

K. SAMANTA ORELLANA

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RESEARCH INTERESTS

I am a [Guatemalan biologist and entomologist](#), specialized in neotropical beetles, natural history collections and biodiversity data. As a member of the Symbiota team and the GBIF Network, I actively collaborate with Latin American institutions, facilitating the digitization and mobilization of more than 50 biodiversity collections in the region. Currently, I am appointed as a [postdoctoral researcher](#) in the Symbiota and Entomology Divisions at the University of Kansas Biodiversity Institute, collaborating in the development of local and global biodiversity data initiatives. Additionally, I am serving as coordinator and mentor for the [GBIF BID-REG2025-081 project](#), aiming to increase the mobilization of biodiversity information in Central America.

EDUCATION

2024	Ph.D. in Evolutionary Biology. School of Life Sciences, Arizona State University, Tempe, Arizona, United States of America.
2018	M.Sc. in Entomology. University of Panama, Panama City, Panama.
2017	Postgraduate Diploma in Entomology. University of Panama, Panama City, Panama.
2014	B.Sc. in Biology. University San Carlos de Guatemala, Guatemala City, Guatemala.

LANGUAGES

Spanish, English (fluent)

PROFESSIONAL EXPERIENCE

2025-present	Postdoctoral Researcher, Entomology and Symbiota Divisions, Biodiversity Institute and Natural History Museum, University of Kansas, Lawrence, Kansas, United States of America.
2021-2024	Teaching Assistant. General Biology Department, School of Life Sciences, Arizona State University. Tempe, Arizona, USA.
2019-2021	Research Assistant. ASU Biocollections, Biodiversity Knowledge Integration Center, Arizona State University. Tempe, Arizona, USA.
2015	Research and Collection Management Assistant. BIGU Herbarium Research Unit, School of Biology, Universidad de San Carlos Guatemala, Guatemala.
2014-2016	Private Environmental Consultant. Environmental and Biological Studies of Guatemala, National Association of Private Natural Reserves in Guatemala, National Association of Coffee-Farmers, among others. Guatemala City, Guatemala.

SERVICE

2026-present	Portal Manager. Central American Collections Portal. https://centroamerica.symbiota.org Mentor. Global Biodiversity Information Facility (GBIF). https://www.gbif.org/mentors
2023-present	Steering Committee Member. Ecdysis Symbiota Portal. Hosted by the Symbiota Support Hub. https://ecdysis.org
2022-present	Node Delegate. Symbiota Node for the Global Biodiversity Information Facility. https://www.gbif.org/publisher/96710dc8-fecb-440d-ae3e-c34ae8a9616f

- 2021-present **International Community Coordinator for Latin America.** Symbiota Support Hub, iDigBio.
<https://symbiota.org/contact-the-support-hub>
- 2020-present **Portal Manager.** Biodiversity of Guatemala Symbiota Portal. Hosted by the Symbiota Support Hub.
<https://biodiversidad.gt>

MENTORSHIPS

- 2026-2028 **Project BID-REG2025-081: Increasing Open Biodiversity Information in Central America Through a Network of Digitized Scientific Collections.** Biodiversity Data for Development Fund, European Union and the Global Biodiversity Information Facility. Digitization and mobilization of 25 natural history collections in Central America. University of Kansas Biodiversity Institute and Symbiota, in collaboration with University of San Carlos de Guatemala, University of El Salvador, and University of Costa Rica. Mentor and project coordinator.
- 2021-2023 **Project BID-CA2020-031-NAC: Mobilizing natural history collections of the Dominican Republic.** Biodiversity Data for Development Fund, European Union and the Global Biodiversity Information Facility. Digitization and mobilization of 12 natural history collections in the Dominican Republic. Arizona State University and Symbiota, in collaboration with Zoology and Botany Research Institute, Autonomous University of Santo Domingo, Dominican Republic. Mentor.

