

## **RUBEN DARIO PALACIO**

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### **EDUCATION**

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- 2016 - Present      Ph.D. candidate. Environment: Duke University, Durham, NC, USA.  
*(Fulbright PhD scholar 2016-2020)*
- 2014                      B.S., Biology: Universidad Icesi. Cali, Colombia.

### **ADDITIONAL TRAINING:**

- 2018                      Graduate Field course. Tropical Ecology and Conservation. Organization for Tropical Studies (OTS). Costa Rica and Panama.
- 2014                      Online course. Introduction to the Ecology and Strategies for Tropical Forest Restoration in Human-Modified Landscapes. Environmental Leadership Training Initiative (ELTI).
- 2012                      Course. Introduction to techniques, methods and research questions in bioacoustics. Instituto Von Humboldt. Reserva Natural Cañón del Río Claro, Colombia.
- 2012                      Workshop. Functional and phylogenetic diversity: a functional perspective on dry forests. Universidad Icesi- Instituto Humboldt. Cali, Colombia.
- 2011                      Course. Forests and Climate Change: the importance of permanent plots for monitoring. Universidad del Valle. Cali, Colombia.

### **CAREER**

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- 2014 - Present      Founder and Science Director. Fundación Ecotonos.

*Areas of Expertise:* Conservation biology, restoration ecology, ornithology.

*Skills:* Field methods in ecology/biology, Geographic Information Systems (SIG), R programming language, Git and Github, Grant writing, Wilderness First Responder + CPR.

**PUBLICATIONS**

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**PEER-REVIEWED**

- 2020 **Palacio, R.D.**, Negret, P.J., Velásquez-Tibatá, J., & Jacobson, A.P. A data-driven geospatial workflow to improve mapping species distributions and assessing extinction risk under the IUCN Red List. *bioRxiv* 2020.04.27.064477; doi: <https://doi.org/10.1101/2020.04.27.064477> (*manuscript submitted for publication*)
- 2020 Juan Sebastián Moreno, Stephania Sandoval-Arango, **Rubén Darío Palacio**, Nestor Fabio Alzate, Milton Rincón, Karen Gil, Nicolás Gutiérrez Morales, Patricia Harding, Nicolás A Hazzi. Distribution models and spatial analyses provide robust assessments of conservation status of orchid species in Colombia: the case of *Lephanthes mucronata*. *Harvard Papers in Botany* 25(1):111-121
- 2019 **Palacio, R.D.**, Kattan, G.H. & Pimm, S.L. Bird extirpations and community dynamics in an Andean cloud forest over 100 years of land-use change. *Conservation Biology*. doi:10.1111/cobi.13423
- 2018 Hazzi, N.A., Moreno, J.S., Ortiz-Movliav, C., & **Palacio, R.D.** Biogeographic regions and events of isolation and diversification of the endemic biota of the tropical Andes. *Proceedings of the National Academy of Sciences* 115(31):7985-7990.
- 2017 **Palacio, R.D.**, Vidal-Astudillo, V., Cárdenas G., & Luna-Solarte J. Aves del municipio de Santiago de Cali, Valle del Cauca, Colombia. *Biota Colombiana* 18:228–238.
- 2016 **Palacio, R.D.**, Valderrama-Ardila, C. & Kattan, G.H. Generalist Species have a central role in a highly diverse plant frugivore network. *Biotropica*, 48: 349–355.
- 2014 **Palacio, R.D.**, Muñoz-Londoño, A.M. & Mantilla-Meluk, H. Primeros registros de la comadreja de cola larga *Mustela frenata* (Carnivora: Mustelidae) para el departamento del Quindío, Andes Centrales de Colombia. *Revista Biodiversidad Neotropical*. Vol 4 (2): 170-176.

**BOOK CHAPTERS**

- 2019 Prado-Castillo, Luis F., Forero-Medina, G., **Palacio, R.D.**, & Sabogal-González, A. Caso de estudio: Restauración del hábitat de la tortuga montañera *Mesoclemmys dahli*. Pages 451–475 in F. Vargas-Salinas, J. A. Muñoz-Avila, and M. E. Morales-Puentes, editors. *Biología de los anfibios y reptiles en el bosque seco tropical del norte de Colombia*. Editorial UPTC.

- 2016 Diaz-Pulido A., Acevedo-Charry O.A., Hernández-Schmidt M., León-Lleras J.S., Santacruz A.M., Muñoz A., **Palacio R.D.**, Rincón D. y Villareal E. 2016. Aves. Pp 284-342. *En*: Barriga J.C., Diaz-Pulido A., Santamaria M. y H. García. (Eds.) Catálogo de biodiversidad de las regiones andina, pacífica y piedemonte amazónico. Nivel Local. Volumen 2 Tomo 2. Serie Planeación ambiental para la conservación de la biodiversidad en áreas operativas de Ecopetrol. Instituto de Investigación de Recursos Biológicos Alexander von Humboldt - Ecopetrol S.A. Bogotá D.C., Colombia. 423 p

## TECHNICAL REPORTS

- 2020 **Palacio, R. D.** Towards a Duke Forest Habitat Connectivity Plan. Presented to the Office of the Duke Forest, Durham, NC, USA.
- 2017 **Palacio, R. D.** A conservation study tour to Ecuador: Nature Protected through land purchases. IUCN Netherlands.
- 2015 **Palacio, R. D.** Informe técnico: Potencial de compensación mediante restauración ecológica en dos sitios intervenidos en la cuenca del río Nus, Antioquia. Presented to the Wildlife Conservation Society – Colombia.
- 2014 **Palacio, R.D.** Informe final de actividades desarrolladas y resultados obtenidos: componente avifauna - ventanas Filandia y Dagua. Planeación Ambiental para la Conservación de la Biodiversidad en las áreas operativas de Ecopetrol. Presented for the Alexander von Humboldt Biological Resources Research Institute.

