

CURRICULUM VITAE

PERSONAL INFORMATION:

Name: Elena

Last name: Quintero Tinoco

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Place and Date of Birth: Cumaná, Sucre State, Venezuela. March 29, 1987.

Marital Status: Single.

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ACADEMIC TRAINING:

- 1) Secondary education: High School of Sciences. **1999 – 2003.**
- 2) Social Work, Universidad de Oriente, Núcleo de Sucre, School of Social Sciences, Cumaná, Venezuela. **2004-2007.** Level reached 3rd semester.
- 3) Degree in Biology, Universidad de Oriente, Núcleo Sucre, School of Sciences, Cumaná, Venezuela. **2009 - 2014.**
- 4) Student of the Postgraduate (Magister) in Biodiversity and Conservation Program at the Universidad Federal do Maranhão, São Luis, Maranhão, Brazil. **2020 – Currently.**

Ichthyology, biodiversity, taxonomy, biology and ecology (marine, estuarine and freshwater species). Chemical oceanography.

PROFESSIONAL PROFILE:

Degree in Biology from the Universidad de Oriente, Cumaná, Sucre State, Venezuela (2014). Based on a taxonomic, morphological, biogeographic and ecological approach, she has research experience in the areas of biodiversity, taxonomy, biology and ecology applied to the study of bone and cartilaginous fishes, both from native species of freshwater, as well as from estuaries and marine ecosystems of Venezuela and adjacent areas, as introduced species (exotic and transferred) of these groups. In addition, she has experience in Oceanography, with emphasis in Chemical Oceanography, acting mainly on the determination of contamination levels in coastal marine sediments. Since 2014 she has been an Associated Researcher with the Ichthyology Section of the Collection of Fishes of the Natural History Museum La Salle (MHNLS), Fundación La Salle de Ciencias Naturales (FLASA), Caracas, Venezuela. Since 2020 she has been a student at the Masters level in Postgraduate Studies in Biodiversity and Conservation at the Universidad Federal de Maranhão, São Luis, Maranhão Brazil. She is currently part of the group of bone fishes and freshwater rays from South America, for the Freshwater Biodiversity Unit (FBU) and the Species Survival Commission (SSC) Shark Specialist Group (SSG) of the International Union for Conservation of Nature (IUCN). From this last group of work, she is a representative of Venezuela.

SCIENTIFIC AND ACADEMIC ACTIVITIES:

Complementary Training

2020. Basic principles of geometric morphometry and application in studies with rays. (Hourly load: 8h). Group of elasmobranch studies do Paraná, GEEP, Curitiba Brazil.

2019. Plastics and Microplastics in marine environments. An introduction to his study. (Hourly load: 16h). Dictated by the Instituto Oceanográfico de Venezuela, within the framework of the XII Congreso Venezolano de Ecología. November 14 and 15, 2019.

2016. IV advanced course in shark biology, fishery and conservation. (53 theoretical-practical academic hours) (From November 28 to December 3), dictated by: Universidad del Magdalena, Santa Marta, Colombia, Universidad de Bogotá Jorge Tadeo Lozano Consultor para Latinoamérica de Pew Charitable Trusts and the Centro para la Investigación de Tiburones (CIT). Held at the Guayacán Ecological Research Center Estado Sucre, Venezuela

2015. Specialized course on Biodiversity and Ecology of Estuarine Fish. (Hourly load: 24h). (July 16-18) Complementary activity of the 1era Jornada Venezolana de Ictiología, held from July 20 to 23, 2015, Cumaná, Estado Sucre. Fundación La Salle de Ciencias Naturales, Instituto Oceanográfico de Venezuela, Universidad de Oriente, Cumaná, Venezuela.

II Foro Taller de Acuicultura del Estado Sucre. Imparted by La Fundación para el Desarrollo de la Ciencia y la Tecnología, Instituto Nacional de Agricultura, Instituto nacional de pesca y acuicultura, Fundación para la Investigación y Desarrollo de la Acuicultura en el Estado Sucre, Instituto Oceanográfico de Venezuela, Universidad de Oriente. (April 14-16 2015).

2014. Theoretical-practical workshop: "Fish production in closed systems". Universidad Centro Occidental Lisandro Alvarado, Facultad de Agronomía, Estación de Piscicultura. (Hourly load: 24h) .Yaritagua, Yaracuy State Venezuela. (April 09 - 11).