AWARDS AND HONORS

- 2023 Elected Student Councilor. The Coleopterists Society.
- 2016 Full Scholarship for M.Sc. degree studies. Central American Regional Program, German Academic Exchange Service -DAAD- (2016-2018).
- 2016 Research Incentives Award. Research Directorate, Universidad de San Carlos de Guatemala, Guatemala City, Guatemala.
- 2015 Best Biology B.Sc. Thesis 2014-2015. Universidad de San Carlos de Guatemala, Guatemala City, Guatemala.

PUBLICATIONS

RESEARCH PAPERS

6. Castillo-Cabrera FJ, Roldán RA, Barrios M, Burgos-Barrios CL, Grajeda AL, García MJ, Cruz H, Morales-Mérida JR, Tenez D, Vásquez M, Agreda EO, Velásquez I, Eufragio A, Barahona-Fong R, Yurrita CL, **Orellana KS**. 2025. Contribution to the knowledge of urban biodiversity in Central America: A checklist to the species of Guatemala City. *Neotropical Biology and Conservation* 20(1): 59-66. <https://doi.org/10.3897/neotropical.20.e135435>
5. McKenna DD, Oberprieler RG, Marvaldi AE, Brown SDJ, Charles M, Medeiros BAS, Farrell BD, Leschen RAB, Mermudes JRM, **Orellana KS**, Shin S, Stals R, Li X. 2025. Unraveling the evolution of mycetophagy and phytophagy in fungus weevils (Curculionoidea: Anthribidae): Phylogenomic insights into Anthribinae paraphyly and tribal non-monophyly. *Systematic Entomology*, 50(4): 679-691. <https://doi.org/10.1111/syen.12674>
4. **Orellana KS**, Girón J. 2024. State of the State of knowledge of the Anthribidae (Insecta: Coleoptera: Curculionoidea) in Colombia with a key to genera. *Biota Colombiana*, 25, 1-18. <https://doi.org/10.21068/2539200X.1149>
3. **Orellana S**, Barrios H. 2021. Catalogue of the Anthribidae (Coleoptera: Curculionoidea) of Panama, including new country records and a key to genera. *Zootaxa* 4904 (1), 1-71. doi.org/10.11646/zootaxa.4904.1

2. **Orellana S**, Barrios H. 2018. Abundancia de Coleópteros (Insecta: Coleoptera) en dos órdenes de macrohongos (Basidiomycota) de un bosque tropical de Panamá. *Scientia Panamá* 28(1): 45-59.

1. **Orellana S**, Quezada M. 2015. Efecto de la conformación del paisaje en coleópteros (Insecta: Coleoptera) asociados a macrohongos de la Ecorregión Lachuá, Alta Verapaz, Guatemala (Effect of landscape conformation on the coleopterans (Insecta: Coleoptera) associated with fungi of the Eco-region Lachuá, Alta Verapaz, Guatemala). *Revista Científica* 25(1): 37-48.

BOOKS AND CHAPTERS

5. **Orellana KS**, Franz NM. 2023. Checklist of the Anthribidae (Coleoptera: Curculionoidea) of Guatemala, including new country records and a key to genera. In: Yoshimoto J, Schuster J, Monzón J. (Eds.) *Biodiversidad de Guatemala*. Vol. 3. Universidad del Valle de Guatemala: Guatemala. <https://doi.org/10.5281/zenodo.10424024> (Book Chapter)

4. **Orellana KS**, López ZM, Yoshimoto J, Quezada M, Prado L, Ambrocio AL, Dávila L, Barrios-Izás M, Bustamante M, Franz NM, Gilbert E. 2023. Digitalización de Colecciones Biológicas en el Portal Symbiota de Biodiversidad de Guatemala (*Digitization of Natural History Collections in the Guatemala Biodiversity Symbiota Portal*). In: Yoshimoto J, Schuster J & Monzón J. (Eds.) *Biodiversidad de Guatemala*. Vol. 3. Universidad del Valle de Guatemala: Guatemala. <https://doi.org/10.5281/zenodo.10424127> (Book Chapter)

3. Yoshimoto J, Cano EB, **Orellana S**. (Editors). 2023. *Insectos de Guatemala: Guía de Identificación (Insects of Guatemala: Identification Guide)*. Third Edition. Guatemala: Universidad Del Valle de Guatemala and Universidad de San Carlos de Guatemala. (Book).

