

CURRICULUM VITAE

Full Name: Enrique Reynaldo de la Cruz

Birthday: February 14th of 1985

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Professional degree: Biologist and Master in Biotechnology. Graduation: July 2009 and April 2013.

Research in marine biologist and professor in University of Holguin.

Main Researches and Professional Activities. Period 2014 -2022:

- 1- Monitoring of *Pterois volitans* on the beaches of tourist use in the province of Holguin.
- 2- Study of the freshwater fishes of Holguin, Cuba.
- 3- Analysis of the environmental status of the coral reef for tourism use in the province of Holguin.
- 4- Environmental Rehabilitation Plan of the Mangrove Forest in the province of Holguin.
- 5- Analysis of marine water quality and polluting sources in the coastal zone of tourist use in the province of Holguin.
- 6- Physical, chemical and microbiological characterization of the waters in the Caletones Ecological Reserve
- 7- Characterization of the water in the beaches of the province of Holguin, Cuba.
- 8- Trophic preferences of *Pterois volitans* (Scorpaenidae) in the coastal area of Holguin, Cuba.
- 9- Co-occurrence of freshwater fishes in the rivers of Gibara, Holguin, Cuba.
- 10- Biodiversity of freshwater fish in Resbaladero.
- 11- Characterization of the Terrestrial Biodiversity of the Province of Holguin.
- 12- Bases for the sustainable management of protected coastal areas in the province of Holguin.
- 13- Environmental recognition of Yuraguanal beach.

Participation in Projects of Applied and Basic Investigation:

- 1- Evaluation of the risks of biological diversity in key ecosystems of the Mayari, Gibara and Moa in the province of Holguin. Step II. 2014.
- 2- Study of the flora in extinction of the province of Holguin (2014).
- 3- Management of exotic and invasive species in Cuba. (2013-2016).
- 4- Economic valuation of marine - coastal ecosystems in protected areas and for tourist use in the province of Holguin (2018-2020).
- 5- Reduction of the vulnerability of natural ecosystems before climate change, in the rural town of Resbaladero (2019).
- 6- Bases for the sustainable management of protected coastal areas in the province of Holguin (2020-2022)
- 7- National Project: Biodiversity of the Ramón de Antillas.

Publications:

Enrique Reynaldo, Antonio Vega, Frank A. Ocaña, Elier Cordova and Alejandro Fernández. Environmental Evaluation of damage caused by the stranding of the ship Ola on the Coast of Gibara, Holguin, Cuba. *Journal Carta Cuba*. Vol. 6, No. 1, 2014.

Antonio VEGA, **Enrique REYNALDO**, Alejandro FERNÁNDEZ, José CRÚZ, Frank OCAÑA and Elier CÓRDOVA. Abundance and distribution of the Lionfish *Pterois volitans* (Teleostei: Scorpaenidae) in the tourist coast of Holguin, Cuba. *SOLENODON*. 12: 72-83, 2015.

Fernández, A, A. Vega, D. Maceira, **E. Reynaldo**, C. R. Tejeda, E. Córdova and H. Pavón. 2015. State of the Asian Alga *Corbicula fluminea* (Bivalvia: Corbiculidae) in the Oriental region of Cuba. In: X International Convention on Environment and Development. V Congress on Management of Ecosystem and Biodiversity. Palaces of the Conventions of Havana, Cuba. CD: ISBN: 978-959-300-073-4.

Enrique Reynaldo de la Cruz, Antonio Vega Torres, Alejandro Fernández Velásquez and Elier Córdova García. COMPOSITION AND DISTRIBUTION OF THE FRESHWATER FISHES OF GIBARA, HOLGUIN, CUBA. X MarCuba Sea Science Congress. Integration of Sciences for the Management of Marine Resources. Palace of the Conventions of Havana. Cuba. 16 to 20 November 2015 CD: Memorias ISBN: 978-959-300-080-2.

