

Douglas Ricardo Rodríguez Olarte

Curriculum Vitae

Regional Fish Collection, Museum of Natural Sciences UCLA. Department of Biological Sciences.
Faculty of Agronomy. Núcleo Héctor Ochoa Zuleta. Agua Viva, Cabudare.
Universidad Centroccidental Lisandro Alvarado, UCLA. Lara, Venezuela.

Birth: 23/12/1965 - Caracas/DC - Venezuela.

Address: Carrera 21, entre 5 y 6. Residencias Los Pinos. Torre B, N° B-71.
Urbanización del Este. Barquisimeto. Municipio Iribaren. Lara.
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Web of Science ResearcherID A-6698-2017

ORCID <https://orcid.org/0000-0003-4940-9205>

<https://scholar.google.co.ve/citations?user=qMSNgfUAAAAJ&hl=es>

https://www.researchgate.net/profile/Douglas_Rodriguez_Olarte

<http://www.redalyc.org/autor.oa?id=15429>



Professional preparation:

- 2009 Ph.D. Conservation Biology. *Cum Laude*. Universidad Complutense de Madrid, UCM, Spain.
Dissertation Title: Biogeography and Conservation of ichthyofauna in drainages of Western Caribbean of Venezuela.
- 1996 MSc. Renewable Natural Resources, UNELLEZ, Venezuela.
- 1993 Engineer of Renewable Natural Resources (Environmental Engineering). UNELLEZ, Venezuela.

Professional profile (research and interests):

Experience: More than 25 years in research, teaching and extension on the continental hydrobiological resources, mainly fluvial freshwater ecosystems and ichthyofauna with orientation in taxonomy, biogeography and ecology, as well as biomonitoring and conservation, aquatic ecosystem integrity, evaluation of environmental impacts.

Major interests: biogeography, integrity and monitoring of hydrobiological resources. Ichthyology and aquatic ecology. Biomonitoring of biotic integrity. IUCN threat categories. Red Book of the Venezuelan fauna. Research in protected areas. Environmental impact assessment in aquatic ecosystems, populations and communities for control, use and conservation. Social perception of ecosystem services and values. Photography, videography, essay and history of science and nature. See [here](#).

Participations: Coordinator and researcher in national and international projects. Participation in numerous expeditions and assessments (aquatic ecosystems, rivers, aquatic insects, fish and riparian forests) in the several drainages (Maracaibo, Caribbean, Orinoco and Amazonas (Caquetá-Colombia), Atlantic and Mediterranean drainages in Spain.

Awards, scholarships, distinctions and similar:

- 2018 Orden 22 de septiembre. Unique class. Universidad Centroccidental Lisandro Alvarado, UCLA. Venezuela. 24-09-2018.
- 2018 Order Lisandro Alvarado 1ra Class. Universidad Centroccidental Lisandro Alvarado, UCLA. Venezuela. 19-09-2018.

- 2018 Award for Environmental Conservation and Divulcation "Waraira Repano (Cerro El Ávila)"
2018. Publication mention (Serie: River at Risk of Venezuela). República Bolivariana de Venezuela. Distrito Capital. Concejo del Municipio Libertador.
- 2016 2001, 2012. Patron of graduate promotions. Faculty of Agronomy. Universidad Centroccidental Lisandro Alvarado, UCLA. Venezuela.
- 2017 2010, 2013, 2015. Master class to graduate promotions. Faculty of Agronomy. Universidad Centroccidental Lisandro Alvarado, UCLA. Venezuela.

Professional appointments:

- 1997 - 2021. Professor Titular with exclusive dedication. Universidad Centro Occidental Lisandro Alvarado, UCLA.
- 2014 - 2021. Director (e) of the Museum of Natural Sciences, UCLA.
- 2010 - 2021. Coordinator of the Research Unit in Biological Sciences, UCLA.

