

Curriculum Vitae

Eduardo Villalobos Segura

PhD

Address

Department of Palaeontology
Faculty of Earth Science, Geography and Astronomy
University of Vienna
Althanstraße 14
1090 Vienna, Austria
Tel: ++43-1-4277-535 28
e-mail: elasmo177@gmail.com
<http://www.evomorg.org>

Personal profile

Paleoichthyologist with a particular interest in phylogenetic analysis enjoys teaching, being part of a team, field experience, and learning new knowledge and techniques.

Academic profile

Most of my academic effort has focused on analysing and understanding the phylogenetic relations of extinct and extant elasmobranchs, the main subject of my PhD and master studies. I carried out my PhD studies in the Planetary sciences department at Birkbeck college in the United Kingdom under the direction of Charlie Underwood. My graduate and master's degrees in biology are from the Universidad Nacional Autónoma de México (UNAM), during which I was a student at the Colección Nacional de Peces (CNPEIBUNAM) and the Colección Nacional de Paleontología (CNP) under the direction of Héctor Espinosa Pérez and Jesús Alvarado Ortega. Parallel to my graduate and master studies, I collaborated with the curation, identification, taxonomic cataloguing and database management of deep-sea fishes collected from the Gulf of Mexico and the constant identification of sweet water and marine fishes collected from different parts of Mexico.

Areas of specialization

- Ichthyology (taxonomy, curation of specimens, systematics, anatomy of sharks, rays, and bony fishes).
- Paleontology (phylogenetic analysis with extant and extinct taxa).
- Systematics (Parsimony and Bayesian analyses with morphological data).

University education and qualifications

- **February 29 (2020):** PhD in Earth Sciences at the Birkbeck College, University of London. **Research affiliation:** Department of Earth and Planetary Sciences.
- **January 18 (2016):** Master in biological sciences at the Universidad Nacional Autónoma de México [UNAM]. **Research affiliation:** Instituto de Geología/ Instituto de Biología.
- **December 06 (2012):** Biology bachelor's degree at the Universidad Nacional Autónoma de México [UNAM]. **Research affiliation:** Facultad de Ciencias and Colección Nacional de Peces, Universidad Nacional Autónoma de México (UNAM).

Languages

<i>Spanish</i>	Mother tongue
<i>English</i>	fluent (C1 IELTS level (2016), with three years living in London, UK and a PhD thesis written in English, regular use)
<i>Portuguese</i>	(3 years of courses, fluent)
<i>Italian</i>	(2 years in high school)

Technical skills

TNT, Mesquite, WinClada, PAUP, R, MrBayes, Word, Excel, Power Point, Adobe Illustrator, Specify, Morpho J, TPSdig, TPSutil.

First author publications

- **2016** New record of *Zameus squamulosus* (Chondrichthyes: Squaliformes: Somniosidae) in the Southern Gulf of Mexico. Marine Biodiversity Records, 9(1), 61. <https://doi.org/10.1186/s41200-016-0047-0>
- **2019** The first three-dimensional fossils of Cretaceous sclerorhynchid sawfish: *Asflapristis cristadentis* gen. et sp. nov., and implications for the phylogenetic relations of the Sclerorhynchoidei (Chondrichthyes). Journal of Systematic Palaeontology, 1-24. doi.org/10.1080/14772019.2019.1578832
- **2020** Radiation and Divergence Times of Batoidea. Journal of Vertebrate Paleontology. <https://doi.org/10.1080/02724634.2020.1777147>.
- **2021** The first skeletal record of the Cretaceous enigmatic sawfish genus *Ptychotrygon* (Chondrichthyes: Batoidea) from the Turonian (Cretaceous) of Morocco. Papers in Palaeontology. <https://doi.org/10.1002/spp2.1287>.
- **2021** The skeletal remains of the euryhaline sclerorhynchid batoid †*Onchopristis* (Elasmobranchii, Batoidea) from the 'mid' Cretaceous and its palaeontological implications. Zoological Journal of the Linnean Society. zlaa166. <https://doi.org/10.1093/zoolinnea/zlaa166>

Co-authored publications

- **2012** New record of *Sladenia shaefersi* (Teleostei: Lophiidae) in the western North Atlantic. Marine Biodiversity Records Vol. 6.
doi:10.1017/S1755267212001170
- **2014** New record of *Malthopsis gnoma* (Lophiiformes: Ogcocephalidae) in the southern Gulf of Mexico. Marine Biodiversity Records, 7, E19.
doi:10.1017/S1755267214000104
- **2018** A new early cretaceous guitarfish (Chondrichthyes: Batoidea) from the Tlayúa Formation, Puebla, Mexico. Journal of South American Earth Sciences, 90, 155-161. <https://doi.org/10.1016/j.jsames.2018.12.005>
- **2021** A new Cenomanian acanthomorph fish from the El Chango quarry (Chiapas, south-eastern Mexico) and its implications for the early diversification and evolutionary trends of acanthopterygians. Papers in Paleontology.
<https://doi.org/10.1002/spp2.1359>

Papers Reviewed

I have participated as a reviewer for the following international journals: Journal of Systematic Palaeontology, and Acta Ichthyologica et Piscatoria.

