seattle, WA **(valued at ~ $300,000)**

2010 Procured the donation of chemicals and equipment from Hollister-Stier **(~ $3,000)**

2009 Procured the donation of supplies and equipment from Amgen **(~ $20,000)**

2009 EWU Foundation Grant to support BIOL 488/489 class work **($750)**

**PUBLICATIONS** (**\***Indicates undergraduate student author)

Idsardi, R. **Matos**, L.F., Friedly\*, I., Macinelli\*, J. and N. Usay\*. Outcomes of Early Adopters Implementing the Flipped Classroom Approach in Undergraduate STEM Courses. J. Sci. Educ. Tech. In press.

Lopatto, D., Anne Rosenwald, …, L.F. **Matos**, …James Youngblom, Brian Yowler, Leming Zhou, Janie Brennan, Jeremy Buhler, Wilson Leung, Sarah Elgin, and Laura Reed (2022). Student attitudes contribute to the effectiveness of a genomics CURE. Journal of Microbiology and Biology Education. Vol. 23, No. 2.

Lopatto, D., Rosenwald, A.G., DiAngelo, J.R., … **Matos**, L.F., … and Elgin, S.C.R. (2020). Facilitating Growth through Frustration: Using Genomics Research in a Course-based Undergraduate Research Experience: Formative Frustration Is an Element of CUREs. Journal of Microbiology and Biology Education. 21:21.1.6

Elgin, S.C.R., Hauser, C., Holzen, T.M., Jones, C., Kleinschmit, A., & Leatherman, J and the Genomics Education Partnership (contributing authors: L.F. **Matos** and others) (2017). The GEP: Crowd-Sourcing Big Data Analysis with Undergraduates. *Trends in Genetics.* 33:81-85.

Piontkivska, H., **Matos**, L.F., Paul, S. Scharfenberg, B., Farmerie, W., Miyamoto, M., and Wayne, M.L. (2016). Role of host-driven mutagenesis in determining genome evolution in sigma virus (DMelSV; Rhabdoviridae) in *Drosophila melanogaster*. Genome Biology and Evolution. 8:2952-2963.

Piontkivska, H., Paul, S., Scharfenber, B., Wayne, M.L., **Matos**, L.F., Farmerie, W., and Miyamoto, M. Role of ADAR in determining the substitution pattern in sigma virus (Rhabdoviridae) in *Drosophila melanogaster*. (2014). *Computational Advances in Bio and Medical Sciences (ICCABS), 2014 IEEE 4th International Conference.*

Brusini, J., Wang\*, Y., **Matos**, L.F., Sylvester\*, L-S., Bolker, B., and Wayne, M.L. (2013). Virulence evolution in a host-parasite system in the absence of viral evolution. *Evolutionary Ecology Research*. 15:883-901.

Rittschoff, C.C., Pattanaik, S.**\***, Johnson, L.**\***, **Matos**, L.F., Brusini, J., and Wayne, M.L. (2013) Sigma virus and male reproductive success in *Drosophila melanogaster*. *Behavioral Ecology and Sociobiology* 67:529-540.

Lawrence, P.O., **Matos**, L.F. (2005) Transmission of the *Diachasmimorpha longicaudata* rhabdovirus (DlRhV) to wasp offspring: an ultrastructural analysis. *Journal of Insect Physiology*. 51:235-241.

Pszczolkowski M.A., **Matos**, L.F., Zahand, A.**\***, and Brown, J.J. (2002) Effect of monosodium glutamate on codling moth larvae fed apple leaves. *Entomologia Experimentalis et Applicata*. 103:91-98.

Pszczolkowski M.A., **Matos**, L.F., Brown, R., and Brown, J.J. (2002) Feeding and development of codling moth, *Cydia pomonella*, (L.) (Lepidoptera: Tortricidae) larvae on apple leaves. *Annals of Entomological Society of the U*SA. 95:603-60.

Pszczolkowski M.A., **Matos**, L.F., Bushman, S.M.**\***, and Brown, J.J. (2001) Effects of glutamate receptor agonists and antagonists on feeding by economically important insect pest. *Acta Neurobiologiae Experimentalis*. 61: 237.