Courses taught at UCLA and other institutions:

- 2000 - 2021. **Ecology** (INA714). Coordinator. Collaborative
- 2010 - 2021. **Photography of Science and Nature** (Elective). Coordinator. Exclusive
- 2002 - 2021. **Management of Wild and Aquatic Fauna** (Elective). Coordinator. Exclusive
- 1998 - 2000. **Fish culture** (Elective). Collaborative. Fish Culture Station UCLA.
- Invited Professor. Undergraduate and graduate programs in biological sciences: Universidad de los Llanos (UNELLEZ), Venezuelan Institute of Scientific Research (IVIC, Venezuela), University of the Amazon (UDEA, Colombia), National University of Colombia (ICN, UNC), Cauca University (UNICAUCA), Colombia. Universidad de los Andes (UDLA, Ecuador).
Invited professor in interinstitutional photography classes.

Research and extension projects:

- 2021 Co-investigator in inter-institutional project "Promoting citizen networks for human rights and peace: towards the reconstruction of democratic institutions, universities and the environment in Venezuela". Observatorio de Universidades y Ambiente, ONG Aula Abierta.
- 2020 -2021. Expert consultant Geospatial analysis and environmental conflicts on natural resources and ecosystems services. Observatorio de Ecología Política de Venezuela.
- 2020 -2021. Expert consultant of global IUCN Red List assessments of freshwater fish native to the Orinoco and South America. Project 'IUCN Red List of Threatened Species and Toyota'. International Union for Conservation of Nature and Natural Resources. 238 species of freshwater fish.
- 2021 Co-investigator in inter-institutional project: Technical assistance and capacity building for the development of actions aimed at the preservation and recovery of environmental values and the biodiversity of coastal and marine ecosystems affected by episodes related to the oil spill. Venezuela. PNUD CI/114/MINEC/2020.
- 2016 - 2019. Responsible for Venezuela in the project "Iberoamerican Network for the formulation and application of evaluation of the ecological status, management and restoration of rivers IBEPECOR". Project of the Ibero-American Science and Technology Program for Development CYTED. Ref. P415RT0143)
- 2016 - 2021. Coordinator and responsible. Conservation status of the coastal rivers and their biotas in the Western Caribbean biogeographic province of Venezuela. CDCHT-UCLA. IAG-2017-6. Developing.
- 2016 - 2021. Coordinator and responsible. Editorial series: Hydrobiological resources of Venezuela. Volumes of "Rivers at Risk of Venezuela". In developing.

Scientific, technological, artistic and cultural production:

- **Publications in scientific journals: Web of Science (WoS)**
- 2021 Torremorell, A., Hegoburu, C., Brandimarte, A., Costa Rodrigues, E., Pompêo, M., Cardoso da Silva, S., Moschini-Carlos, V., Caputo, L., Fierro, P., Mojica, I., Pantoja, A., Donato, J. C., Jiménez-Pardo, P., Molinero, J., Ríos-Touma, B., Goyenola, G., Iglesias, C., López-Rodríguez, A., Meerhoff, M., Pacheco, J. P., Teixeira de Mello, F., **Rodríguez-Olarte, D.**, Barrios Gómez,

