DAVID SALAZAR-VALENZUELA
De los Madroños N47E y Avenida El Inca, Quito, Ecuador.
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RESEARCH INTERESTS

My academic interests center on the evolution, ecology, and conservation of Neotropical biodiversity, with a particular emphasis on the study of venomous and poisonous animals and approaching such interests from a One Health perspective. In close collaboration with colleagues and students, our research investigates amphibians, reptiles, and invertebrates to address fundamental questions related to: (1) patterns and processes underpinning biological diversification within this biogeographical region; (2) the evolutionary ecology of toxin-mediated interactions; and (3) the causes and consequences of the significant structural and functional diversity found within animal toxins. To achieve these objectives, we gather and analyze genomic, proteomic, transcriptomic, and toxicological data, enabling us to infer evolutionary histories of populations and species, support conservation efforts for threatened species, and improve health outcomes for humans, these remarkable venomous and poisonous animals, and our shared environment.

EDUCATION

2016	**Ph.D., Evolution, Ecology, and Organismal Biology.** The Ohio State University, Columbus, Ohio, USA.
2007	**B.Sc.**, **Biology**. The Pontifical Catholic University of Ecuador, Quito, Ecuador.

PROFESSIONAL APPOINTMENTS

2016-present	Principal Professor – Department of Environmental Sciences, Universidad Tecnológica Indoamérica, Quito, Ecuador.
2023, 2025-present	Coordinator of the Center for Biodiversity and Climate Change Research – Universidad Tecnológica Indoamérica, Quito, Ecuador.
2025-present	Expert Consultant on venomous snakes and toxinology – National Institute for Public Health Research Dr. Leopoldo Izquieta Pérez (INSPI), Ecuador.
2023-2024	Visiting researcher Fellow – Butantan Institute, São Paulo, Brazil.
2023-present	Curator – Museum of Zoology MZUTI (Herpetology and Invertebrates collections), Universidad Tecnológica Indoamérica, Quito, Ecuador.
2021-2022	Dean of the Department of Environmental Sciences – Universidad Tecnológica Indoamérica, Quito, Ecuador.
2020, 2023	Community Outreach Coordinator – Department of Environmental Sciences, Universidad Tecnológica Indoamérica, Quito, Ecuador.
2016	Postdoctoral Fellow – The Ohio State University, USA.
2014	Graduate Research Assistant – The Ohio State University, USA.
2012-2015	Graduate Teaching Assistant – The Ohio State University, USA.
2010-2011	Fulbright Scholar – The Ohio State University, USA.

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2011-2016	Research Associate– Museum of Zoology QCAZ (Herpetology), The Pontifical Catholic University of Ecuador.
2007-2009	Researcher – Museum of Zoology QCAZ (Herpetology), The Pontifical Catholic University of Ecuador.
2007	Biological Field Technician – Montana Natural Heritage Program, University of Montana, USA.
2007	Biological Field Technician – Idaho Conservation Data Center, USA.

SCIENTIFIC PRODUCTION

PUBLISHED PEER-REVIEWED JOURNAL ARTICLES

*Undergraduate student
** Graduate student

(35) Lötters, S, P Böning, S. Bailon, … **D. Salazar-Valenzuela**, … and A. Plewnia. 2025. A roadmap for harlequin frog systematics, with a partial revision of Amazonian species related to *Atelopus spumarius*. *Zootaxa*, 5571, 1-76.

(34) Guevara-Andino, JE, LM Dávalos, F Zapata, MJ Endara, DD Cotoras, J Chaves, S Claramunt, J López-Delgado, AM Mendoza-Henao, **D Salazar-Valenzuela**, G Rivas-Torres and J Yeager. 2024. Neotropics as a cradle for adaptive radiations. *Cold Spring Harbor Perspectives in Biology*: a041452.

(33) De-Kayne, R, R Schley, JMI Barth, LC Campillo, C Chaparro-Pedraza, J Joshi, W Salzburger, B Van Bocxlaer, DD Cotoras, C Fruciano, AJ Geneva, R Gillespie, J Heras, S Koblmüller, B Matthews, G Meszéna, RE Onstein, O Seehausen, P Singh, EI Svensson, **D Salazar-Valenzuela**, MPM Vanhove, GOU Wogan, R Yamaguchi, AD Yoder and J Cerca. 2024. Why do some lineages radiate while others do not? Perspectives for future research on adaptive radiations. *Cold Spring Harbor Perspectives in Biology*: a041448.