2013. Forum on "Evolutionary Biology: Why and how to teach it. Duration eleven hours (11) as a participant. Departamento de Biología de la Universidad de Oriente, Cumaná (May 13 -14).

RESEARCH PROJECTS:

2020- Current. Project participant: Analysis of the Conservation status of bony fish from Venezuela, Colombia, Guyana, Suriname, French Guyana and North of Brazil.

Freshwater Biodiversity Specialists Group, Freshwater Biodiversity Unit (FBU), International Union for Conservation of Nature (IUCN: Reino Unido, USA), Instituto de Recursos Biológicos Alexander von Humboldt, Universidad Nacional de Colombia, Universidad del Tolima, World Wildlife Fund (Colombia), Auburn University, Mikolji Corporation (USA), Universidad Central de Venezuela, Universidad Centroccidental Lisandro Alvarado, Universidad Experimental de los Llanos Ezequiel Zamora, Universidad de Los Andes, Instituto Nacional de Investigaciones Agrícolas, Ingeoambiente, Instituto Venezolano de Investigaciones Científicas, Universidad de Oriente, y Museo de Historia Natural La Salle (MHNLS), Fundación La Salle de Ciencias Naturales (Venezuela).

2020- Current. Project participant: Analysis of the Conservation Status of Freshwater Rays (Potamotrygonidae) of South America.

The Species Survival Commission (SSC), Shark Specialist Group (SSG) of the International Union for Conservation of Nature (IUCN). (IUCN: United Kingdom, Canadá, Brazil). Fundación Squalus, Wild Life Conservation Society Instituto de Recursos Biológicos Alexander von Humboldt (Colombia), University of Toronto (Canadá), Universidade Estadual Paulista Julio de Mesquita Filho, Universidade Federal do São Paulo, Universidade Federal do Paraná, Universidade Federal do Rio Grande, Universidade Federal do Ceará, Universidade Federal Rural de Pernambuco, Instituto de Pesquisas Científicas e Tecnológicas do Amapá, Instituto Federal de Educação, Ciência e Tecnologia (Brasil), Universidad Nacional del Litoral - Consejo Nacional de Investigaciones Científicas y Técnicas (Argentina) Universidad de Antofagasta (Chile), Escuela Politécnica Nacional del Ecuador, Wild Life Conservation Society (Ecuador), Wildlife Conservation Society (Bolivia), y Museo de Historia Natural La Salle (MHNLS), Fundación La Salle de Ciencias Naturales (Venezuela).

2019 – Current. Taxonomic review of the genus *Diplobatis* (Chondrichthyes, Torpediniformes, Narcinidae) from the North coast of South America.

Description: Through the use of taxonomy techniques and methods, integrating traditional and geometric morphometry, in analysis of external and internal morphology, as well as chromatic analysis, a review will be made of the species of electric stripes of the genus *Diplobatis*. These species come from the coasts of Colombia, Venezuela, Las Guianas and Brazil, in the Caribbean Sea and the Atlantic Ocean. It is expected to re-evaluate the current taxonomic status of the species throughout their range. Populations with natural morphology and with teratogenic deformities will be evaluated.

Status: **In progress**

Members of the Museo de Historia Natural La Salle, Universidad Católica Andrés Bello, and Universidade Federal do Maranhão Brazil.

2018 – Current. Taxonomic review of cat sharks of the genus *Scyliorhinus* (Chondrichthyes, Carchariniformes, Scyliorhinidae) from Venezuela and Brazil.

Description: Through the use of techniques and methods of taxonomy and integrative systematics (morphological, chromatic and molecular / genetic analysis), a review will be made of the species of deep cat sharks, of the genus *Scyliorhinus*, from the coasts of Venezuela (Caribbean Sea) and Brazil (Atlantic Ocean). It is expected to re-validate species that were previously synonymised and to re-evaluate the current taxonomic status of the species from the coasts of Brazil.

Museo de Historia Natural La Salle, Venezuela, Universidad Federal de Pará, Universidad Federal de Maranhão Brazil.