2. Yoshimoto J, Cano EB, **Orellana S**. (Editors). 2018. *Insectos de Guatemala: Guía de Identificación (Insects of Guatemala: Identification Guide)*. Second Edition. Guatemala: Universidad Del Valle de Guatemala and Universidad de San Carlos de Guatemala. (Book).

1. Yoshimoto J, Cano EB, **Orellana S**. (Editors). 2015. *Insectos de Guatemala: Guía de Identificación (Insects of Guatemala: Identification Guide)*. Guatemala: Universidad Del Valle de Guatemala and Universidad de San Carlos de Guatemala. (Book).

CONFERENCE ABSTRACTS (* Presenting author)

8. **Orellana KS***, Gilbert E, Pearson K, Post G, Fisher M, Franz N. 2025. Use of Symbiota Portals to Integrate Biodiversity Information in Latin America. *Biodiversity Information Science and Standards* 9: e177303. <https://doi.org/10.3897/biss.9.177303>

7. **Orellana KS***, López ZM, Quezada ML, Yoshimoto J, Prado LM, Ambrocio A, Franz N, Gilbert E. 2025. Five Years of the Guatemala Biodiversity Portal: Increasing Capacities for the Mobilization of Natural History Collections Using Symbiota. *Biodiversity Information Science and Standards* 9: e178671. <https://doi.org/10.3897/biss.9.178671>

6. **Orellana KS***, López ZM, Yoshimoto J, Quezada ML, Prado LM, Ambrocio AL, Barrios-Izás MA, Jiménez RA, García P, Post G, Franz N, Gilbert E. 2024. Advances in the Digitization and Mobilization of Natural History Collections in Guatemala. *Biodiversity Information Science and Standards* 8: e134288. <https://doi.org/10.3897/biss.8.134288>.

5. Castillo-Cabrera FJ, Roldán RA, Barrios MV, Burgos-Barrios CL, Grajeda AL, García MJ, Cruz H, Morales-Mérida JR, Tenez ED, Vásquez M, Agreda EO, Velásquez I, Eufragio A, Barahona-Fong R, Yurrita CL, **Orellana KS***. 2024. Interactive

Checklists to Increase Access to Urban Biodiversity Information in Guatemala. Biodiversity Information Science and Standards 8: e137732. <https://doi.org/10.3897/biss.8.137732>.

4. **Orellana KS***, Gilbert E, Walker LJ, Pearson K, Prado LR, Post G, Yost J, Franz N. 2022. Taxonomic Curation in a Multi-taxa Symbiota Portal. Biodiversity Information Science and Standards, 6, e93671. <https://doi.org/10.3897/biss.6.93671>

3. Pearson K, Gilbert E, Franz N, **Orellana S**, Post G, Rocha Prado L, Walker LJ, Yost JM. 2022. Leveraging the Symbiota Support Hub for Biodiversity Data Mobilization. Biodiversity Information Science and Standards, 6, e93893. <https://doi.org/10.3897/biss.6.93893>

2. Pearson K, Gilbert E, **Orellana KS**, Post G, Walker L, Yost J, Franz N. 2022. Growth and Evolution of the Symbiota Portal Network. Biodiversity Information Science and Standards, 6, e112028. <https://doi.org/10.3897/biss.7.112028>

1. Gilbert E, Sterner B, Fisher MA, **Orellana KS**, Pearson K, Post G, Walker J, Wilt L, Yost JM, Franz N. 2022. Symbiota Integrations: Exploration of Historical and Current Methods of Data Sharing Across a Decentralized Portal Network and Goals of Extending Interoperability Globally. Biodiversity Information Science and Standards, 6, e111680. <https://doi.org/10.3897/biss.7.111680>

CONFERENCE PRESENTATIONS (* Presenting author)

24. **Orellana KS***, Falin Z, Fitzsimmons G, Stewart A, Bentley A, Franz NM. *Integrating Digital Resources to Increase Biodiversity Information in Latin America*. Digital Data Conference, iDigBio, USA (virtual). June 2026. <https://doi.org/10.6084/m9.figshare.32594904>

23. Fisher M, **Orellana KS**, Gilbert E, Franz N, Pearson K, Wilt L, Salikov N, Walker L, Post G. *Leveraging new Symbiota features to extend specimen data in existing biocollections*. Annual Meeting of the Entomological Society of America, Portland, Oregon. November 2025.