Pszczolkowski M.A., **Matos**, L.F., Bushman, S.M.**\***, and Brown, J.J. (2001) Feeding enhancements for insecticide targeting neonate lepidopteran larvae. In: 6th International Symposium on Adjuvants for Agrochemicals ISAA 2001. Ed. Hans de Ruiter. Amsterdam, The Netherlands. pp. 420-424.

**PRESENTATIONS** (**\***Indicates undergraduate student author)

2022 Understanding virulence following host shifts using the Drosophila model and an RNA virus. Luis. F. **Matos**. Nov. 4-5, 2022 NW ASM Branch Meeting. Gonzaga University. Spokane, WA.

2020 Phylogenetic analysis of six transcription-associated proteins from the *Diachasmimorpha longicaudata* entomopoxvirus. Luis F. **Matos**, Daniel J. Carulli, and Erin M. Carulli. National Conference of the Entomological Society of America. Virtual Conference due to COVID.

2020 Biotech research at a regional comprehensive university: EWU Department of Biology. Life Science Innovation North West Conference. July 16-17. Seattle, WA. Presented Online Due to COVID-19. Luis F. **Matos**

2020 Virulence of Drosophila C virus increased on the novel host during a host shift in *Drosophila* species. EWU Research and Creative Works Symposium. 2020. Katie Johnson and Luis F. **Matos**

2020 Endolysins as a novel acne medication - Social media campaign and Competition Composition. EWU Research and Creative Works Symposium. 2020. Samual J. Hatfield and Rochelle M. Hatfield: Advised by Luis F. **Matos**

2019 Flipping Genetics: Increasing Success of Under-Performing Students. AACU Transforming STEM Higher Education Conference. November 7-9, 2019. Sheraton Grand, Chicago, IL. Luis F. **Matos** and Robert Idsardi.

2019 Faculty perceptions of the flipped classroom approach. NSTA/Society for College Science Teachers Conference. April 2019 in Boston, MA. Robert Idsardi, Ivy Tietsort**\***, Jennifer Macinelli**\*** and Luis F. **Matos**.

2018 EWU research and creative works symposium. Metabolomic Characterization of a Host Shift by an RNA Virus. Emily Hendrix and Luis F. **Matos**.

2018 EWU research and creative works symposium. Assessing Succinic Semialdehyde Dehydrogenase *Drosophila melanogaster* Mutants. Seth Buller**\***, Peyton Owen**\*** and Luis F. **Matos**.

2018 EWU research and creative works symposium. Effect of Serratiopeptidase Supplement on *Drosophila melanogaster*. Jessica Demyen**\***, Maria Paz Carrasco Ojeda**\***, Christina Ramelow**\***, and Luis F. **Matos**.

2018 EWU research and creative works symposium. Pinene Synthesis in Algae. Nicholas Bray**\***, Taylor Mauzy**\***, Randy Quinn**\***, and Luis F. **Matos**.

2018 EWU research and creative works symposium. Towards Developing A Colorful Approach to Prostate Cancer Screening. Alexis Johnson**\***, Sherry Napier**\***, Peyton Owen**\*** and Luis **Matos**

2018 EWU research and creative works symposium. Genomic Analysis of the *Diachasmimorpha longicaudata* entomopoxvirus. Steven Smith and Luis F. **Matos**

2018 Annual meeting of the Entomological Society of America; Vancouver, BC, Canada. Characterizing the Early Stages of a Novel Host Shift Using Host Fitness and Metabolomics. Luis F. **Matos**, Emily Hendrix and Joanna Joyner-Matos.

2018 32nd National Conference on Undergraduate Research (NCUR), Eliminating the bacteria endosymbiont Wolbachia from Drosophila lines using a novel antibiotic delivery method Corrie J. Bechtold**\***, Mackenzie M. McPhee**\***, Emily K. Hendrix and Luis F. **Matos**.

2017 31st National Conference on Undergraduate Research (NCUR), Memphis, TN. Comparative analysis of *Diachasmimorpha longicaudata entomopoxvirus* early transcription factor genes sets DlEPV apart within the *Entomopoxvirinae* Jennifer Wilcox\*, Steven Smith and L.F. **Matos**.