- M., Montoya, J. V., López-Doval, J. 2020 & Navarro, E. [Present and future threats for the ecological quality management of South American freshwater ecosystems](#). *Inland Waters*. DOI: 10.1080/20442041.2019.1608115
- 2021 Rivas, G. A., Lasso-Alcalá, O. M., **Rodríguez-Olarte, D.**, De Freitas, M., Murphy, J. C., Pizzigalli, C., ... & Jowers, M. J. (2021). [Biogeographical patterns of amphibians and reptiles in the northernmost coastal montane complex of South America](#). *Plos one*, 16(3), e0246829.
- 2020 Jiménez-Prado, P., Vásquez, F., **Rodríguez-Olarte, D.** & Taphorn, D. 2020. [Efectos de la especie invasora *Poecilia gillii* \(Cyprinodontiformes: Poeciliidae\) sobre *Pseudopoecilia fria* en ríos costeros de la región del Chocó, Ecuador](#). *Revista de Biología Tropical* 68(1): 122-138. **In press**
- 2018 **Rodríguez-Olarte, D.** Taphorn, D. C., Agudelo-Zamora, H. 2018. [Length–Weight relationships of fishes from western Caribbean freshwater drainages of Venezuela](#). *Journal of Applied Ichthyology*. 34(6): 1–5. doi.org/10.1111/ jai.13839.
- 2016 Rojas, H., Sánchez, D. Lew, D., Ferrer-Paris, J., Señaris, J., Velasquez, G., **Rodríguez-Olarte, D.**, Díaz, C. 2016. [Design and testing of a replicable, scalable capacity-building model for species conservation](#). *Oryx*, 50(4): 579–582 doi: 10.1017/S0030605316000843. 2016. (co-author)
- 2016 García, S. E., Barrios, G. M., **Rodríguez-Olarte, D.**, C. Marrero. 2016. [Integración de escalas, gradientes ambientales e índices en la evaluación del estado de conservación de los ríos en la costa oriental del Lago de Maracaibo, Venezuela](#). *Interciencia*, 41(5): 305-311. (co-author, correspondence author) <http://cort.as/-SQAO>
- 2015 Barrios, M, **Rodríguez-Olarte, D.** & E. García. 2016. [Índice de integridad de los ecosistemas fluviales con base a las comunidades de insectos acuáticos en el río Misoa, cuenca del lago de Maracaibo](#). *Entomotropica*. 30(8): 69-83. (co-author) <http://cort.as/-SQAV>
- 2014 **Rodríguez-Olarte, D.** & M. Barrios. 2014. [Gradientes, estabilidad y estado de conservación de peces en la cuenca alta del río Turbio, vertiente andina del Orinoco, Venezuela](#). *Revista de Biología Tropical* 62(3): 987-996. DOI: 10.15517/rbt.v62i3.12133 (author)
- 2013 Barrios, M. & **D. Rodríguez-Olarte**. [Hábitat fluvial e insectos indicadores del estado de conservación en la cuenca alta del río Turbio, en el estado Lara, Venezuela](#). *Bioagro*. 25(3): 151-160. (co-author, y correspondence author) <http://cort.as/-SQB->
- 2011 **Rodríguez-Olarte, D.**, Taphorn, D. C., Lobon-Cervia, J. 2011. [Do protected areas conserve Neotropical freshwater fishes? A case study of a biogeographic province in Venezuela](#). *Animal Biodiversity and Conservation*. 34(2): 273-285 (author). <http://cort.as/-SQEt>
- 2010 Taphorn, D. C., J. W. Armbruster & **D. Rodríguez-Olarte**. 2010. [Ancistrus falconensis n. sp. y A. gymnorhynchus Kner \(Siluriformes: Loricariidae\) from central Venezuelan Caribbean coastal streams](#). *Zootaxa* 2345: 19-32. DOI: 10.11646/zootaxa.2345.1.2 (co-author).
- **Publications in scientific journals: Scielo, Scopus, Latindex**
- 2021 **Rodríguez-Olarte, D.**, Rodríguez, S. T., Marrero, C. J. 2021. La inadvertida presencia de las minerías de arena en los ríos de Venezuela. *Acta Biológica Venezolánica*. 41(1): 35-45.
- 2019 **Rodríguez-Olarte, D.**, Araujo, A., Bianchi, G., Boher, S., Castillo, O., Cordero, Y., Escudero, J., Fernández, A., García, J. E., Lasso-Alcalá, O., Martínez, M., Marrero, C., Mendoza, M., Morón-Zambrano, V., Rodríguez, P., Segnini, S., Seijas, A. E. & Velásquez, J. 2019. Los ríos en riesgo de Venezuela y la ruta para su conservación. *Ecotrópicos*. 31:1-8. e0008 ([access](#))
- 2019 **Rodríguez-Olarte, D.** 2019. Editorial: Ríos, estresores y conservación para una Venezuela en crisis. *Acta Biológica Venezolánica*. 39(2): i-iii
- 2017 Marrero C., y **Rodríguez-Olarte, D.** Humedales asociados a sistemas palustres en ámbitos de planicie de los llanos del Orinoco y peniplanicies del Ventuari-Casiquiare, estado Amazonas, Venezuela. *BioLlania* Special Edition. 15: 616-624. (co-author)
- **Books**
- 2020 **Rodríguez-Olarte, D.**, Barrios, M., Caputo, L., Fierro, P., Jiménez-Prado, P., Navarro, E., Macchi, P., Mojica, J. I., Molinero, J., Montoya, J. V., Pantoja, A., Pompêo, M., Ríos-Touma, B., Teixeira de Mello, F., Tobón, F., Torremorell, A., Villalba, A., Villamarín, C. 2020. Criterios para la evaluación de estresores y parámetros en la estimación del estado ecológico de ríos en