22. **Orellana KS***, López ZM, Bastardo R, Arias A., Pearson K, Franz N, Gilbert E. *Potential of Symbiota Installations to Mobilize Latin American Collections to GBIF*. In: Mobilizing Global South's Natural History: Integrating Collections into the GBIF for Biodiversity Symposium. Annual Meeting of the Society for the Preservation of Natural History Collections. Lawrence, Kansas, USA. May 2025.

21. **Orellana KS***, Franz N, Gilbert E, Freire-Fierro A. *Digitization of Latin American Herbaria with Symbiota* (in Spanish). Latin American Botanical Congress. La Habana, Cuba (virtual). March 2025.

20. **Orellana KS***. *Improving Accessibility of Entomological Collections for the Study of Neotropical Anthribidae*. Entomological Collections Network Annual Meeting. Phoenix, Arizona, USA. November 2024.

19. **Orellana KS***, López ZM, Gilbert E, Franz N. *Enabling Biodiversity Research in Guatemala with a Customized Symbiota Portal*. Digital Data Conference, iDigBio and Natural Science Collections Alliance, hosted by Kansas University. Lawrence, Kansas, USA. May 2024.

18. **Orellana KS***. *Generating an Illustrated Catalog of Anthribidae (Coleoptera: Curculionoidea) with TaxonWorks and TaxonPages*. TaxonWorks Together 2024 (virtual). May 2024.

17. **Orellana KS***, Gilbert E, Franz NM. *Bilingual Tools to Increase Digital Representation of Latin American Collections and Entomologists*. Entomological Collections Network Annual Meeting. National Harbor, Maryland, USA. November 2023.
16. Johnston A, Girón J, **Orellana KS**, Seltmann KC, Walker LJ, Lee S. *Ecdysis, an emerging community resource for digital specimen data and research*. Entomological Collections Network Annual Meeting. National Harbor, Maryland, USA. November 2023.
15. **Orellana KS***, Mermudes JRM, Franz N. *Advances in the Study of Central American Anthribidae*. Online Weevil Workers Meeting, Texas Tech University, United States Department of Agriculture, Canadian Museum of Nature (virtual). October 2023.
14. Yost J, **Orellana KS***. *Communities of Practice Across the Americas*. Digital Data Conference, iDigBio and Natural Science Collections Alliance, hosted by Arizona State University. Tempe, Arizona, USA. June 2023.
13. **Orellana KS***. *Symbiota Portals as Digitization Tools for Herbarium Collections* (in Spanish). II Simposio de Botánica de Guatemala, Universidad de San Carlos de Guatemala (virtual). November 2022.
12. **Orellana KS***. *The O'Brien Collection, a valuable resource for the study of Anthribidae*. Online Weevil Workers Meeting, Texas Tech University, United States Department of Agriculture, Canadian Museum of Nature (virtual). October 2022.
11. **Orellana KS***. *Engaging underrepresented communities with Symbiota portals: The case of Guatemala*. Digital Data Conference, iDigBio and Natural Science Collections Alliance, hosted by the Field Museum (virtual). June 2022.
10. Gilbert E, **Orellana KS**, Pearson K, Post G, Rocha Prado L, Yost J, Sterner B, Franz N. *Using Symbiota to establish a global, decentralized model for data aggregation: Novel concepts and designs to improve the interoperability of occurrence-based biodiversity data*. Conference of the Society for the Preservation of Natural History Collections. Edinburg (virtual). June 2022.
9. Pearson K, Franz N, Gilbert E, **Orellana KS**, Post G, Rocha Prado L, Yost J. *New Symbiota Features to Support Digital and Extended Specimen Data*. Conference of the Society for the Preservation of Natural History Collections. Edinburg (virtual). June 2022.
8. Rocha Prado L, Gilbert E, Franz N, **Orellana KS**, Pearson K, Post G, Yost J. *Identifiers and labels for everyone: Recent developments in Symbiota*. Conference of the Society for the Preservation of Natural History Collections. Edinburg (virtual). June 2022.
7. **Orellana KS***. *Current studies on Central American Anthribidae (Coleoptera: Curculionoidea): The impressive diversity of fungus weevils in Panama*. Entomological Society of America Annual Meeting (virtual). November 2020.
6. **Orellana KS***. *Promoting the digitization of Latin American entomological collections using Symbiota portals*. Equity, Justice and Inclusion in Ento: Making Entomological Collections Research More Accessible Mini Symposium. Entomological Collections Network Annual Meeting (virtual). November 2020.
5. **Orellana KS***. *Digitization of Mesoamerican Biological Collections using Symbiota portals* (In Spanish). Mesoamerican Society of Biology and Conservation, I Virtual Meeting (virtual). October 2020.