## DIVULGATION

- 2014 Forero-Medina, G., Gallego, N. & **Palacio, R.D.** Working to conserve Colombia's most imperiled turtle species. Turtle Survival Alliance Magazine August 2014.

## SELECTED PRESENTATIONS AT SCIENTIFIC MEETINGS

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- 2020 **Palacio, R.D.**, Negret, P.J., Velásquez-Tibatá, J., & Jacobson, A.P. A data-driven geospatial workflow to improve mapping species distributions and assessing extinction risk under the IUCN Red List. Poster Presentation at the VII North American Ornithological Conference (*virtual*).
- 2018 **Palacio, R.D.**, Vidal-Astudillo, V., Cárdenas G., & Luna-Solarte J. Aves del municipio de Santiago de Cali. Primer Simposio Vallecaucano de Ornitología. Santiago de Cali, Colombia.

- 2017 **Palacio, R.D.**, Kattan, G.H & Pimm, S.L. Bird extinctions and drivers of change: San Antonio 100 years later and beyond. Oral Presentation at the International Congress for Conservation Biology (ICCB 2017). Cartagena, Colombia. (*Best Student Oral Presentation*)
- 2016 **Palacio, R.D** & Kattan, G.H. San Antonio 100 years later: Bird Extinctions and Climate Change. Oral Presentation at the IV North American Ornithological Conference. Washington D.C, USA.
- 2015 **Palacio, R.D** & Forero-Medina, G. Restoring the habitat of the Dahl's toad-headed turtle: an endangered species in the threatened dry forests of Northern Colombia. Oral Presentation at the 6th World Conference on Ecological Restoration. Manchester, UK.
- 2014 **Palacio, R.D**, Valderrama-Ardila, C.H., & G.H. Kattan. Redes complejas en estudios ornitológicos: Análisis de una red de interacciones mutualistas en un bosque andino de la cordillera occidental. Oral presentation at the IV Colombian Zoology Conference. Cartagena, Colombia.
- 2014 **Palacio, R.D** & Forero-Medina, G. Herramientas de conservación en bosques secos: restauración del hábitat de la tortuga montañera (*Mesoclemmys dahli*) en el Caribe Colombiano. Videopresentation at the IV Colombian Zoology Conference. Cartagena, Colombia.
- 2013 **Palacio, R.D** & Vargas, W.G. Las aves insectívoras de sotobosque como bioindicadores: el caso de los corredores de conexión entre los bosques de Barbas y Bremen, Filandia-Quindío. Oral presentation at the IV Colombian Ornithology Conference. Santiago de Cali, Colombia. (*Outstanding student oral presentation*)
- 2013 **Palacio, R.D** & Vargas, W.G. Biological corridors connecting two large forest remnants promote evenness in a subandean avian assemblage. Poster presentation at the 5th World Conference on Ecological Restoration. Madison, USA.
- 2013 **Palacio, R.D** & Vargas, W.G. Los Insectívoros de sotobosque como indicadores de la efectividad de los corredores de conexión entre los bosques de Barbas y Bremen, Filandia-Quindío. Poster presentation at the III Iberoamerican and Caribbean Conference on Ecological Restoration. Bogotá, Colombia.

## GRANTS AND AWARDS

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2016 - 2020 Colciencias-Fulbright Ph.D Scholarship.

- 2020 Provost Graduate Assistantship. Duke Forest Governance and Land Use Intern. Duke University, Durham.NC, USA. Summer 2020.
- 2017 IUCN Netherlands. Land purchases for conservation: Study tour to Ecuador. Summer 2017.
- 2017 International Congress for Conservation Biology (ICCB 2017). Travel Grant. Society for Conservation Biology. Cartagena, Colombia
- 2016 IV North American Ornithological Conference. Travel Grant. Washington D.C, USA.
- 2015 Environmental Leadership and Training Initiative (ELTI). Travel Grant. 6th World Conference on Ecological Restoration. Manchester, UK.
- 2014 Colombian Association of Zoology. Conference Grant. IV Colombian Zoology Conference. Cartagena, Colombia.
- 2013 Colombian Association of Ornithology. Conference Grant. IV Colombian Ornithology Conference. Santiago de Cali, Colombia.
- 2009-2012 Academic Excellence, Icesi University. Cali, Colombia.

## TEACHING EXPERIENCE

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- 2020 Teacher's Assistant at *Integrating Environmental Science and Policy (ENV201)* course. Professor: Charlotte Clark, PhD. Duke University, Durham, NC, USA. Fall Semester.
- 2020 Teacher's Assistant at *Environmental Internship (ENV268)* course. Professor: Rebecca Vidra, PhD. Duke University, Durham, NC, USA. Fall Semester.
- 2019 Teacher's Assistant at *Seabird Survival and Dispersal Analysis (ENV 336A/836A)* field-course (Dry Tortugas National Park). Professor: Stuart Pimm, PhD. Duke University, Durham, NC, USA. Spring Semester.
- 2018 Teacher's Assistant at *Environmental Science and Policy (ENV102)* course. Professor: Rebecca Vidra, PhD. Duke University, Durham, NC, USA. Fall Semester.
- 2017 Teacher's Assistant at *Conserving the Variety of Life (ENV210D)* course. Professor: Stuart Pimm, PhD. Duke University, Durham, NC, USA. Fall Semester.