(32) Savage, AM, MJ Willmott, P Moreno-García, Z Jagiello, D Li, A Malesis, LS Miles, C Román-Palacios, **D Salazar-Valenzuela**, BC Verrelli, KM Winchell, M Alberti, S Bonilla-Bedoya, E Carlen, C Falvey, L Johnson, E Martin, H Kuzyo, J Marzluff, J Munshi-South, M Phifer-Rixey, I Stadnicki, M Szulkin, Y Zhou and KM Gotanda. 2024. Online toolkits for collaborative and inclusive global research in urban evolutionary ecology. *Ecology and Evolution* 14: e11633.

(31) Vega-Yánez, MA, AB Quezada-Riera, B Rios-Touma, MC Vizcaíno-Barba, W Millingalli, O Ganzino, LA Coloma, EE Tapia, N Dupérré, M Páez-Vacas, D Parra-Puente, D Franco-Mena, G Gavilanes, **D Salazar-Valenzuela**, CA Valle and JM Guayasamin. 2024. Path for recovery: an ecological overview of the Jambato Harlequin Toad (Bufonidae: *Atelopus ignescens*) in its last known locality, Angamarca Valley, Ecuador. *PeerJ* 12: e17344.

(30) Plewnia, A, A Terán-Valdez, J Culebras, J., R Boistel, DJ Paluh, AB Quezada-Riera, CH Heine, JP Reyes-Puig, **D Salazar-Valenzuela**, JM Guayasamin and S. Lötters. 2024. A new species of harlequin toad (Bufonidae: *Atelopus*) from Amazonian Ecuador. *Salamandra*, 60: 237–253.

(29) Rivas, JA, P de la Quintana, M Mancuso, LF Pacheco, GA Rivas, S Mariotto, **D Salazar-Valenzuela**, MT Baihua, P Baihua, GM Burghardt, FJ Vonk, E Hernandez, JE García-Pérez, BG Fry and S Corey-Rivas. 2024. Disentangling

the Anacondas: Revealing a new green species and rethinking yellows. *Diversity* 16: 127.

(28) Bayona-Serrano, JD, FG Grazziotin, **D Salazar-Valenzuela**, RH Valente, PG Nachtigall, M Colombini, AM Moura da Silva and ILM Junqueira-de-Azevedo. 2023. Independent recruitment of different types of phospholipases A2 to the venoms of Caenophidian snakes: the rise of PLA2-IIE within Pseudoboini (Dipsadidae). *Molecular Biology and Evolution* 40: msad147.

(27) Nachman, MW, EJ Beckman, RCK Bowie, … **D. Salazar-Valenzuela**, … and RM Zink. 2023. Specimen collection is essential for modern science. *PLoS Biology* 21: e3002318.

(26) Mancuso, M, S Zaman, ST Maddock, RG Kamei, **D Salazar-Valenzuela**, M Wilkinson, K Roelants and BG Fry. 2023. Resistance is not futile: Widespread convergent evolution of resistance to alpha-neurotoxic snake venoms in caecilians (Amphibia: Gymnophiona). *International Journal of Molecular Sciences* 24: 11353.

(25) Almeida, JR, A Gomes, B Mendes, L Aguiar, M Ferreira, M Borges Costa Brioschi, D Duarte, F Nogueira, S Cortes, **D Salazar-Valenzuela**, DC Miguel, C Teixeira, P Gameiro and P. Gomes. 2023. Unlocking the potential of snake venom-based molecules against the malaria, Chagas disease, and leishmaniasis triad. *International Journal of Biological Macromolecules* 242: 124745.

(24) Páez-Vacas, M, MR Bustamante, N Baer, NH Oleas, … and **D Salazar-Valenzuela**. 2023. Citizen science as a tool for education: First Bioblitz in Quito, Ecuador. In *IOP Conference Series: Earth and Environmental Science* 1141: 012004.

(23) Carrasco, PA, C Koch, FG Grazziotin, P Venegas, JC Chaparro, GJ Scrocchii, **D Salazar-Valenzuela**, GC Leynaud and CI Mattoni. 2023. Total-evidence phylogeny and evolutionary morphology of New World pitvipers (Serpentes: Viperidae: Crotalinae). *Cladistics*. 39: 71–100.