4. **Orellana KS***. *Collection-based research: Discovering the Neotropical Anthribidae*. III Symposium of Evolutionary Biology, School of Life Sciences, Arizona State University, Arizona (virtual). October 2020.
3. **Orellana KS***. *Research experiences in Central America: Tropical forests, beetles and collections*. II Symposium of Evolutionary Biology, School of Life Sciences, Arizona State University, Arizona. October 2019.
2. **Orellana KS***. *Nuevos registros y extensiones de rango para Anthribidae (Coleoptera: Curculionoidea) de Panama*. III Coloquio de Biología. Universidad del Valle de Guatemala, Ciudad de Guatemala, Guatemala. June 2019.
1. **Orellana KS***. *Efecto de la conformación del paisaje en coleópteros (Insecta: Coleoptera) asociados a hongos de la Ecoregión Lachuá, Alta Verapaz, Guatemala*. Reunión Científica Anual del Instituto de Investigaciones Químicas y Biológicas. Universidad de San Carlos de Guatemala, Ciudad de Guatemala, Guatemala. June 2016.

POSTER PRESENTATIONS

6. Agunbiade OO, **Orellana KS**, Franz NM. 2026. Digitizing and publishing Naupactini weevil specimen data and images based on a modern insect research collection workflow (Coleoptera: Curculionidae). Kansas Academy of Science Annual Meeting, Lawrence, KS, USA.
5. Dexter LC, Chitwood M, Díaz Hernandez C, Hernandez Hellebust S, Von Der Heyde T, Osborn R, Falin Z, Franz N, Gonzalez V, **Orellana KS**. 2026. Undergraduate experiences within the Department of Entomology & KU Biodiversity Institute. Kansas Academy of Science Annual Meeting, Lawrence, KS, USA.
4. Franz N, Fisher M, Gilbert E, **Orellana S**, Pearson K, Post G, Salikov N, Walker L, Wilt L, Yost J. 2026. *New Opportunities to manage and publish genomic sample data through Symbiota portals*. KU Center for Genomics 5th Annual Research Symposium, University of Kansas, Lawrence, KS, USA.
3. Walker L, Fisher M, Franz N, Gilbert E, Pearson K, Post G, **Orellana S**, Yost J. 2023. *Symbiota*. iDigBio's Digital Data in Biodiversity Research Conference, Tempe, AZ, USA.
2. Gilbert E, Pearson K, Post G, Rocha Prado L, **Orellana KS**, Walker L, Yost J, Franz N. 2021. *The state of the Symbiota Portals: Gateways to digital management and discovery*. Conference of the Society for the Preservation of Natural History Collections. Edinburgh.
1. Quezada M, Perez-Silva E, **Orellana KS**. 2014. *Coleópteros asociados a Marasmiaceae y Polyporaceae del bosque lluvioso de Lachuá*. Asociación Internacional de Micología, VIII Congreso Latinoamericano de Micología. Medellín, Colombia.