- Suramérica. Serie Publicaciones Especiales. Universidad Centroccidental Lisandro Alvarado (UCLA). Barquisimeto, Lara. Venezuela. ISBN: 978-980-320-146-3. ([access](#))
- 2014 Marrero, C., **Rodríguez-Olarte, D.** Ríos de morichal de la Orinoquia venezolana. Modeladores del paisaje, soportes de biodiversidad, flujo geohídrico e identidad cultural. Editorial Académica Española, Verlag, Alemania. ISBN: 978-659-02375-0. (co-author)

● **Chapters in books**

- 2020 **Rodríguez-Olarte, D.** Una hoja de ruta para la conservación de los ríos. Introducción (pp: 9-10). En: Rodríguez-Olarte, D. (Editor). Ríos en riesgo de Venezuela. Volumen 3. Colección Recursos hidrobiológicos de Venezuela. Universidad Centroccidental Lisandro Alvarado (UCLA). Barquisimeto, Lara. Venezuela. (author).
- 2019 Arismendi, I., Penaluna, B., Gomez-Uchida, D., Di Prinzio, C., **Rodríguez-Olarte, D.**, Carvajal-Vallejos, F., Mojica, J., Mazzoni, R., Cussac, V., Maldonado, M., Pellegrini, E., Zeballos, A., Villalba, A., Van Damme, P., Córdova, L., Iglesias-Rios, R., Cañas-Rojas, D., Cañas-Merino, M., Benavente, J., Núñez-Flores, M., Musleh, S. & Savana, P. 2019. Chapter 10 – Trouts and Chars of South America In: Diversity and Status of Trouts and Chars of the World (Jeffrey L. Kershner, Jack E. Williams, Robert E. Gresswell, and Javier Lobon-Cervia, Editors). American Fisheries Society. (co-author).
- 2018 **Rodríguez-Olarte, D.**, Marrero, C. y Taphorn, D. C. Los ríos al Mar Caribe y Golfo de Venezuela. Capítulo 4 (pp: 71-102). En: Rodríguez-Olarte, D. (Editor). Ríos en riesgo de Venezuela. Volumen 2. Colección Recursos hidrobiológicos de Venezuela. Universidad Centroccidental Lisandro Alvarado (UCLA). Barquisimeto, Lara. Venezuela. (author).
- 2017 Marrero C., y **Rodríguez-Olarte, D.** Los humedales costeros venezolanos en los escenarios de cambios climáticos: vulnerabilidad, perspectivas y tendencias. p. 461-476. En: Botello A. V., Villanueva, S., Gutiérrez, J. y Rojas Galaviz J. L. (eds.). Vulnerabilidad de las zonas costeras de Latinoamérica al cambio climático. UJAT, UNAM, UAC. 476 p. (co-author).
- 2017 **Rodríguez-Olarte, D.** 2017. La paradoja de los ríos. Introducción (pp: 9-12). En: Rodríguez-Olarte, D. (Editor). Ríos en riesgo de Venezuela. Volumen 1. Colección Recursos hidrobiológicos de Venezuela. Universidad Centroccidental Lisandro Alvarado (UCLA). Barquisimeto, Lara. Venezuela. (author).
- 2017 **Rodríguez-Olarte, D.**, Barrios, M., Marrero, C. y Marcó, L. 2017. Río Turbio: un síndrome urbano en la vertiente andina del Orinoco. Capítulo 3 (pp: 59-74). En: Rodríguez-Olarte, D. (Editor). Ríos en riesgo de Venezuela. Volumen 1. Colección Recursos hidrobiológicos de Venezuela. Universidad Centroccidental Lisandro Alvarado (UCLA). Barquisimeto, Lara. Venezuela. (author).