(22) Loaiza-Lange, A**, D Székely, O Torres-Carvajal, N Tinoco, **D Salazar-Valenzuela** and P Székely. 2023. Feeding ecology of the Terciopelo pitviper snake (*Bothrops asper*) in Ecuador. *PeerJ* 11: e14817.

(21) Rödell, MO, A Loaiza-Lange, J Penner, KD Neira-Salamea and **D Salazar-Valenzuela**. 2023. A mouth full of blood–autohaemorrhaging in three Ecuadorian snakes (Squamata: Colubridae & Tropidophiidae). *Herpetology Notes* 16: 25-30.

(20) Hernández-Altamirano, JA*, **D Salazar-Valenzuela**, EJ Medina-Villamizar, DR Quirola, K Patel, S Vaiyapuri, B Lomonte and JR Almeida. 2022. First insights into the venom composition of two Ecuadorian coral snakes. *International Journal of Molecular Sciences* 23: 14686.

(19) Jaynes, KE, MI Páez-Vacas, **D Salazar-Valenzuela**, JM Guayasamin, A Terán-Valdez, FR Siavichay, SW Fitzpatrick and LA Coloma. 2022. Harlequin frog rediscoveries provide insights into species persistence in the face of drastic amphibian declines. *Biological Conservation* 276: 109784.

(18) Patiño, RSP*, **D Salazar-Valenzuela**, AA Robles-Loaiza, P Santacruz-Ortega and JR Almeida. 2022. A retrospective study of clinical and epidemiological characteristics of snakebite in Napo province, Ecuadorian Amazon. *Transactions of The Royal Society of Tropical Medicine and Hygiene*, trac071.

(17) Vera-Palacios, AL, JD Sacoto-Torres, JA Hernández-Altamirano, A Moreno, MC Peñuela-Mora, **D Salazar-Valenzuela**, NGS Mogollón and JR Almeida. 2022. A first look at the inhibitory potential of *Urospatha sagittifolia* (Araceae) ethanolic extract for *Bothrops atrox* snakebite envenomation. *Toxins* 14: 496.

(16) Patiño, RSP***, D Salazar-Valenzuela**, E Medina-Villamizar, B Mendes, C Proaño-Bolaños, SL da Silva and JR Almeida. 2021. *Bothrops atrox* from Ecuadorian Amazon: initial analyses of venoms from individuals. *Toxicon*. 193: 63–72.

(15) Mora-Obando, D, **D Salazar-Valenzuela**, D Pla, B Lomonte, JA Guerrero-Vargas, S Ayerbe, HL Gibbs and JJ Calvete. 2020. Venom variation in *Bothrops asper* lineages from north-western South America. *Journal of Proteomics* 229: 103945.

(14) Timms, J, JC Chaparro, PJ Venegas, **D Salazar-Valenzuela**, G Scrocchi, J Cuevas, G Leynaud, and PA Carrasco. 2019. A new species of pitviper of the genus *Bothrops* (Serpentes: Viperidae: Crotalinae) from the Central Andes of South America. *Zootaxa* 4656: 99–120.

(13) **Salazar-Valenzuela, D**, U Kuch, O Torres-Carvajal, JH Valencia, and HL Gibbs. 2019. Divergence of tropical pitvipers promoted by independent colonization events of dry montane Andean habitats. *Journal of Biogeography* 46: 1826–1840.

(12) Akcali, CK, HA Pérez-Mendoza, **D Salazar-Valenzuela**, D Kikuchi, JM Guayasamin, and DW Pfennig. 2019. Evaluating the utility of camera traps in field studies of predation. *PeerJ* 7: e6487.

(11) Torres-Carvajal, O, G Pazmiño-Otamendi, and **D Salazar-Valenzuela**. 2019. Reptiles of Ecuador: a resource-rich online portal, with dynamic checklists and photographic guides. *Amphibian & Reptile Conservation* 13: 209–229.

(10) Gibbs, HL, M Sovic, D Amazonas, H Chalkidis, **D Salazar-Valenzuela**, and A Moura. 2018. Recent lineage diversification in a venomous snake through dispersal across the Amazon River. *Biological Journal of the Linnean Society* 123: 651–665.