2017 31st National Conference on Undergraduate Research (NCUR), Memphis, TN. Bioinformatics Analysis of the D1R and H3L Homologs from the *Diachasmimorpha longicaudata entomopoxvirus.* Mitchell Anderson\*, Steven Smith and L.F. **Matos**.

2016 Virulence fails to increase following artificial host shift to sigma virus to Drosophila simulans. Poster Presentation at the International Congress of Entomology. Orlando Florida. September 25-30, 2016. Luis F. **Matos**, Jeremie Brusini and Marta L. Wayne.

2016 Zika Virus History, Biology, Transmission, and Current Status. EWU Biology Seminar presentation. October 14, 2016. L. F. **Matos**.

2015 A classroom undergraduate research experience (CURE) for all biology students. Luis F. **Matos** and Joanna J. Matos. Poster presentation with peer-reviewed abstract. Poster presentation at the American Association of Colleges and Universities 2015 Network for Academic Renewal STEM Conference in Seattle, WA (Nov. 12-14).

2015 29th National Conference on Undergraduate Research (NCUR), Cheney, WA. Detecting *Rickettsia* sp. at Turnbull National Wildlife Refuge Using Molecular Tools. H. Johnson\* and L.F. **Matos**.

2014 28th National Conference on Undergraduate Research (NCUR), Lexington, KY. Analysis of the DNA Polymerase gene in the Diachasmimorpha longicaudata entomopoxvirus suggests classification in Gammaentomopoxvirus. B. Talbot\*, S. Milliron\*, and L.F. **Matos**.

2014 28th National Conference on Undergraduate Research (NCUR), Lexington, KY. Analysis of the nucleoside triphosphate phosphohydrolase I gene from the *Diachasmimorpha longicaudata* entomopoxvirus. S. Milliron\*, B. Talbot\*, and L.F. **Matos**.

2014 28th National Conference on Undergraduate Research (NCUR), Lexington, KY. The Genome of Sigma Rhabdovirus Infecting *Drosophila melanogaster* in Washington State. M. Woods\*, E. Herrera\*, B. Connelly\*, and L.F. **Matos**.

2013 Hosts, parasites, and the evolutionary genetics of host-shifts. Invited Talk presented to the Gonzaga's Department of Biology "Biology Research Seminar". L. F. **Matos**.

2013 27th National Conference on Undergraduate Research (NCUR), La Crosse, WI. A rhabdovirus is not attenuated to its native host following a host-shift. A.E. Medrano**\*** and L.F. **Matos**.

2013 27th NCUR, La Crosse, WI. Evolution of virulence following a host shift in the *Drosophila* model. A.E. Gray**\***, M. Hooper**\***, D. Harris**\***, and L.F. **Matos**.

2013 27th NCUR, La Crosse, WI. Sequencing and Analysis of viral genomes passaged in *Drosophila* lineages. B. Vance**\*** and L.F. **Matos**.

2012 EEID-PI, Berkeley, CA. Evolution of virulence following a host shift in the *Drosophila* model. L.F. **Matos**, M. Hooper**\***, D. Harris**\***, J. Brusini, and M.L. Wayne.

2011 Meeting of the Society for the Study of Evolution. Norman, OK. Artificially host shifted rhabdovirus sigma exhibits increased infectivity and virulence. L.F. Matos, M. Hooper**\***, and M.L. Wayne.

2011 EEID-PI, Madison, WI. Artificially host shifted rhabdovirus sigma exhibits increased infectivity and virulence. L.F. Matos, M. Hooper**\***, and M.L. Wayne.

2011 25th NCUR, Ithaca, NY. The sigma virus of *Drosophila melanogaster* demonstrates decreased infectivity when artificially shifted into *D. simulans*. M. Hooper**\***, M.L. Wayne and L.F. Matos.

2011 25th NCUR, Ithaca, NY. Argon gas is a suitable substitute for ice as an anesthetic of *Drosophila melanogaster* infected with the Sigma virus. C.R. Davies**\*** and L.F. Matos.

2011 25th NCUR, Ithaca, NY. The sigma virus of *Drosophila melanogaster* demonstrates decreased infectivity when artificially shifted into *D. simulans.* M.J. Hooper**\***, M.L. Wayne, and L.F. Matos.