Scientific Works (non-peer-reviewed)

- **March 02 (2020), PhD Thesis:** Review of sclerorhynchoids (Chondrichthyes: Batoidea) and its phylogenetic and taxonomic implications. uk.bl.ethos.809813
- **January 18 (2016), Master's Thesis:** Análisis morfológico del género *Zapteryx* (Rhinobatidae: Batoidea) y sus implicaciones en la evolución de los peces guitarra (**Eng. Title:** Morphological analysis of the genus *Zapteryx* (Rhinobatidae: Batoidea) and its implication on the evolution of the guitar fishes).
<http://132.248.9.195/ptd2015/noviembre/0738611/Index.html>
- **February 21 (2013) Graduate Thesis:** Revisión morfológica y actualización de la distribución geográfica de los peces guitarra (Elasmobranchii: Batoidea: Rhinobatidae) en México (**Eng. Title:** Morphological revision and geographical actualisation of the geographical distribution of the guitar fishes (Elasmobranchii: Batoidea: Rhinobatidae) in Mexico)
<http://132.248.9.195/ptd2012/noviembre/0686171/Index.html>
- **September (2012) Book chapter:** *Trachipterus jacksonensis* (Ramsay, 1881). New record in the Mexican Pacific. Sección I (89-96). En Investigación Ictiológica en México. Temas Selectos en Honor del Dr. José Luis Castro Aguirre.

Funding received: Academic Grants

- **October 02 (2016):** Grant Name: Becas CONACYT al extranjero 2016 segundo periodo (**Eng. Title:** CONACYT Grants for studies abroad second period, 2016). Grant call number: 291114. Grant Number: 440789. Scholarship holder number: 302167. Funding Organization: Consejo Nacional de Ciencia y Tecnología

- [CONACYT]. Amount Awarded: 65166 Pound sterling. Period of Grant Award: 2016-2019. Role on Project: Principal researcher.
 Products: ER PhD degree and four publications (two published (<https://doi.org/10.1080/14772019.2019.1578832>; <https://doi.org/10.1002/spp2.1287>), one in press, one in review) which involve the description of a new genus and species of fossil batoids and the proposal of a new phylogenetic hypothesis for batoids in general.
- **August 01 (2013)**: Grant Name: Convocatoria de becas nacionales 2013 segundo periodo (**Eng. Title**: National grant program second period, 2013). Grant call number: 290817. Grant Number: 371706. Scholarship holder number: 302167. Funding Organization: Consejo Nacional de Ciencia y Tecnología [CONACYT]. Amount Awarded: 227124 Mexican pesos. Period of Grant Award: 2013-2015. Role on Project: Principal researcher.
 Products: ER Master in Biological Sciences degree and one publication (<https://doi.org/10.1186/s41200-016-0047-0>).
 - **August 21 (2013)**: Grant Name: Participan as a student of the Programa de Apoyo a Proyectos de Investigación e Innovación Tecnológica (Papiit). Project Name: Los vertebrados marinos del Mesozoico y Terciario en México (**Eng. Title**: The Mesozoic and Tertiary marine vertebrates in Mexico). Project code: N207314. Amount Awarded: 184804 Mexican pesos Period of Grant: 2013-2016
 Products: Master's degree and the description of the first skeletal of a batoid in México with their later publication of the new genus and species ([0.1016/j.jsames.2018.12.005](https://doi.org/10.1016/j.jsames.2018.12.005)).
 - **June 16 (2014)**: Research stay grant, Grant name: Programa de Apoyo a los Estudios de Posgrado [PAEP 2015] Funding Organization: Coordinación de Estudios de Posgrado [CEP], Universidad Nacional Autónoma de México [UNAM]. Amount Awarded: 15000 Mexican pesos Period of Grant October 1-31, (2014).
 Products: Master's degree and the description of the first skeletal of a batoid in México with their later publication ([0.1016/j.jsames.2018.12.005](https://doi.org/10.1016/j.jsames.2018.12.005)) and the revision of several Brazilian fossil batoids under the direction of Dr Paulo M. Brito (Universidade do Estado do Rio de Janeiro).

Supervising and mentoring activities.