2018 – Current. Analysis of the biodiversity and current distribution of the mixines (MYXINI) and cartilaginous fishes (CHONDRICHTHYES) of Venezuela and adjacent areas

Description: In a first evaluation, through an exhaustive bibliographic review, of ichthyological collections and information databases, as well as unpublished data, it is expected to inventory the total species of hagfish, chimeras, sharks and rays from the coasts of Venezuela and adjacent marine areas, as well as continental waters (hydrographic

basins). These are grouped into two Classes (Mixine and Chondrichthyes), two Subclasses and Divisions, Orders, Families and genera that will be established, as well as which are the most diverse and important groups of sharks, rays, chimeras and mixines. It is expected to be able to quantify the species according to the use of the habitat (ecological residence). They will also be evaluated where the highest species richness is found in terms of the ichthyoregion and hydrographic basin. The first historical records, species that require confirmation and those of probable presence in the study area will be analyzed. Finally, the foundations will be laid for the ecological and / or biogeographic analysis of the distribution of the species, results that are expected to be presented in a second evaluation.

Status: In progress; Natureza: Research.

Museo de Historia Natural La Salle, Venezuela; Paläontologisches Institut und Museum, Universität Zürich, Switzerland.

Current- Taxonomic review and ecological distribution of the genera *Microphis* and *Pseudophallus* (Syngnathiformes: Syngnathidae) on the North coast of South America

Description: The main objective of this research is to delimit, characterize and morphologically describe the estuarine species of cornetic pipefish of the genera *Microphis* and *Pseudophallus* in the North coast of South America and the Greater Caribbean, as well as to understand the ecological or biogeographic factors that influence its distribution. This with a view to creating a model that can be applied to the study of other species of the family or of other groups of fish that present the same ecological habits or similar geographic distribution patterns.

Members of the Museo de Historia Natural La Salle, Venezuela, and Universidad Federal do Maranhão Brazil.

2012 – 2013 Evaluation of the presence, distribution, possible genetic morphological changes and social impact of the invasive species *Perna viridis* in north-eastern Venezuela.

Description: To determine the genetic variability of the green mussel *Perna viridis* from the northeast coast of Venezuela. Status: Concluded.

Members: Instituto Oceanográfico de Venezuela, Departamento de Biología, Universidad de Oriente.

BIBLIOGRAPHIC PRODUCTION

Abstracts published in conference proceedings:

1. LASSO-ALCALA, O; QUINTERO-T. E; BRICENO, J. D. Biodiversidad actual y distribución de los myxines (MYXINI) y peces cartilaginosos (CHONDRICHTHYES) de Venezuela y áreas adyacentes. In: XII Congreso Venezolano de Ecología, 2019, Caracas. Memorias del XII Congreso Venezolano de Ictiología, 2019.
2. LASSO-ALCALA, O; ROBERTSON, R; QUINTERO-T. E. La damisela real, *Neopomacentrus cyanomos* (Bleeker 1856): una nueva especie introducida en las costas de Venezuela. In: XII Congreso Venezolano de Ecología, 2019, Caracas. Memorias del XII Congreso Venezolano de Ictiología, 2019.
3. RIVAS, G., O. LASSO-ALCALÁ, E. QUINTERO-T, F. BISBAL, E. CAMARGO Y M. JOWERS. 2019. Catálogo de los reptiles introducidos y establecidos en Venezuela. XII Congreso Venezolano de Ecología, Caracas, Venezuela. (Resumen).
4. LASSO-ALCALA, O; QUINTERO-T. E; BRICENO, J. D. 2019. Biodiversidad y Distribución de los mixines (MIXINI) y peces cartilaginosos (CONDRICTHYES) de Venezuela y Áreas adyacentes (Conferencia Magistral. 10 de septiembre de 2019). Primer Congreso Internacional sobre Tiburones y Rayas de la Amazonía. São Luís, Maranhão, Brasil. 8 al 12 de Septiembre de 2019.
5. LASSO-ALCALA, O; QUINTERO-T. E; 2019. Estado del conocimiento sobre la biodiversidad y conservación de los Condrictios en las Guayanas Primer Congreso Internacional sobre Tiburones y Rayas de la Amazonía. São Luís, Maranhão, Brasil. 8 al 12 de Septiembre de 2019.