2010 Annual Meeting of the Society for Molecular Biology and Evolution Lyon, France. NextGen sequencing reveals within and between-host variation in sigma virus (Rhabdoviridae). Marta L. Wayne (U. Florida), W. G. Farmerie (U. Florida), L. A. Higgins (JMP Statistical Software), B. M. Bolker (U. Florida), L. Matos (EWU).

2009 24th NCUR, Missoula, MT. Sigma virus RNA is present in *Drosophila melanogaster* adults lacking the characteristic sigma-induced CO2 sensitivity. C.D. LaRue**\***, A. Millward**\***, and L.F. Matos.

2006 Annual Meeting of the Entomological Society of America, Indianapolis, IN. Entomopoxvirus DNA replication and protein expression in the poison gland of developing *Diachasmimorpha longicaudata*pupae. L.F. Matos and P.O. Lawrence.

2005 Annual Meeting of the Entomological Society of America, Fort Lauderdale, Fl. *Diachasmimorpha longicaudata* Entomopoxvirus (DlEPV) DNA is present in eggs of the parasitic wasp *D. longicaudata*. L.F. Matos and P.O. Lawrence.

2005 Annual Meeting of the Florida Entomological Society, Fort Meyer, FL. Relationship of the *Diachasmimorpha longicaudata* Entomopoxvirus to Wasp Ova. L.F. Matos and P.O. Lawrence.

2003 Annual Meeting of the Entomological Society of America, Cincinnati, OH. *Diachasmimorpha longicaudata*Entomopoxvirus (DlEPV) proteins and DNA are present in *D. longicaudata* ovaries and nuclear DNA, respectively. L.F. Matos and P.O. Lawrence.

2001 Annual Meeting of the Pacific Branch of the Entomological Society of America (PBESA), Park City, UT. Development and evaluation of artificial diets for rearing *Hylobius transversovittatus* (Goeze). L.F. Matos and J.J. Brown.

2000 XXI International Congress of Entomology, Iguassu Falls, Brazil. Development and evaluation of artificial diets for rearing *Hylobius transversovittatus* (Goeze)” L.F. Matos and J.J. Brown.

2000 PBESA Annual Meeting, Costa Mesa, CA. Development and evaluation of artificial diets for rearing *Hylobius transversovittatus* (Goeze)” L.F. Matos and J.J. Brown.

**AWARDS AND HONORS**

2016 Chair’s Excellence Award for Teaching. Department of Biology. College of Science Technology Engineering and Math. Eastern Washington University.

2002-2006 UF Alumni Fellowship

2001 WSU President’s Award for Leadership and Service

2001 Student of the Year (MS) Department of Entomology, WSU

**GRADUATE STUDENT COMMITTEES**

Kathryn Collins (2021-present)

Veronica Albrecht (Second member, 2018-2020)

Taylor Mauzy (**Chair**; 2018-2021)

Katie Johnson (**Chair**; 2018-2020)

Justin Donahue (Second member, 2017-2019)

Steven Smith (**Chair**; 2016-2018)

Emily Hendrix (**Chair**; 2016-2018)

Adam Giles (Second member; 2015-2017)

Robert Shadix (Second member; 2015-2017)

Chelan Rogers (Second member; 2014-2016)

Amy Gray (Second member; 2014-2016)

**PROFESSIONAL AND SCHOLARLY ACTIVITY**

2022 Judged Washington State Science Fair

2021 Judged Washington State Science Fair

2018 Judged the poster competition at the joint annual meeting of the Entomological Societies of America, Canada, and British Columbia.

2017 Judged the poster competition at the Murdock Conference (Nov. 2017)

2017 Reviewed a research grant for the Murdock Foundation.

2016 Reviewed National Science Foundation Graduate Research Fellowship Program applications (27) and participated in the NSF panel discussions (Jan 2017).

2015 Reviewed a research grant for the Murdock Foundation.

2015 Reviewed National Science Foundation Graduate Research Fellowship Program applications (30) and will be participating in the NSF panel discussions next week (Jan 2016).