Teaching activities

- **2021**: Assistant professor (postgraduate course). Temas selectos: Buenas Prácticas para Reconocer y Clasificar la Biodiversidad [Selected themes: Good practices for Biodiversity's identification and classification]. Period (February 15-currently)
- **2018**: Assistant professor (graduate course). Vertebrate Palaeontology (Department of Earth and Planetary Sciences, Birkbeck College, University of London). Period: January 11-March 22 (2018).
- **2015**: Advisor in an early researcher program at highschool level. Program: Iniciación a la Investigación desde el Bachillerato del Instituto de Educación Media

Superior, Dirección General, Dirección Académica [IEMSDF]) (**Eng. Title:** Initiation to research from Baccalaureate, Institution: IEMSDF)

- **2012:** Advisor in an early researcher program at highschool level. Program: Jóvenes hacia la Investigación de la Dirección General de Divulgación de la Ciencia, Universidad Nacional Autónoma de México) (**Eng. Title:** Youth towards Research). Period: June 4-29 (2012).
- **2010:** Advisor in an early researcher program at highschool level. Program: Jóvenes hacia la Investigación de la Dirección General de Divulgación de la Ciencia, Universidad Nacional Autónoma de México) (**Eng. Title:** Youth towards Research). Period: June 07-July 02 (2010).

Participation in international conferences

- **June 7-9 (2018):** Progressive palaeontology, Manchester, United Kingdom, Poster, Phylogenetic relation of Sclerorhynchids.
- **July 6-10 (2016):** Joint Meeting of Ichthyologist and Herpetologist, New Orleans, USA, Talk Morphological analysis of the genus *Zapteryx* (Rhinobatidae: Batoidea) and its phylogenetic implications.
- **November 5-8 (2014):** 15vo. Congreso Nacional y 3er. Simposio Latinoamericano de Ictiología, Morelia, Mexico (15th National Meeting and 3th Latinoamerican symposium of Ichthyology)Talk: Análisis comparativo del condrosqueleto de los géneros *Zapteryx* and *Rhinobatos* en México (**Eng. Title:** Comparative analysis of the chondroskeleton of the genera *Zapteryx* and *Rhinobatos* in México).
- **September 23-27 (2013):** 8vo. Congreso latinoamericano de paleontología y 13vo. Congreso nacional de paleontología (8th Latinoamerican Palaeontology Meeting and 13th Mexican Palaeontology Meeting Guanajuato, Mexico). Talk: A Guitarfish (Chondrichthyes: Batoidea) from the Tlayua quarry México.
- **October 29-November 02 (2012):** 13vo, Congreso Nacional de Ictiología y 1er. Simposio Latinoamericano de Ictiología, San Cristobal de las Casas, Mexico (2012) (13th National Ichthyology Meeting and First Latinoamerican symposium of Ichthyology). Talk: Revisión Morfológica y Actualización de la Distribución Geográfica de los Peces Guitarra (Elasmobranchii: Batoidea: Rhinobatidae) en México) (**Eng. Title:** Morphological Review and Actualization of the Geographical Distribution of the Guitar Fishes (Elasmobranchii: Batoidea: Rhinobatidae) in Mexico
- **October 29-November 02 (2012):** 13vo, Congreso Nacional de Ictiología y 1er. Simposio Latinoamericano de Ictiología, San Cristobal de las Casas, Mexico (2012) (13th National Ichthyology Meeting and First Latinoamerican symposium of Ichthyology) Poster: Nuevo registro de Género y Especie: *Sladenia shaefersi* (Teleostei: Lophiida) para el Golfo de México (**Eng. Title:** New record of the Genera and Species: *Sladenia shaefersi* (Teleostei: Lophiidae) for the Gulf of Mexico.

- **November 8-12 (2011):** 43vo. Congreso Internacional del Desert Fishes Council, Hermosillo México (43th International Meeting of Desert Fishes Council). Poster: Current Outlook of the Churince, Cuatro Ciénegas, Coahuila.

Participation in national conferences

- **September 24-26 (2012):** 1er. Congreso de Morfometría, Oaxaca, México (First Congreso de Morfometría). Talk: Revisión morfológica de los peces guitarra (Elasmobranchii: Batoidea: Rhinobatidae) en el Pacífico Mexicano (**Eng. Title:** Morphological review of the guitar fishes (Elasmobranchii: Batoidea: Rhinobatidae) in the Mexican Pacific).
- **November 14-16 (2011):** Reunion Nacional de la Red Temática del Código de Barras de la vida (MEXBOL) Ciudad de México, México (National Meeting of the Tematic Net of the Barcode of Life). Poster: Current Outlook of the Churince, Cuatro Ciénegas, Coahuila.