(9) Pomerantz, A, N Peñafiel, A Arteaga, L Bustamante, F Pichardo, LA Coloma, CL Barrio-Amorós, **D Salazar-Valenzuela**, and S Prost. 2018. Real-time DNA barcoding in a rainforest using nanopore sequencing: opportunities for rapid biodiversity assessments and local capacity building. *GigaScience* 7: 1–14.

(8) Arteaga, A, **D Salazar-Valenzuela**, K Mebert, N Peñafiel, G Aguiar, JC Sánchez-Nivicela, RA Pyron, TJ Colston, DF Cisneros-Heredia, MH Yánez-Muñoz, PJ Venegas, JM Guayasamin, and O Torres-Carvajal. 2018. Systematics of South American snail-eating snakes (Serpentes, Dipsadini), with the description of five new species from Ecuador and Peru. *Zookeys* 766: 79–147.

(7) **Salazar-Valenzuela, D**, A Martins, L Amador-Oyola, and O Torres-Carvajal. 2015. A new species and country record of threadsnakes (Serpentes: Leptotyphlopidae: Epictinae) from northern Ecuador. *Amphibian & Reptile Conservation* 8: 107–120.

(6) **Salazar-Valenzuela, D**, D Mora-Obando, ML Fernández, A Loaiza-Lange, HL Gibbs, and B Lomonte. 2014. Proteomic and toxicological profiling of the venom of *Bothrocophias campbelli*, a pitviper species from Ecuador and Colombia. *Toxicon* 90: 15–25.

(5) **Salazar-Valenzuela, D**, O Torres-Carvajal, and P Passos. 2014. A new species of *Atractus* (Serpentes: Dipsadidae) from the Andes of Ecuador. *Herpetologica* 70: 350–363.

(4) **Salazar-Valenzuela, D**, EO Carrillo, and S Aldás. 2010. *Tricheilostoma anthracinum*: geographic distribution. *Herpetological Review* 41: 111–112.

(3) Bravo, F and **D Salazar-Valenzuela**. 2009. A new species of *Sycorax* Curtis (Diptera, Psychodidae, Sycoracinae) collected on harlequin frogs (Anura: Bufonidae, *Atelopus*) in the Ecuadorian Andes. *Zootaxa* 2093: 37–42.

(2) Passos, P, DF Cisneros-Heredia, and **D Salazar-Valenzuela**. 2007. Rediscovery and redescription of the rare Andean snake *Atractus modestus*. *Herpetological Journal* 17: 1–6.

(1) Boada, C, **D Salazar-Valenzuela**, A Freire Lascano, and U Kuch. 2005. The diet of *Bothrops asper* (Garman, 1884) in the Pacific lowlands of Ecuador. *Herpetozoa* 18: 77–79.

NON-PEER-REVIEWED AND ELECTRONIC PUBLICATIONS

(6) Torres-Carvajal, O, G Pazmiño-Otamendi, F Ayala-Varela y **D Salazar-Valenzuela**. 2024. Reptiles del Ecuador. Versión 2024.1 Museo de Zoología, Pontificia Universidad Católica del Ecuador. **https://bioweb.bio/faunaweb/reptiliaweb**

(5) Santacruz-Ortega, P y **D Salazar-Valenzuela**. 2020. Envenenamiento por mordeduras de serpientes en Ecuador. BIOWEB. Pontificia Universidad Católica del Ecuador. **https://bioweb.bio/faunaweb/reptiliaweb/Ofidismo**

(4) **Salazar-Valenzuela, D**. 2019. Galápagos: archipiélago de escamas. *Ecuador Terra Incognita* 117: 10–21.

(3) **Salazar-Valenzuela, D** y P Santacruz-Ortega. 2011. La culebra en la montaña. *Nuestra Ciencia* 13: 55–58.

(2) **Salazar-Valenzuela, D**. 2008. Serpientes: miedo y fascinación. *Ecuador Terra Incognita* 54: 10–15.

(1) Proaño-Bolaños, C, A Merino-Viteri, P Peña-Loyola and **D Salazar-Valenzuela**. 2007. A midaltitude report of *Batrachochytrium dendrobatidis* in Ecuador. *Froglog* 82: 3–4.