2015 Reviewed abstracts for the 2015 National Committee on Undergraduate Research conference.

2014 Reviewed applications for the STEMposium Conference held in Spokane, WA in 2014.

**UNIVERSITY AND COMMUNITY SERVICE**

2022 ICST2- Search committee chair: staff position in Biology Department

2021 ICST3- Search committee chair: staff position in Biology Department

2021-Present Faculty Advisor for the Pre-PA Club

2020-Present Faculty Advisor for the Biological Student Organizations at EWU

2019 Presented at First Year Seminar course (invited by C. Oliveri)

2018-2019 Member of the “Learning Team” as part of the EWU strategic plan implementation

2018-present Senator representing Biology in the faculty organization at EWU

2018 Prepared and delivered electrophoresis activity to Magori FYE course at EWU

2017-present Member: Advisory Board for the Institute of Science and Technology (North Central HS, Spokane, WA)

2017 Chair of search committee for Assistant Professor in Biology Education/EWU Biology Department

2017-2018 Chair of the EWU Graduate Affairs Council

2017-2018 Member of the EWU Medals and Awards committee (as GAC chair)

2017 (Winter) Member of the CSTEM Associate Dean search committee

2016-2017 Co-Chair of the EWU Graduate Affairs Council

2016-Present Policy Development and Review Committee (PDRC; within GAC)

2016-Present Interdisciplinary Program Review Committee (IPRC; within GAC) member

2015 Participated in Science Olympiad (March 7, 2015) in Spokane, WA and ran an activity called "Disease Detectives-Division B" for twenty student teams

2015 (Fall) Member of the EWU Biology Physiologist faculty search committee

2014 (Fall)-present Member of the Policy Development and Review Committee (PDRC)

2014 (Fall)-present Member of the EWU Graduate Affairs Council (GAC)

2014 (Fall) Member of the EWU Biology Microbiologist search committee

2013-Present Member, EWU Biology Department Scholarship Committee

2013-2014 McNair Scholar Mentor to Jennifer Graham

2013-Present One to two times per year I facilitate a tour for EWU Biology students to tour the MLS program facilities at Sacred Heart Medical Center and the Molecular and Cytogenetics Diagnostics facilities at PAML in Spokane, WA.

2012 McNair Scholar Mentor to Vera Pikalova, now a graduate student in the biology program at the University of Northern Colorado

2012 Procured donations and spearheaded the setup of a saltwater tank in EWU’s biology department

2012 Prepared and administered Science Olympiad activity in epidemiology

2012 Judge, Inland Northwest High School Science Symposium

2011 Presentation on owl biology at the EWU Children’s Center

2010 Prepared and administered Science Olympiad activity in epidemiology

2009 Forensic Entomology presentation/activity for Washington State University Young Women’s Summer Science Camp (July 15, 2009)

2008-2011 Member, EWU Biology Department Indirect Costs Committee

2007 Mentored Shantel Johnson, UF Student Science Training Program (high school student)

2007 Mentored Ashis Patel, UF Student Science Training Program (high school student)

2006, 2007 Judge, Alachua Region Science Fair

2004-2006 Seminar Committee, Department of Entomology and Nematology, UF

2004 Graduate student representative to faculty search committee, UF

2001-2002 Guide for tours of the WSU Electron Microscopy Center

2000-2001 Graduate student representative to the faculty, WSU

2000-2001 President, Entomology Club, WSU

1999-2000 Vice-President, Entomology Club, WSU

**MEMBERSHIP IN PROFESSIONAL SOCIETIES**

Genetics Society of America

Society for the Study of Evolution

Sigma Xi Research Society

Entomological Society of America

**STUDENT MENTORED IN RESEARCH**

2021-Present Lily Frye

2021-Present Bethehem Yohannes

2019-2020 Emma Oaks, Applying to Med School

2019-2021 Daniel Carulli, Now PhD student at WSU

2019-2021 Erin Smith, Now PhD student at WSU

2019-2019 Ammasie Allred, Now at WSU

2018-2021 Eleanor Gorkovchencko, Applying to Med School

2018-2020 Gaige Felix, now a student at WSU Pharmacy

2018-2020 Connor Beard, now at Gonzaga Law School

2018-2019 Sherry Peak, now working in Biotech in the Tri-Cities area of WA

2018-2019 Katie Johnson, MS. now PhD student at the University of Georgia

2018-2021 Taylor Mauzy, MS. Now working as R&D Scientist at Unicep

2018-2019 Maria Paz Carrasco Ojeda, Now working in Chile

2017-2019 Justin Donahue, MS Now working as wildlife biologist for Washington State

2017-2019 Seth Buller, Now in Medical School at Loma Linda.