● **Popular publications and similar:**

- 2021 Rodríguez-Olarte, D. 2021. Áreas Protegidas de Venezuela: Una puesta al día. Observatorio de Ecología Política de Venezuela. Caracas. <https://bit.ly/2ROi3xN>
- 2021 Rodríguez-Olarte, D. 2021. Embalses de Venezuela: Una puesta al día. Observatorio de Ecología Política de Venezuela. Caracas. <https://bit.ly/2ROi3xN>
- 2019 Rodríguez-Olarte, D. 2019. Comunicaciones fluviales y lacustres (1988-2018). Diccionario de Historia de Venezuela, ed. 2019 (versión en línea). Fundación Empresas Polar. Caracas. In press
- 2018 Rodríguez-Olarte, D. 2018. Naturaleza, vida y muerte del río Turbio. Principia. UCLA, v.40: 25-33. (author).

● **Editions:**

- 2020 Rodríguez-Olarte, D. (Editor). 2020. Criterios para la evaluación de estresores y parámetros en la estimación del estado ecológico de ríos en Suramérica. Serie Publicaciones Especiales. Universidad Centroccidental Lisandro Alvarado (UCLA). Barquisimeto, Lara. Venezuela. <https://bit.ly/2C7qnAQ>
- 2020 Rodríguez-Olarte, D. (Editor). 2020. Ríos en riesgo de Venezuela. Volumen 3. Colección Recursos hidrobiológicos de Venezuela. Universidad Centroccidental Lisandro Alvarado (UCLA). Barquisimeto, Lara. Venezuela. <https://bit.ly/3glYjZn>

- 2015 Rodríguez-Olarte, D. 2015. Associated Editor: Fishes. En: J. P. Rodríguez, A. García-Rawlins y F. Rojas-Suárez (eds.) Libro Rojo de la Fauna Venezolana. Cuarta edición. Provita y Fundación Empresas Polar, Caracas, Venezuela. <http://cort.as/-SQ6a>
- 2015 Rodríguez-Olarte, D. 2015. Associated Editor: Fishes. Project WikiEVA (Especies Venezolanas Amenazadas). PROVITA, Shell de Venezuela. <http://cort.as/-SQ6q>

- **Software and web pages:**

- 2011 Rodríguez-Olarte, D. La Colección Regional de Peces. 2011 (update 2017). Link: www.ucla.edu.ve/museopeces/

Contributed scientific talks and presentations (53 total since 1991):

- 56 Rodríguez-Olarte, D. 2021. Recognizing the stressors that determine the loss of coastal rivers and their fishes in Venezuela In: Symposium Sustaining Long Term Ecological Research in Venezuela: opportunities and challenges. Virtual Meeting of the Association for Tropical Biology and Conservation. ATBC. July 21-23, 2021.
- 55 Rodríguez-Olarte, D., Marrero, C., Rodríguez, S. 2021. La inadvertida expansión de la minería de gravas arenaras en los ríos de Venezuela. "III Simposio: Humedales, Agua, Biodiversidad". Caracas 18 y 19 de febrero de 2021. Instituto de Zoología Tropical, Universidad Central de Venezuela. Grupo Humedales de Venezuela.
- 54 Rodríguez-Olarte, D. 2020. Ríos y peces de Venezuela: integridad, situación y previsiones. Simposio "Cambios y retos ambientales en Venezuela". "LXX Convención Anual de AsoVAC "on line". Noviembre 2020. Asociación Venezolana para el Avance de la Ciencia.
- 53 Rodríguez-Olarte, D., Marrero, C., Segnini, S., Rincón, J. E. Cressa, C., Barrios, M. & Montoya, J., V. Monitoreo y conservación de ríos en Venezuela: situación actual, necesidades y escenarios. "Simposio Monitoreo y conservación de ríos en Venezuela: situación y previsiones". 01 y 02 de agosto de 2019. UNELLEZ, Mesa de Cavacas. Portuguesa. Venezuela. UCLA-UNELLEZ-IBEPECOR
- 51 Rodríguez-Olarte, D., Marrero, C., Barrios, M., Rincón, J., Pérez, B., Segnini, S., Montoya, J. V. Advances and routes on the biomonitoring in Venezuela: links and scales with the landscape. VIII Congreso Argentino de Limnología. 17-20 September 2018. Luján. Argentina.
- 50 Rodríguez-Olarte, D., Escalona, R., Barrios, M. The anthropic frontier predicts the gradients in habitats and biotas in Andean drainages of the Orinoco, Venezuela. Congreso AQUATROP: Ecosistemas Acuáticos Tropicales en el Antropoceno. 23-26 July, 2018, Quito, Ecuador.