6. RIVAS, G; LASSO-ALCALA, O.; BISBAL, F.; CAMARGO, E.; QUINTERO-T. E; JOWERS, M. Catálogo actual de los reptiles introducidos en Venezuela. In: V Congreso Colombiano de Zoología, II Simposio Colombiano Sobre Invasiones Biológicas, 2018, Bogotá. LIBRO DE RESÚMENES V CONGRESO COLOMBIANO DE ZOOLOGÍA. Bogotá: Asociación Colombiana de Zoología ACZ, 2018. p. 8-517.
7. FEITOSA, L; LASSO-ALCALA, O; QUINTERO-T. E; RINCON, G; NUNES, J. L. S. Biodiversity and Conservation status of Chondrichthyes from the Northern Coast of South America. In: Sharks International Conference, 2018, João Pessoa. Abstract Book Sharks International Conference. João Pessoa: Editora UFPB, 2018. p. 1-468.
8. Lasso-Alcalá, O., R. Tavares, C. Baldwin, R. Robertson, P. Miloslavich and E. Quintero. 2018. New records of the longnose caribbean chimera *Neoharriotta carri* (HOLOCEPHALI, Chimaeriformes) in the Caribbean Sea. Sharks International Conference. SBEEL / SQUALUS Symposium, Joao Pessoa, Brasil. (Resumen).
9. LASSO-ALCALA, O; TAVARES, R; QUINTERO-T. E; AGUDO, E; BRETT, C; BENAVENTE, W; RAMIREZ, H. Evolución de la estructura de tallas del pez león (*Pterois volitans*), en las costas de Venezuela. In: IX Congreso de la Biodiversidad Caribeña, 2017, Santo Domingo. IX Congreso de la Biodiversidad Caribeña. Santo Domingo: Universidad Autónoma de Santo Domingo, 2017. p. 1-198.
10. SALAZAR S; PÉREZ J; ALFONSÍ C; QUINTERO- T. E; VERA M. La variabilidad genética del mejillón verde *Perna viridis* de la costa Nororiental Venezuela. X Congreso científico Universidad de Oriente. Ciudad Bolívar, 4 al 6 de noviembre de 2014. (Co-autor Ponencia).
11. QUINTERO-T. E.; FERMÍN, I; ASAEDA, D; DE LA CRUZ, R; RODRÍGUEZ, G. Determinación de hidrocarburos totales y alifáticos en sedimentos superficiales de

la Región marina-costera de Puertos de Sucre, Cumaná, Venezuela. 2do Segundo Congreso Venezolano de Ciencia, Tecnología e Innovación. Caracas, Venezuela. Noviembre de 2013.

12. ASAEDA, D; FERMÍN, I; QUINTERO-T. E; SENIOR, W; DE LA CRUZ, R. 2013. Estudio de Cd, Pb y Hg en sedimentos superficiales de la Región marino-costera de Puertos de Sucre, Cumaná, Venezuela. 2do Segundo Congreso Venezolano de Ciencia, Tecnología e Innovación. Caracas, Venezuela. (Co-autor Ponencia).

13. QUINTERO-T. E; FERMÍN, I; DE LA CRUZ, R; RODRÍGUEZ, G. 2013. Hidrocarburos en Región marina-costera de Puertos de Sucre, Cumaná, Venezuela. X Congreso Venezolano de Ecología. Mérida, Venezuela.: 545 (Autor y presentador Ponencia).

PARTICIPATION IN SCIENTIFIC ACTIVITIES:

EXPERIENCE IN THE FIELD AND LABORATORY

2015. Field trip for the capture of the new species for science *Trichomycterus* sp. (Siluriformes), Calderas region, Río Santo Domingo sub-basin, Andes-Orinocense foothills, Barinas State, Venezuela. Museo de Historia Natural La Salle (Fundación La Salle de Ciencias Naturales). (January 2015).

2014-2015. Pasantía laboral en la Sección de Ictiología y colección de peces en el Museo de Historia Natural La Salle (Fundación La Salle de Ciencias Naturales). Caracas, Venezuela. Septiembre- diciembre de 2014, Enero-Diciembre 2015.

2014 Member of the scientific work team, (Taking Biological Data of the *Pterois volitans* species) during the first national lionfish fishing validation, carried out on Tortuga Island, Federal Dependencies, Venezuela. Sponsored by the Ministerio Popular para el Turismo,

TopFish Venezuela, Museo de Historia Natural La Salle (Fundación La Salle de Ciencias Naturales), Farallón Divers, Club de Submarinismo de la Universidad Simón Bolívar-CESUSIBO, Fundación Costa de Venezuela. (February 21-23).

2014. Field trip for the capture of introduced species (*Oreochromis mossambicus*), Laguna El Copey, Carupano, Sucre State. This field activity was carried out within the framework of the Project: "Species Introduced in Coastal Marine Ecosystems of Venezuela", developed by the Museo de Historia Natural La Salle (Fundación La Salle de Ciencias Naturales). (April 2014).