BOOKS

Bahamonde, D, K Giler, V Ruiz, **D Salazar-Valenzuela**, C Salgado, C Silva, J Venegas, H Villalba and A Viteri. 2017. Manejo clínico del envenenamiento por mordeduras de serpientes venenosas y picaduras de escorpiones. Protocolo basado en evidencia. Ministerio de Salud Pública, Dirección Nacional de Prevención y Control y Dirección Nacional de Normatización, Quito. ISBN: 978-9942-30-499-5.
https://aplicaciones.msp.gob.ec/salud/archivosdigitales/documentosDirecciones/dnn/archivos/AC_00153_2017%2021%20NOV.pdf

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GRANTS AND FUNDING

2022-2026	Universidad Tecnológica Indoamérica internal research grant – 153 425 USD
2021-2023	Hospital Partnerships Program of GIZ – 50 000 euros
2021	Ecuadorian corporation for research and academia development - 25 500 USD
2021	Environmental Fund Distrito Metropolitano de Quito - 7 800 USD
2020	Hamish Ogston Foundation Education Grant (Snakebite) – 5 000 GBP
2019	Wellcome Genome Campus Advanced Courses Travel Grant – 1 800 USD
2017-2021	Universidad Tecnológica Indoamérica internal research grant – 142 637 USD
2016	Ernst Mayr Grant, Museum of Comparative Zoology, Harvard University – 1 500 USD
2015	University of Illinois Travel Grant – 500 USD
2014	The Ohio State University Graduate School's Alumni Grant for Graduate Research and Scholarship – 2 000 USD
2013	German Research Foundation (Deutsche Forschunsgemeinschaft) grant to support the initiation of international collaboration – 8 400 euros
2012	Tinker Field Research Grant – 1 300 USD
2010	Department of Evolution, Ecology, and Organismal Biology at The Ohio State University /Columbus Zoo Co-operative Grant – 10 000 USD
2007	Society for the Study of Amphibians and Reptiles Travel Grant – 200 USD
2006	Natural History Museum of Geneva, Switzerland, Travel Grant- 1 000 USD
2005	Conservation International Travel Grant – 250 USD

FELLOWSHIPS AND RECOGNITIONS

2021-present	Snakebite Envenoming Roster of Experts and Technical Advisory Group – World Health Organization.
2023-2024	Visiting Researcher Fellow at Butantan Institute – São Paulo Research Foundation (35 000 USD)
2022-2023	Fulbright Ambassador – Fulbright Commission Ecuador
2010-2011	Fulbright Scholarship to attend Graduate School at The Ohio State University, United States (35 796 USD).
2010-2011	The Ohio State University Fellowship Award (65 628 USD).
2009	Lewis Anthony Dexter Fellow in Tropical Conservation Biology – University of Florida (25 000 USD; declined).
2000-2001	The Pontifical Catholic University of Ecuador Fellowship – Museum of Zoology QCAZ (Herpetology).

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TEACHING EXPERIENCE

2023	Principal Professor (Evolutionary Principles for Understanding the Diversification of Venomous Animals and Their Toxins) – Toxinology Graduate Program, Instituto Butantan, Brazil.
2016-present	Principal Professor in Undergraduate and Graduate Programs. Department of Environmental Sciences, Universidad Tecnológica Indoamérica, Quito, Ecuador: Evolution, Zoology, Practical Field Techniques, Introduction to Statistics, Conservation Biology, Research Design.
2017	Instructor for the Seminar "From the Laboratory to Programming: How to Successfully Design and Implement a RAD Sequencing Project". XI Latin American Congress of Herpetology. Pontificia Universidad Católica del Ecuador, Quito, Ecuador.
2016	Guest Lecturer. Evolution course. Department of Evolution, Ecology and Organismal Biology. The Ohio State University, Columbus, Ohio, United States.
2011-2015	Graduate Teaching Assistant, The Ohio State University, Columbus, Ohio, United States. Evolution, Introductory Biology (Cell and Molecular Biology), Introductory Biology (Ecology and Evolution), Biology of Dinosaurs.
2010	Guest Professor of Herpetology. Master of Science Program in Conservation Biology. The Pontifical Catholic University of Ecuador.

INVITED SEMINARS AND CONFERENCE PRESENTATIONS

(16) **Salazar-Valenzuela, D**. 2025. Keynote Lecture. "Advances in the study of toxic secretions in venomous – and mildly venomous– Andean snakes through omics technologies." First Peruvian Congress of Herpetology – Lima, Peru.