2017-2019 Peyton Owen, applying for Med School

2017-2019 Jose Osuna, applying for Med School

2017-2019 Kyanna Cusick, now medical student at WSU

2017-2019 Cory Bechtold, applying for Vet School

2016-2017 Mackenzie Macphee, now medical student in Yakima, WA

2016-2016 Nii Lamptey

2016-2016 Rose Toenniessen; now Veterinarian Assistant in Lakewood, ID.

2015-2017 Mitchell Anderson, now a manager at Cinder in Spokane, WA.

2015-2018 Naomi Matson

2015-2016 Emily Hendrix, MS in Biology from EWU. Now PhD. Student in Texas..

2015-2017 Jenifer Wilcox, now in PhD program at University of Idaho.

2015-2016 Brooke Brosvik, now a stay at home mom

2015-2016 Gabrielle "Molly" Fisher, now PhD student at Florida State University

2014-2015 Heather Frady, MS in Entomology: Notre Dame; now at the Field Museum, IL.

2014-2015 Samuel Rogers, PA: Oregon Health Sciences University: now PA in Portland, OR.

2014-2014 Jordan Arakawa, now in medical school at Oregon Health Sciences University.

2014-2015 Emily Hererra

2013-2014 Meghan Woods, MPH: Simon Fraser; now student at Candler School of Theology.

2013-2015 Hattie Johnson, RN: Washington S. U.; now a nurse in Spokane, WA.

2013-2015 Ben Talbot, now a medical student at University of Toledo.

2013-2015 Jennifer Graham, (McNair scholar) now PhD student at the University of Arizona.

2012-2014 Sarai Milliron, DVM: UC Davis; now a vet in Boise, ID.

2012-2015 Melissa Kensek

2012-2013 Bethany Vance, now at Animal Clinic of Spokane

2012-2013 Allyson Dunlap, MLS: Providence Sacred Heart; now MLS in Seattle, WA.

2012-2013 Jason Bennetch

2012-2013 Cameron Brown, now DPT in Spokane, WA after graduating from EWU DPT program

2011-2013 Joyce Maroney

2011-2013 Arley Medrano, DDS: University of Washington; now Dentist in Omak WA

2011-2012 Brandon Cooper, Self-employed in Spokane, WA.

2011-2012 Nadine Downey; now K-12 teacher in Washington

2011-2012 Tyler Gable, PhD: University of Maryland; now at Mettler-Toledo International, Inc.

2011-2012 Ben Knox, PhD: University of Wisconsin; now working at Xymergen, Inc.

2011-2012 Vera Pikalova, now M.S. student at Univ. of Northern Colorado (McNair scholar)

2011-2012 Ghazal Meratnia, now student in WSU MS in Public Health Program

2010-2013 Amy Gray, MS. Now lecture at EWU Biology.

2010-2012 Marcus Hooper, now doctoral student at Univ. of Florida

2010-2012 Deborah (Steele) Harris, SHMC-Med Tech graduate and now at PAML

2010-2012 Stephen Sattler, PhD: Washington State Univ.; now postdoc in Kentucky.

2010-2011 Darlene Brumley, now at Hollister-Stier Laboratories

2010-2011 Sonny Tran, Pharm.D.: University of Washington; now pharmacist in Washington.

2010-2011 Kristen Stiltz.

2010-2011 Michelle Brault, PhD: Univ. of Washington now Postdoc at Univ. of Washington.

2009-2010 Allison Millward, PA: Nova Southeastern University; Now PA in South Carolina.

2009-2011 Chase Davies, DDS: University of Washington; now Dentist in Wenatchee, WA.

2009-2011 Chelsea LaRue, DO: Des Moines University; now Resident Physician in Illinois.