2014. Member of the scientific work team, (Taking Biological Data of the *Pterois volitans* species) during the second national lionfish fishing validation, carried out in Bahía de Cata, Aragua state, Venezuela. Sponsored by Instituto socialista de la Pesca y Acuicultura, Ministerio Popular para el Turismo, Museo de Historia Natural La Salle (Fundación La Salle de Ciencias Naturales), Fundación Costa de Venezuela, Farallón Divers, Universidad Simón Bolívar (June 6- 7).

2013. Participant in the community project: Transfer of knowledge and technology to communities for the sustainable cultivation of commercially important fish (pagüara: *Chaetodipterus faber*), directed by Fundación para la Investigación y Desarrollo de la Acuicultura en el Estado Sucre, together with the Instituto de Educación Avanzada. Mochima, Guaracayal, La Fragata. Sucre state, Venezuela.

2012-2013. Research Assistant in the PPEI-FONACIT Project code 2011001102 entitled: "Evaluation of the presence, distribution, possible genetic morphological changes and social impact of the invasive species *Perna viridis* in the Venezuelan north-east". Laboratorio de Genética, Instituto Oceanográfico de Venezuela.

2009-2012. Technical assistant in the Laboratorio de Genética (Escuela de Ciencias, Universidad de Oriente). For the development of methodological procedures for the survey

of strains and cultures of *Drosophila melanogaster* (fruit fly) in order to obtain the different phenotypic varieties of these organisms.

INTERNATIONAL EXPERIENCE:

- 1) Researcher participating in biodiversity workshops to determine the Health of the Orinoco basin in Colombia. Fish richness analysis of the los ríos Inírida, Guaviare, Atabapo y Orinoco. Ministerio de Ambiente y Desarrollo Sostenible de Colombia, Instituto Alexander von Humboldt, Fundación Omacha, Universidad de Maryland y World Wide Fund for Nature- WWF Colombia, from January to July 2016.
- 2) Project participant: Analysis of the Conservation status of bony fish from Venezuela, Colombia, Guyana, Suriname, French Guyana and North of Brazil. Freshwater Biodiversity Specialists Group, Freshwater Biodiversity Unit (FBU), International Union for Conservation of Nature (IUCN: Reino Unido, USA), Instituto de Recursos Biológicos Alexander von Humboldt, Universidad Nacional de Colombia, Universidad del Tolima, World Wildlife Fund (Colombia), Auburn University, Mikolji Corporation (USA), Universidad Central de Venezuela, Universidad Centroccidental Lisandro Alvarado, Universidad Experimental de los Llanos Ezequiel Zamora, Universidad de Los Andes, Instituto Nacional de Investigaciones Agrícolas, Ingeambiente, Instituto Venezolano de Investigaciones Científicas, Universidad de Oriente, y Museo de Historia Natural La Salle (MHNLS), Fundación La Salle de Ciencias Naturales (Venezuela). 2020- Current.
- 3) Project participant: Analysis of the Conservation Status of Freshwater Rays (Potamotrygonidae) of South America. The Species Survival Commission (SSC), Shark Specialist Group (SSG) of the International Union for Conservation of Nature (IUCN). (IUCN: United Kingdom, Switzerland, Canadá, Brazil). Fundación Squalus, Wild Life Conservation Society Instituto de Recursos Biológicos Alexander von Humboldt (Colombia), University of Toronto (Canadá), Universidade Estadual Paulista Julio de Mesquita Filho, Universidade Federal do São Paulo, Universidade Federal do Paraná, Universidade Federal do Rio Grande, Universidade Federal do Ceará, Universidade Federal Rural de Pernambuco,

Instituto de Pesquisas Científicas e Tecnológicas do Amapá, Instituto Federal de Educação, Ciência e Tecnologia (Brasil), Universidad Nacional del Litoral - Consejo Nacional de Investigaciones Científicas y Técnicas (Argentina) Universidad de Antofagasta (Chile), Escuela Politécnica Nacional del Ecuador, Wild Life Conservation Society (Ecuador), Wildlife Conservation Society (Bolivia), y Museo de Historia Natural La Salle (MHNLS), Fundación La Salle de Ciencias Naturales (Venezuela). 2021- Current.