Antonio Vega Torres, **Enrique Reynaldo de la Cruz**, José Cruz Ramírez, Alejandro Fernández Velásquez, Pedro Cruz Ramírez, Elier Córdova García and Frank Ocaña Borrego. MANAGEMENT OF PEZ LEÓN (TELEOSTEI: SCORPAENIDAE: *PTEROIS VOLITANS*) IN THE HOLGUIN TOURIST AREA: RESULTS ACHIEVED AND NEW CHALLENGES. X MarCuba Sea Science Congress. Integration of Sciences for the Management of Marine Resources. Palace of the Conventions of Havana. Cuba. 16 to 20 November 2015 CD: Memorias ISBN: 978-959-300-080-2.

Enrique Reynaldo de la Cruz, Antonio Vega Torre, Alejandro Fernández Velásquez, DISTRIBUTION AND SIMILARITY OF THE FRESHWATER FISHES OF GIBARA, HOLGUIN, CUBA. *Novitates Caribaeae*. Vol. 10, 71-86. 2016.

Enrique Reynaldo de la Cruz and Antonio Vega Torre. Marines fishes in the contemplative diver sites of Holguin. *XI Ibero-American Congress of thought*. ISBN: 978-959-7200-15-4. October 27, 2016.

Antonio VEGA TORRES, **Enrique REYNALDO DE LA CRUZ***, Alejandro FERNÁNDEZ VELÁZQUEZ, Frank OCAÑA BORREGO y Norberto GUERRA GUERRA. Freshwater fish from Holguin, Cuba. *Poeyana. Journal Cuban of zoology*. 504: 33-37. June 2017.

Enrique Reynaldo de la Cruz, Antonio Vega Torres, Alejandro Fernández Velazquéz, José Cruz Ramírez, Elier Córdova García y Pedro Cruz Ramírez. Distribution and abundance of the lionfish *Pterois volitans* in the touristic coastal zone of Holguín, Cuba. *Novitates Caribaeae*. Vol.12: 63-73. January 2018.

Enrique Reynaldo de la Cruz, Antonio Vega Torres, María Eugenia Vega Cendejas, Alejandro Fernández Velazquéz, José Cruz Ramírez, Elier Córdova García y Pedro Cruz Ramírez. TROPHIC PREFERENCES OF *PTEROIS VOLITANS* (SCORPAENIDAE) IN THE COASTAL AREA OF HOLGUIN, CUBA. *Novitates Caribaeae*. Vol.13: 1-12, January 2019.

Enrique Reynaldo de la Cruz, Antonio Vega Torres, Alejandro Fernández Velazquéz, Frank Ocaña Borrego, María Eugenia Vega Cendejas, Elier Córdova García, José Cruz Ramírez y Pedro Cruz Ramírez. *Pez león Pterois volitans* (Scorpaenidae) en el litoral de Holguín, Cuba. Editorial Académica Española. International Book Market Service Ltd., member of OmniScriptum Publishing Group 17 Meldrum Street, Beau Bassin 71504, Mauritius. Brivibas gatve 197, LV-1039, Riga, Letonia, Unión Europea. ISBN: 978-613-9-46777-8. 176 pp. 16 de abril de 2019. www.eae-publishing.com.

Enrique Reynaldo de la Cruz, María Eugenia Vega Cendejas, Sheila Rodríguez Machado, Franklin García Fernández y Antonio Vega Torres. Diversity and structure of the ichthyologic communities in the diving sites in Holguin (Cuba). *Transylvanian Review of Systematical and Ecological Research. The Wetlands Diversity*. 22(3): 57-82. December 2020.

Enrique Reynaldo de la Cruz, María Eugenia Vega Cendejas, Antonio Vega Torres y Elier Córdova García. Co-occurrence of fluvial fishes in the rivers of Gibara, Holguin, Cuba. *Novitates Caribaeae*. 17:15-31. January 2021.

Enrique Reynaldo de la Cruz, David F. Hernández Marreo, Jacobo Urbino Rodríguez y Roberto Ayra Cedeño. Diversity of freshwater fish in Resbaladero, Holguín, Cuba. *Novitates Caribaeae*. 19:43-61. January 2022.

Participation in Scientific events:

Enrique Reynaldo de la Cruz. XIV Exhibition forgers and future. Base Event. Center of Research and Environmental and Technology Services (CISAT-CITMA). Holguin. Cuba. Environmental Evaluation of damage caused by the stranding of the ship Ola on the Coast of Gibara, Holguin. (May, 2014).

