

## Matías Gómez-Corrales

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### EDUCATION

#### 2024 - **Ph.D. Biological and Environmental Sciences**

University of Rhode Island (Kingston, USA)

Dissertation: Cryptic diversity matters for coral conservation

Advisor: Dr. Carlos Prada

#### 2018 - **M.S. Biological Sciences**

Universidad of Los Andes (Bogotá D.C., Colombia)

Thesis: Temporal reproductive isolation uncovers cryptic speciation in a common Caribbean coral. Advisor: Dr. Juan A. Sánchez.

#### 2015 - **B.S. Marine Biology**

Universidad of Bogotá Jorge Tadeo Lozano

Thesis: Foraminifera as bioindicators of water quality on coral reefs

Advisors: Dr. Juan A. Sánchez & Dr. Elvira Alvarado

### PUBLICATIONS

7. **Gómez-Corrales, M.**, González, A., Kamel, B., Medina, M., Levitan, D.R., Knowlton, N., Prada, C. Speciation across depth gradients in reef corals (*in review at Science*).
6. Grupstra, C., **Gómez-Corrales, M.**, ..., Davies, S.W. Rethinking coral biology in light of widespread cryptic diversity (*in review at Nature Ecology & Evolution*).
5. Rodríguez, L., Acosta, A., González-Zapata, F.L., **Gómez-Corrales, M.**, . . ., Sánchez, J.A. *Biodiversity and Conservation* (2023). Conservation at the edge: connectivity and opportunities from non-protected coral reefs close to a national park in the Colombian Caribbean. <https://link.springer.com/article/10.1007/s10531-022-02539-x>
4. **Gómez-Corrales M.**, Prada C. (2020). Cryptic lineages respond differently to coral bleaching. *Molecular Ecology*, 00:1–9. <https://doi.org/10.1111/mec.15631>
3. Sánchez, J. A., **Gómez-Corrales, M\***, Gutierrez-Cala, L., ... Sarmiento, A. (2019). Steady Decline of Corals and Other Benthic Organisms in the SeaFlower Biosphere Reserve (Southwestern

Caribbean). *Frontiers in Marine Science*, 6. <https://doi.org/10.3389/fmars.2019.00073> \*Equal Contribution.

**2. Gómez-Corrales M.**, Flórez E., Hernández L., & Fajardo Medina, G. E. (2017). Post-embryonic development stages of *Tityus columbianus* (Thorell, 1846), (Scorpiones, Buthidae): morphometric estimation approach. *Revista Mutilus*, 7(2), 75-80.

<https://doi.org/10.21789/22561498.1257>

**1. Alonso, D.**, Vides, M., Cedeño, C., Marrugo, M., Henao, A., Sánchez, J. A., ... & **Gómez, M.** (2015). Parque Nacional Natural Corales de Profundidad: descripción de comunidades coralinas y fauna asociada. *Serie de Publicaciones Generales del Invemar*, (88), 20.

## RESEARCH FEATURES

**Gómez-Corrales M.** (2022). Cryptic diversity matters for coral conservation. In: Ormond, R. and Rogers, C (eds), Reef Encounter 51, Vol 37, No. 1, 82.

[http://coralreefs.org/publications/reef\\_encounter\\_51/](http://coralreefs.org/publications/reef_encounter_51/)

Baird A and Harrison H: H1 Connect Recommendation of [**Gómez-Corrales M**, Prada C, Mol Ecol 2020 (:)]. In H1 Connect, 05 Nov 2020; 10.3410/f.738876544.793579612

## FELLOWSHIPS, GRANTS & RESEARCH AWARDS

2022 - Rosemary Grant Advanced Award, Society for the Study of Evolution (3,500).

2022 - Lerner-Gray Grants for Marine Research, American Museum of Natural History (\$2,000).

2022 - Dean's Fellowship Award, University of Rhode Island (\$34,563).

2022 - Early Career Training Award, Coral Bleaching Research Coordination Network (\$2,500).

2021 - Global Marine Initiative Student Research Award Program, The Nature Conservancy & University of Rhode Island (\$10,000).

2020 - Graduate Student Research Award, Society of Systematic Biologists (\$3,000).

2020 - Enhancement of Graduate Research Awards, University of Rhode Island (\$1,000).

2020 - Graduate Fellow, International Coral Reef Society (\$2,500).

2017 - Master's Research Grant, Universidad of Los Andes (\$1,000).

2015 - Master's Scholarship, Universidad of Los Andes (\$7,000).

2014 - Excellence Student Award, Universidad of Bogotá Jorge Tadeo Lozano (\$1,250).

2013 - Excellence Student Award, Universidad of Bogotá Jorge Tadeo Lozano (\$1,250).

## TRAVEL AWARDS

- 2023 - Sea Grant Travel Award, University of Rhode Island Graduate School of Oceanography (\$800).
- 2022 - Dean's Travel Award, University of Rhode Island (\$450).
- 2022 - Annual Grant Fund, University of Rhode Island Graduate Assistants United (\$500).
- 2020 - Species Delimitation Workshop Travel Grant, University of Michigan (\$600).
- 2011 - Conference Registration Grant, III Latin-American Conference of Arachnology (\$250).