SCIENTIFIC OUTREACH

ORGANIZED WORKSHOPS

9. **Introduction to Symbiota: A Tool for the Management, Mobilization, and Exploration of Biodiversity Data** (in Spanish). October 2025. Organizer and Instructor. University of Kansas and Yale Peabody Museum. Lima, Peru.
8. **Guatemala Biodiversity Portal Curators Training** (in Spanish). June 2025. Organizer and instructor. Symbiota Support Hub, University of Kansas. Guatemala City, Guatemala.

7. **Interactive Tools for the Study of Guatemalan Biodiversity** (virtual, in Spanish). September 2023. Organizer and instructor. Symbiota Support Hub, Arizona State University.

6. **A Guided Tour of the Guatemala Biodiversity Portal** (virtual, in Spanish). March 2023. Organizer and instructor. Symbiota Support Hub, Arizona State University.

5. **Natural History Collections Digitization and Mobilization with Symbiota Portals: Mexican Herbaria Network** (virtual, in Spanish). November 2022. Co-organizer and instructor. Mexican Herbaria Network and Arizona State University.

4. **Natural History Collections Digitization and Mobilization with Symbiota Portals** (virtual, in Spanish). September 2022. Organizer and instructor. Symbiota Support Hub, Arizona State University.

3. **Digitization of Natural History Collections in the Guatemala Biodiversity Symbiota Portal** (virtual, in Spanish). August 2022. Organizer and instructor. Symbiota Support Hub, Arizona State University.

2. **Introduction to Symbiota databases platform: Consortium of Small Vertebrate Collection** (virtual, in Spanish). August 2020. Organizer and instructor. Biological Collections System of the School of Biology, Universidad de San Carlos de Guatemala.

1. **Introduction to Symbiota databases platform: ecdysis** (virtual, in Spanish). July 2020. Organizer and instructor. Universidad del Valle de Guatemala.

INVITED PRESENTATIONS

12. **Systematics of Neotropical Anthribidae: Contributions from Entomological Collections** (in Spanish). July 2025. Museo de Insectos, Centro de Investigación en Protección de Cultivos, Universidad de Costa Rica. San Jose, Costa Rica.

11. **Symbiota Portals** (virtual, in Spanish). September 2022. Natural History Collections Management Workshop, Instituto de Investigación de Recursos Biológicos Alexander von Humboldt, Colombia.

10. **Digitizing Natural History Collections in Guatemala** (virtual, in Spanish). September 2022. Connecting Collections Workshop Series, Society for the Preservation of Natural History Collections and the Global Biodiversity Information Facility.

9. **Publication of Biodiversity data to GBIF from the Guatemala Biodiversity Portal** (virtual, in Spanish). May 2022. Colegio de Farmacéuticos y Químicos de Guatemala.

8. **Introduction to the Guatemala Biodiversity Portal** (virtual, in Spanish). August 2021. Natural History Collections Digitization Workshop, Universidad del Valle de Guatemala.

7. **Importance of Natural History Collections for the Study of Biodiversity** (virtual, in Spanish). July 2021. Universidad Rafael Landívar, School of Agricultural Sciences. Guest speaker for the undergraduate Botany course.

6. **Symbiota: A platform to mobilize, integrate and use natural history collections data** (In Spanish). April 2021. Webinars Series, Sistema de Información sobre Biodiversidad de Colombia (virtual).

5. **Guatemala Biodiversity Portal: Digitizing the biological collections of the country** (In Spanish). March 2021. Conference Series Women in STEM: Science, Technology, Engineering, and Mathematics, Women Who Code, Guatemala (virtual).