Enrique Reynaldo de la Cruz. XVI Forum Science and Technology. Center for Research and Environmental and Technological Services (CISAT-CITMA). Holguin. Cuba. Management of the lion fish (*Pterois volitans*) in the tourist coast of Holguin: results achieved and pending issues. (June, 2014).

Antonio Vega Torres, **Enrique Reynaldo de la Cruz**, José Antonio Cruz Ramírez, Alejandro Fernández Velázquez, Pedro Luís Cruz Ramírez, Elier Córdova García. XX Forum Science and Technology. Award for Relevant Scientific Result. Management of the lionfish (*Pterois volitans*) in the tourist coast of Holguin: results achieved and pending issues. (January 2015).

Enrique Reynaldo de la Cruz, Antonio Vega Torres and José Antonio Cruz Ramírez. Coloquio (José Juan Arrom). Iberoamerican House. Holguin. Cuba. Aquatic Biodiversity of the Sinkholes Blue Tank. (April 2015).

Alejandro Fernández, Antonio Vega, David Maceira, **Enrique Reynaldo**, Carmen R. Tejeda, Elier Córdova and Héctor Pavón. X International Convention on Environment and Development. V Congress on Management of Ecosystem and Biodiversity. Palaces of the Conventions of Havana, Cuba. State of the Asian Almajá *Corbicula fluminea* (Bivalvia: Corbiculidae) in the Oriental region of Cuba. (July 2015).

Enrique Reynaldo de la Cruz, Antonio Vega Torres, Alejandro Fernández Velázquez and Elier Córdova García. Forum Science and Technology. Base Event. Center of Research and Environmental and Technology Services (CISAT-CITMA). Holguin. Cuba. Freshwater fishes from Gibara. (July 2015).

Antonio Vega Torres, **Enrique Reynaldo de la Cruz**, Alejandro Fernández Velázquez and Elier Córdova García. Base Event. Center of Research and Environmental and Technology Services (CISAT-CITMA). Holguin. Cuba. Management and control of the lionfish (Teleostei: Scorpaenidae: *Pterois volitans*) in the tourist coast of Holguin. (July 2015).

Enrique Reynaldo de la Cruz, Antonio Vega Torres, Alejandro Fernández Velázquez and Elier Córdova García. X MarCuba Sea Science Congress. Integration of Sciences for the Management of Marine Resources. Palace of the Conventions of Havana. Cuba. COMPOSITION AND DISTRIBUTION OF FRESHWATER FISHES OF THE MUNICIPALITY GIBARA, HOLGUÍN, CUBA. (November 2015).

Antonio Vega Torres, **Enrique Reynaldo de la Cruz**, José Cruz Ramírez, Alejandro Fernández Velázquez, Pedro Cruz Ramírez, Elier Córdova García and Frank Ocaña Borrego. X Congress of science of the sea MarCuba. Integration of the Science for the management of the marines founds. Palace of the conventions. Havana. Cuba. Management of the lion fish (*Pterois volitans*) in the tourist coast of Holguin: results achieved and pending issues (November, 2015).

Enrique Reynaldo de la Cruz and Antonio Vega Torres. VI Colloquium (Jóse Juan Arrom) 471 Anniversary of the Holguin Hato Foundation. State of conservation of marines fishes in the coast of tourist use of the province of Holguin. (April 2016).

Enrique Reynaldo de la Cruz, Antonio Vega Torres, Alejandro Fernández Velázquez and Elier Córdova García. Forum of Science and Technology. Base Event. Center for Research and Environmental and Technological Services. Holguin. Cuba. Morphometric, stomach, gonadal and parasitological analyzes of the lion fish (*Pterois volitans*) in the tourist coast of Holguin, 2015. (July 2016).

Enrique Reynaldo de la Cruz and Antonio Vega Torres. XI Ibero-American Congress of Thought. Marines fishes in the contemplative dive sites of Holguin. (October 2016).

Antonio Vega Torres, **Enrique Reynaldo de la Cruz**, Alejandro Fernández Velázquez and Elier Córdova García. XXV Congress for coastal ecosystems (ECOCIE). Center for Research on Coastal Ecosystems (CIEC). LION FISH (*PTEROIS VOLITANS*): PRESENCE AND MANAGEMENT IN THE TOURIST REGION OF HOLGUIN, CUBA. (October 2016).