## RESEARCH EXPERIENCE

- 2019 - 2024 Graduate Research Assistant, University of Rhode Island.
- 2016 - 2017 Graduate Research Assistant, Universidad of Los Andes, Colombia.
- 2012 - 2013 Junior Researcher in Coral Reef Ecology. Ecoral S.A.S., Colombia.
- 2011 - 2012 Junior Researcher in Marine Invasions. Dr. Michael J. Ahrens, Consultancy.

## TEACHING EXPERIENCE

- 2020 - Zoology of Invertebrates, Laboratory. University of Rhode Island.
- 2018 - Marine Ecology, Laboratory. Universidad of Los Andes, Colombia.
- 2017 - Cellular Biology, Laboratory. Universidad of Los Andes, Colombia.
- 2015 - 2016 Zoology of Invertebrates, Laboratory. Universidad of Los Andes, Colombia.

## ORAL PRESENTATIONS

- 2023 - **Gómez-Corrales, M.**, González, A., Kamel, B., Medina, M., Levitan, D.R., Knowlton, N., Prada, C. Adaptation to light drives speciation in depth-segregated corals via temporal reproductive isolation. Evolution. New Mexico, US.
- 2022 - **Gómez-Corrales, M.**, Medina, M., Prada, C. Speciation in Caribbean Corals. 2<sup>nd</sup> Early Career Researcher Symposium, International Fossil Coral and Reef Society.
- 2022 - **Gómez-Corrales, M.**, Tomás, L., Huntley, N., Iglesias-Prieto, R., Prada, C. Depth matters for coral restoration. Reef Futures, Key Largo, US.
- 2022 - **Gómez-Corrales, M.**, Medina, M., Prada, C. Coral cryptic lineages segregate across a depth cline in the Caribbean. 15<sup>th</sup> International Coral Reef Symposium, Bremen, Germany.
- 2022 - **Gómez-Corrales, M.**, Medina, M., Prada, C. Coral cryptic lineages across a depth cline. 50<sup>th</sup> Benthic Ecology Meeting, Portsmouth, US.

- 2021 - **Gómez-Corrales, M.** & Prada, C. Cryptic lineages matter for coral conservation under climate change. Society for Integrative and Comparative Biology (SICB) meeting, US.
- 2021 - **Gómez-Corrales, M.** & Prada, C. Cryptic lineages matter for coral conservation under climate change. Virtual Stand-Alone Conference of The American Society of Naturalists, US.
- 2017 - **Gómez-Corrales, M.**, Chamberland V, Snowden S, Vermeij M.J., Sánchez J.A. Genomic insights into a sympatric Caribbean brain coral population with two non-overlapping reproductive cohorts, *Diploria labyrinthiformis* (Scleractinia: Mussidae). European Coral Reef Symposium, Oxford, UK.

### POSTER PRESENTATIONS

- 2023 - **Gómez-Corrales, M.**, González, A., Kamel, B., Medina, M., Levitan, D.R., Knowlton, N., Prada, C. Coral cryptic lineages segregate across a depth cline in the Caribbean. Ecological and Evolutionary Genomics Gordon Research Conference. Rhode Island, US.
- 2019 - **Gómez-Corrales, M.**, Chamberland V, Snowden S, Vermeij M.J., Sánchez J.A. Temporal reproductive isolation uncovers cryptic speciation in a common Caribbean brain coral. Evolution. Providence, US.
- 2011 - **Gómez-Corrales, M.**, Flórez, E., Fajardo Medina, G. E. Post-embryonic development stages of *Tityus columbianus* (Thorell, 1846), (Scorpiones, Buthidae): morphometric estimation approach. III Latin American Arachnology Conference. Armenia, Colombia.

### MENTORING

- 2022 - Willow Dunster (University of Rhode Island).
- 2022 - Zack Bergeron (University of Rhode Island).
- 2019 - 2021- Myles Wagner (University of Rhode Island).
- 2017 - Andrés Chilma (Universidad of Los Andes, Colombia).
- 2017 - Diana Vergara (Universidad of Los Andes, Colombia).
- 2016 - Karen Naranjo (Universidad El Bosque, Colombia).

### SERVICE AND OUTREACH

- 2021 - Present Student Chapter – International Coral Reef Society – English/Spanish Translator
- 2020 - Current Biology Journal reviewer (1)
- 2020 - Coral Reefs Journal reviewer (1)
- 2017 - Coral Collection, Universidad of Los Andes, Bogotá D.C.

2011 - Arachnological Collection, Universidad of Bogotá Jorge Tadeo Lozano.

## **PROFESSIONAL SOCIETIES**

2022 - Society for the Study of Evolution

2020 - The Society of Systematic Biologists

2019 - International Coral Reef Society

## **LANGUAGES**

Spanish - Native

English - Proficient

Portuguese - Basic

## **REFERENCES**

Dr. Carlos Prada  
prada@uri.edu

Dr. Juan A. Sánchez  
juansanc@uniandes.edu.co

Dr. Andrea Quattrini  
QuattriniA@si.edu

Dr. Roberto Iglesias-Prieto  
rzi3@psu.edu