(15) **Salazar-Valenzuela, D**. 2023. "Knowledge, appreciation, and protection of Ecuadorian Andean snakes through toxinological studies of their venoms." XII Latin American Congress of Herpetology – Cochabamba, Bolivia.

(14) **Salazar-Valenzuela, D** et al. 2022. "Transcriptomic analyses in a neglected lineage of South American pitvipers: venom toxin diversity in Toad-headed pitvipers (genus *Bothrocophias*)". Gordon Research Conference: Venom evolution, function and biomedical applications – Mount Snow, Vermont, USA.

(13) **Salazar-Valenzuela, D**. et al. 2021. "Divergence of tropical pitvipers promoted by independent colonization events in Andean montane habitats." XLV National Biology Conference – Quito, Ecuador.

(12) **Salazar-Valenzuela, D**. et al. 2021. "Divergence of tropical pitvipers promoted by independent colonization events in Andean montane habitats." First Latin American Congress of Evolution – Virtual Event.

(11) **Salazar-Valenzuela, D**. et al. 2021. "Divergence of tropical pitvipers promoted by independent colonization events of montane Andean habitats." Virtual Evolution Conference organized by the Society for the Study of Evolution, the Society of Systematic Biologists, and the American Society of Naturalists.

(10) **Salazar-Valenzuela, D**. et al. 2019. "An evolutionary framework for venom variation patterns in terciopelo pitvipers (Bothrops asper), a model organism in toxinology." World Congress of the International

Society of Toxinology: "21st Century Toxinology: Impact of Basic, Translational, and Clinical Sciences on Public Health" – Buenos Aires, Argentina.
(9) **Salazar-Valenzuela, D**. et al. 2018. "Diversification in the Neotropics: evidence from phylogenomic patterns, historical demographic processes, and venom variation in lancehead pitvipers." Gordon Research Conference, Frontiers in Science: Evolution of Venoms, Function, and Biomedical Applications – Mount Snow, Vermont, USA
(8) **Salazar-Valenzuela, D** et al. 2017. "Diversification in neotropical snakes: evidence from phylogenomic patterns, historical demography processes, and natural history data of pitviper and coral snakes".
XI Latin American Congress of Herpetology – Quito, Ecuador.
(7) **Salazar-Valenzuela, D** et al. 2015. "Phylogenomics and species delimitation in the *Bothrops asper* complex: an almost-model organism". Society for Systematic Biologists Meeting – Ann Arbor, Michigan, USA.
(6) **Salazar-Valenzuela, D**, D Mora-Obando, ML Fernández, A Loaiza-Lange, HL Gibbs, and B Lomonte. 2014. "Proteomic analysis of the venom of *Bothrocophias campbelli*, a pivtviper species from Ecuador and Colombia". Biology of the Pitvipers 2 Symposium – Tulsa, Oklahoma, USA.
(5) **Salazar-Valenzuela, D**. 2012. "Challenges and goals of snakebite research in Ecuador. Case study of the "ultimate pitviper" (*Bothrops asper*)". National Meeting of Infectious Disease Research and Tropical Medicine – Quito, Ecuador.
(4) **Salazar-Valenzuela, D**, A Freire-Lascano, and U Kuch. 2008. "The pitviper *Bothrops asper* as a cause of snakebite accidents on an interandean valley in southern Ecuador". Global Issues in Clinical Toxinology Meeting – Melbourne, Australia
(3) **Salazar-Valenzuela, D**, A Freire-Lascano, and U Kuch. 2008. "Envenoming by the Ecuadorian hognose pitviper (*Porthidium arcosae*): an accident report with notes on distribution and ecology". Global Issues in Clinical Toxinology Meeting – Melbourne, Australia.
(2) **Salazar-Valenzuela, D** and A Merino-Viteri. 2007. "Demography of chytrid-infected populations of harlequin frogs (*Atelopus* sp.)". Joint Meeting of Ichthyologists and Herpetologists – Saint Louis, MO, USA.
(1) **Salazar-Valenzuela, D**, C Boada, A Freire-Lascano, and U Kuch. 2004. "The diet of *Bothrops asper* in the Pacific lowlands of Ecuador". Ecuadorian Meeting of Biology – Guayaquil, Ecuador.