Enrique Reynaldo de la Cruz. II Workshop on the management of lionfish in the tourist region of Holguin. Center for Research and Environmental and Technological Services (CISAT-CITMA). Holguin. Cuba. Analysis of stomach contents indices and reproductive development of the lionfish in the tourist coast of Holguin. Morphometric analysis of the lionfish in the tourist coast of Holguin. (December 2016).

Enrique Reynaldo de la Cruz, Antonio Vega Torres, Alejandro Fernández Velázquez, Frank Ocaña Borrego y Norberto Guerra Guerra. XI MarCuba. The sciences of today for the coasts and the sea of the future. Palace of the Conventions of Havana. Cuba. Holguin freshwater fish. (October 2018).

Enrique Reynaldo de la Cruz, Antonio Vega Torres, Alejandro Fernández Velázquez, José Cruz Ramírez, Elier Córdova García y Pedro Cruz Ramírez. XI MarCuba. The sciences of today for the coasts and the sea of the future. Palace of the Conventions of Havana. Cuba. Distribution and abundance of the lionfish *Pterois volitans*, in the touristic coastal zone of Holguin, Cuba. (October 2018).

Enrique Reynaldo de la Cruz, María Eugenia Vega Cendejas, Antonio Vega Torres, Elier Córdova García y Norberto Guerra Guerra. Ecology Society and Environment Symposium ECOVIDA 2018. Center for Research and Environmental Services (ECOVIDA). Pinar del Río. Cuba. Co-occurrence of freshwater fishes in the rivers of Gibara, Holguin, Cuba (December 2018).

Enrique Reynaldo de la Cruz, Antonio Vega Torres, María Eugenia Vega Cendejas, Alejandro Fernández Velázquez, José Cruz Ramírez, Elier Córdova García y Pedro Cruz Ramírez. XII International Convention on Environment and Development. For integration and cooperation for sustainability. Palace of the Conventions of Havana. Cuba. Trophic preferences of *Pterois volitans* (SCORPAENIDAE) in the coastal area of Holguin, Cuba. (July 2019).

Enrique Reynaldo de la Cruz, Antonio Vega Torres, Linnet Busutil, Sheila Rodríguez Machado, Franklin García Fernández y Patricia M. Gonzáles Sánchez. XII International Convention on Environment and Development. For integration and cooperation for sustainability. Palace of the Conventions of Havana. Cuba. Health status of diving sites with tourist use in Holguin, Cuba. (July 2021).

Enrique Reynaldo de la Cruz y Roberto Ayra Cedeño. Center for Research and Environmental Services of Holguin (CISAT-CITMA). Holguin, Cuba. Outstanding Technical Scientific Result Award: Water quality and polluting sources in the coastal area of Holguin, Cuba. (October 2021).

Jonathan Pozo Serrano, **Enrique Reynaldo De La Cruz**, David F. Hernández Marrero, Lisbet Guzmán-Alberteris y Antonio Vega Torres. IV International Congress of Marketing, Local Development and Tourism 2021. MARDELTUR. University of Pinar del Río, Pinar del Río, Cuba. Monitoring of the mangrove of Playa Blanca, Holguin, Cuba. (December 2021).

Postgraduate Courses

- 1) National Diploma in Research Design and Statistics.
- 2) Biostatistics and Design of Experiments.
- 3) Analytical Chemistry of the Environment.
- 4) Applied Ecology.
- 5) Advanced Biochemistry.
- 6) Use of fluvial macroinvertebrates as indicators of water quality and eutrophication processes of reservoirs.
- 7) "Open Water Diver" Diving Course.
- 8) English Translation
- 9) Study of the biology and ecology of mollusks of commercial importance.
- 10) Construction and interpretation of phylogenetic trees.
- 11) Advanced Statistics.

- 12) Evaluation of water quality and impacts in rivers, using freshwater macroinvertebrates.
- 13) Diploma in English for changing teaching categories and a minimum of a doctorate. University of Holguin (UHO).

Foreign language

English and Portuguese language (second level B1)