4. **Digitization of Biological Collections using the Guatemala Biodiversity Portal** (virtual, in Spanish). February 2021. Undergraduate Collections Management Course, Universidad de San Carlos de Guatemala.
3. **Introduction to Coleoptera** (virtual, in Spanish). November 2020. Undergraduate Entomology Course, Universidad de Costa Rica, Campus Guanacaste.
2. **Taxonomy of Anthribidae** (virtual, in Spanish). August 2020. Undergraduate Taxonomy course, Universidad de San Carlos de Guatemala.
1. **Relevance of Entomological Collections in the Study of Biodiversity: Research Experiences in North and Central America** (in Spanish). March 2020. Universidad de San Carlos de Guatemala.

ONLINE RESOURCES

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| 2026-present | Central American Collections Portal. Symbiota portal for the management of natural history collections in Central America. https://ks.symbiota.org/portal/index.php |
| 2025-present | Kansas Biodiversity Portal. Symbiota portal focused on the biodiversity of Kansas. https://ks.symbiota.org/portal/index.php |
| 2024-present | The Weevil Portal. Symbiota portal focused on the superfamily Curculionoidea. https://weevil.symbiota.org/portal/index.php |
| 2023-present | Anthribidae of the World Online. Virtual Catalog of Anthribidae generated with TaxonWorks and TaxonPages. https://anthribidae.github.io/species |
| 2022-present | Anthribidae of the World. Website dedicated to share information about the Anthribidae specimens in the O'Brien Collection. https://anthribidae.github.io |
| 2020-present | Anthribidae on ecdysis. Digitized and imaged specimens (ASU Biocollections). Updated regularly. https://ecdysis.org/collections/datasets/public.php?datasetid=33 |
| 2020-present | Guatemala Portal Docs. Documentation site for users of the Guatemala Biodiversity Portal. https://guatemalaportal.github.io/ |
| 2020-present | Guatemala Biodiversity Portal. Symbiota portal for the management of natural history collections in Guatemala. https://biodiversidad.gt/ |
| 2020-present | Insectos de Guatemala. Website in Spanish designed to share information about the groups of insects in Guatemala (in Spanish). insectosdeguatemala.org |

COMPLEMENTARY TRAINING

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| 2022 | Entomological Collection Management Workshop. Entomological Collection Network and Arizona State University, Arizona, USA. |
| 2021 | Tenebrionidae Identification and Classification Virtual Workshop. Arizona State University, Arizona, USA. |

- Digitization Academy: Introduction to Biodiversity Specimen Digitization. iDigBio, University of Florida, Florida State University and Florida Museum. Virtual.
- 2018 Introduction to Molecular Biology Techniques Workshop. Universidad de San Carlos de Guatemala. Guatemala City, Guatemala.
- Use of Leica M205A Stereomicroscope and Imaging Software (Workshop). University of Panama, Panama City, Panama.
- 2015 Identification of the Main Species of Scale Insects (Hemiptera: Coccoidea) of Agricultural Relevance (Course-Workshop). Universidad del Valle de Guatemala and United States Department of Agriculture (USDA), Guatemala City, Guatemala.
- Zoological Nomenclature (Course). Biological Sciences Graduate Program, Autonomous National University of Mexico, Universidad de San Carlos de Guatemala and the International Commission on Zoological Nomenclature, Guatemala City, Guatemala.
- 2013 Morphology and Identification of Hymenoptera, with emphasis on parasitoid wasps (Course). Universidad del Valle de Guatemala, United States Department of Agriculture (USDA) and University of Costa Rica, Guatemala City, Guatemala.
- Spatial Analysis of Biodiversity, with Geographical Information Systems (Course). BIGU Herbarium Research Unit, Universidad de San Carlos de Guatemala, Guatemala City, Guatemala.
- 2010 Introduction to Chrysomelidae (Coleoptera) Taxonomy (Course). Multidisciplinary Academic Unit of Agriculture and Sciences, Autonomous University of Tamaulipas, Tamaulipas, México.

PROFESSIONAL ORGANIZATIONS

- The Coleopterist Society
- Entomological Society of America
- Organization for Women in Science for the Developing World
- College of Professional Pharmacists and Chemists of Guatemala