WORKSHOPS, COURSES, AND OTHER PROFESSIONAL ACTIVITIES

February 28, 2025	Evaluator Committee for the PhD Qualification Exam of student Weverton dos Santos Azevedo. Institute of Biosciences, University of São Paulo, Brazil.
July 1, 2024-present	Organizing Committee for the First Ecuadorian Congress of Herpetology, Loja, Ecuador (March 27-29, 2025).
October 3-5, 2024	Workshop: "Annual workshop of the Eco-Evo Research Coordination Network Core Team". University of Washington/National Science Foundation. Seattle, Washington, USA.
April 17, 2024	Evaluator Committee for the Public Defense of the Master's thesis of student Gabriel Gonzalez Sonoda. Institute of Biosciences, University of São Paulo, Brazil.
March 4-7, 2024	Symposium "Evaluation of the Research Program on Characterization, Conservation, Restoration, and Sustainable Use of Biodiversity (BIOTA-FAPESP)." São Paulo State Research Support Foundation. São Pedro, São Paulo, Brazil.

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June 7, 2023	Workshop: "Fulbright Alumni y la misión de avanzar la diversidad, la equidad y la inclusión en el Programa Fulbright". Comisión Fulbright del Ecuador. Quito, Ecuador.
September 1-16, 2022	Scientific Consultant. National Geographic documentary on venom of cave-dwelling arachnids and ecology of anaconda snakes, Amazonian Ecuador.
August 23-27, 2022	Workshop: "Building collaborations to investigate urban eco-evolutionary dynamics across the LTER network workshop". Rutgers University/National Science Foundation. Albuquerque, New Mexico, USA.
April 28, 2022	Public Talks on Community Science. "City Nature Challenge: Discover Biodiverse Quito" 2022 (Co-organizer and Speaker). National Biodiversity Institute, Quito, Ecuador.
April 29, 2021	Community Science Webinars and dissemination of results. "City Nature Challenge: Discover Biodiverse Quito (from your home)" 2021 (Co-organizer and Speaker).
November 23-27, 2020	Online course: "Genome assembly and annotation". Center of Genomic Sciences/National Autonomous University of Mexico.
February 13, 2020	Public Talks on Community Science. "City Nature Challenge: Discover Biodiverse Quito" 2020 (Co-organizer and Speaker). National Biodiversity Institute, Quito, Ecuador.
May 31, 2019-August 6, 2020	Certification Program on Higher Education and Research. CIFE Centro Universitario, Mexico (320 hours).
May 10, 2019	Dissemination of results for the international community science event "City Nature Challenge: Discover Biodiverse Quito" 2019 (Co-organizer and Speaker). National Biodiversity Institute, Quito, Ecuador.
February 4-8, 2019	Workshop: "A Multidisciplinary Approach to Investigating Ecuadorian Species and Habitats." Universidad Tecnológica Indoamérica and Living Earth Collaborative, Center for Biodiversity. Quito, Ecuador.
January 20-25, 2019	Course: "Next Generation Sequencing Bioinformatics". Department of Biological Sciences/ The Pontifical Catholic University of Chile, Santiago de Chile, Chile.
June 27-July 9, 2018	Scientific Fellowship in Transcriptomic Analysis of Snake Venom Glands. Instituto Butantan, Secretaria de Salud del Estado de São Paulo. São Paulo, Brazil.
July 3-5, 2017	Course: "Natural Products: Characterization and Applications". Universidad Tecnológica Indoamérica and the Ibero-American Program of Science and Technology for Development (CYTED). Quito, Ecuador.
June 28-30, 2017	IV Cycle of Conferences on Biological Research (Speaker). Universidad Central del Ecuador, Faculty of Biological Sciences, Biology Program. Quito, Ecuador.
March 6- April 19, 2017	Scientific Fellowship in Proteomic Analysis of Snake Venoms. Instituto de Biomedicina de Valencia, Consejo Superior de Investigaciones Científicas. Valencia, Spain.