Undergraduate students (advisor):

- 18 Deforestation in Venezuela during the 20th century: a systematic review. Domingo Brens. Special Work Degree, Faculty of Agronomy, UCLA. December 2019. Advisor.
- 17 Impacts of mining on fluvial ecosystems in Venezuela: a systematic review. Angel Salazar. Special Undergraduate Work, Faculty of Agronomy, UCLA. December 2019. Advisor.
- 16 Indicators and indices to determine condition and integrity in rivers of Venezuela: A systematic review. Ricardo Castillo. Special Undergraduate Work, Faculty of Agronomy, UCLA. December 2019. Advisor.
- 15 Evaluation of the land use and its relationship with the conservation state of rivers on the northern slopes of the Turbio river drainage, Orinoco drainage. Andrea Linares Mendoza. Special Undergraduate Work, Faculty of Agronomy, UCLA. January 2018. Advisor.

Graduate students (advisor and supervisory committees):

- 12 Environmental effects of the variation of land cover and its relationship with river environments in the sub-basin of the Curarigua River. Ing. Pedro Rodríguez. Master thesis, Universidad Yacambú. 2018. Advisor.
- 11 Sustainable agriculture evidenced through socio-ecological resilience. Case: Andean piedmont of the Lara state. Ing. Yuraní Godoy. Ph.D. thesis. Universidad Simón Bolívar. 2018. Supervisory committee.

- 10 Structure of the Siluriform (Actinopterygii: Siluriformes) assemblage in the floodplain of the La Piedra canal, Arauca river. Lic. Gabriela Echevarría. Ph.D. thesis. Instituto Venezolano de Investigaciones Científicas IVIC. 2016. Supervisory committee.
- 9 Systematics and phylogenetic relationships of the subfamily of catfish Stegophilinae parasites (Siluriformes, Trichomycteridae). Lic. Carlos Do Nascimento. Ph.D. Thesis, Universidad Central de Venezuela. 2012. Supervisory committee.

Other types of production, participation and organization:

- 11 Coordinator and co-instructor Course: Evaluation and Biomonitoring of River Ecosystems. Master School of Continental Hydrobiological Resources. University of Cauca, UNICAUCA. Popayán, Colombia 16-24 November 2019.
- 10 Coordinator Symposium Monitoring and conservation of rivers in Venezuela: situation and previsions" (with UNELLEZ). 01-02 august 2019. UNELLEZ, Mesa de Cavacas. Portuguesa. Venezuela. UCLA-UNELLEZ-IBEPECOR.
- 9 Instructor Course: "Bioecology and conservation of continental ichthyofauna" 21-22 July 2018. Congress AQUATROP: Aquatic tropical ecosystems in the Anthropocene. 23-26 July 2018. Quito, Ecuador.
- 8 Instructor Workshop: The biomonitoring of hydrobiological resources. Institute of Natural Sciences. Faculty of Biology. National University of Colombia. Bogotá, November 22-24, 2017.
- 7 Coordinator and instructor: Biomonitoring of the continental hydrobiological resources: rivers and fish. Doctoral school in Natural Sciences and Sustainable Development. University of the Amazon, UDLA. Florence, Colombia 09-14 June 2016.
- 6 Coordinator and instructor: Special course: Biogeography, ecology, integrity and conservation of the continental ichthyofauna. Permanent training program in techniques of sampling and data collection in the field, management of biological collections and information management. Ecology Center, IVIC-UCLA. April 27 - May 05. 2016.

Additional Skills:

Multivariate statistics.
Fish collecting techniques (seining, electrofishing, gill netting, larval fish collecting).
Aquatic and terrestrial habitat collecting techniques.
Museum curation techniques (database, collection management).
Subaquatic videography (equipment and image process).
Landscape and conservation photography.
Essay and scientific literature.