October 31- November 1, 2016	Biological Monitoring Workshop for the Conservation of Ecuadorian Amphibian Biodiversity and Sustainable Use of Their Genetic Resources" Project (Facilitator). Ministerio del Ambiente, Fundación Otonga, GEF, and UNDP. Quito, Ecuador.
June 16-18, 2016	Course: "Amazonian Dangerous Fauna: Health Risks for Humans in the Field and in the Laboratory" (Speaker). Fundación Mamíferos y Conservación / Pontificia Universidad Católica del Ecuador, Quito, Ecuador.
May 18-19, 2015	Course: "New methods in Phylogenomics and Metagenomics". Department of Ecology and Evolutionary Biology/University of Michigan, USA.
January 23-24, 2014	Workshop: "Research Perspectives on Snakebite Envenoming in Ecuador" (Organizer and Speaker). Pontificia Universidad Católica del Ecuador. Quito, Ecuador.
January 13-14, 2014	Course: "Estimating species trees workshop". Department of Statistics/The Ohio State University, USA.
January 5-16, 2014	Scientific Fellowship in Proteomic and Biological Activity Analysis of Snake Venoms. Clodomiro Picado Institute, University of Costa Rica. San José, Costa Rica.
June 22-24, 2011	Course: "Scientific Project Writing". Institute of Tropical Diseases / Ohio University and Center for Research in Infectious and Chronic Diseases / Pontificia Universidad Católica del Ecuador.
June 22-26, 2009	Course: "Species distribution modelling and its application in conservation, ecology, and evolution". Fundación Yasuní/Pontificia Universidad Católica del Ecuador.
February 25- March 4, 2005	Course: "Standardized Inventory and Monitoring Techniques for the Andean Tropical Region." Conservation International and Darwin Initiative. Tarapoto, Peru.
February 18-23, 2005	Course: "Care, maintenance, and conservation of natural history collections". Kansas University and Pontificia Universidad Católica del Ecuador.
January 17-18, 2005	Course: "Lucid 3 Program: Tools for Identification and Diagnosis." Center for Biological Information Technology, University of Queensland and Pontificia Universidad Católica del Ecuador.
April 2-4, 2004	Course: "Introduction to the Global Positioning System." UCODEP and Pontificia Universidad Católica del Ecuador, Nueva Loja, Ecuador.
June 5-6, 2003	Course: "Management, Design, and Setup of Exhibits and Environmental Education with Amphibians." QCAZ Museum of Zoology, Pontificia Universidad Católica del Ecuador. Quito, Ecuador.
September 2002-March 2003	Volunteer at the Quito Vivarium, Gustavo Orcés Herpetological Foundation. Quito, Ecuador.
March 2000-July 2001	Volunteer in the Mammalogy and Herpetology Laboratories at the Museum of Zoology, Pontificia Universidad Católica del Ecuador. Quito, Ecuador.
December 14, 2000	Course: "Introduction to Environmental Legislation." Foundation for Biological Research in Ecuador and the Association of Biological Sciences Students of the Pontificia Universidad Católica del Ecuador. Quito, Ecuador.
August 4- September 5, 2000	Volunteer at the Department of Research and Marine Conservation. Charles Darwin Research Station. Puerto Ayora, Santa Cruz Island, Galápagos, Ecuador.

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LANGUAGES

Spanish	Native speaker
English	Fluent. Certificate of competency, The Univesity of Michigan, and graduate studies in the United States
French	Fluent. Certificate DELF-B2, Alliance Française, Quito, Ecuador
Portuguese	Fluent. Six online level courses with language tutor and one year as a Visiting Researcher at Butantan Institute, São Paulo, Brazil.

PROFESSIONAL SERVICE AND MEMBERSHIPS

2015	Reviewer for scientific projects submitted to Comisión Nacional de Investigación Científica y Tecnológica (CONICYT). Fondo Nacional de Desarrollo Científico y Tecnológico (FONDECYT). Government of Chile.
2010-present	Co-editor of the Encyclopedia of Reptiles of Ecuador (ReptiliaWebEcuador), The Pontifical Catholic University of Ecuador: https://bioweb.bio/faunaweb/reptiliaweb/
2019-present	International Society of Toxinology
2015-present	Society for the Study of Evolution, USA.
2013-2016	Society for the Study of Amphibians and Reptiles, USA.

Manuscript reviewer for the following scientific journals: Molecular Ecology, Molecular Phylogenetics and Evolution, PLOS Neglected Tropical Diseases, Toxicon, Journal of Proteomics, Zootaxa, Revista de Biología Tropical, Biotropica, Neotropical Biodiversity, The Anatomical Record, Amphibian and Reptile Conservation, Revista Ecuatoriana de Medicina y Ciencias Biológicas, Revista Mexicana de Biodiversidad.

PERSONAL REFERENCES

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