

Natalia Ocampo-Peñuela, PhD

Environmental Studies Department
University of California Santa Cruz
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Education

Duke University

Doctor of Philosophy, Environmental Sciences and Policy – 2016
Nicholas School of the Environment

Thesis title: Using bird distributions to assess threat and identify conservation priorities in biodiversity hotspots. *Advisor:* Stuart L. Pimm.

Pontificia Universidad Javeriana

B.S. in Ecology - 2010

Facultad de Estudios Ambientales y Rurales

Thesis title: Contribution of different forest types to the bird community of a savanna landscape in Colombia. *Advisor:* Andres Etter.

Research experience

University of California Santa Cruz, Environmental Studies Department, Santa Cruz, California – 2021 – Present

Assistant Professor of Field Conservation Ecology

Instituto de Investigación de Recursos Biológicos Alexander von Humboldt, Bogotá, Colombia – 2020-2021

Leader of the Research Project BIO Expeditions Chapman funded by Colombia's Ministry of Science. Funded by a Colciencias Postdoctoral Fellowship.

ETH Zurich. Zurich, Switzerland – 2016- 2019

Advisor: Dr. Jaboury Ghazoul

Postdoctoral fellow focused on bird functional connectivity and health in oil palm landscapes in Borneo and Colombia. Funded by an ETH Postdoctoral Fellowship.

Duke University, Durham, United States – 2011-2016

Advisor: Dr. Stuart Pimm

PhD student focused on bird distributions, extinction risk, and conservation in biodiversity hotspots. Led the bird-window collision team at Duke University with research on collision patterns and mitigation at Duke, and other North American campuses.

Fundación Horizonte Verde, Villavicencio, Colombia – 2008-2011

Advisor: Lourdes Peñuela

Led biodiversity surveys in private nature reserves, worked on the publication of books, and participated in various conservation projects.

Wake Forest University, Galapagos Islands, Ecuador; Malpelo Island, Colombia – 2010-2011

Advisor: Dr. David Anderson

Field assistant for bird banding, nest monitoring, and GPS and TDR tracking on Nazca Bobbies, Waved Albatrosses, and Swallow-tailed Gulls.

Proexport Colombia, Colombia – 2010-2011

Advisor: Claudia Munera

Worked on a project and publication about bird-watching tourism in Colombia.

The Nature Conservancy, Casanare, Colombia – 2010-2011

Advisor: Thomas Walschburger

Led the biodiversity component of a project about oil palm expansion and conservation priority setting in Casanare, Colombia.

Point Blue Conservation Science, Petaluma, United States - 2009

Advisor: Diana Humple

Bird bander and education staff at Palomarin Field Station and off-sites.

ANDIGENA Birding Group, Bogota, Colombia – 2005-2010

Student coordinator and head researcher on bird-window collisions and urban habitat selection by birds.

Scholarships and Grants

2020-2021	Colciencias Postdoctoral Fellowship – US\$30,000
2018-2020	Co-PI on National Geographic Grant “Mapping Waterbird Migrations in Tropical South America” – US\$150,000
2016-2018	ETH Postdoctoral Fellowship – CH 230,000
2011-2016	Fulbright-Colciencias PhD scholarship – US\$275,000
2014	National Science Foundation Dissertation Improvement Grant – US\$15,000
2014	The Rufford Small Grants Programme – US\$10,000
2014	Duke Graduate School – US\$2,900
2014	Duke Center for Latin American and Caribbean Studies – US\$800
2014	The Explorers Club Exploration Fund – US\$1,500
2009	Park Flight Internship, Point Reyes Bird Observatory, California, USA
2009, 2014	IdeaWild Equipment Sponsor undergraduate and doctoral fieldwork - US\$2,250

Peer-reviewed publications (*h* index: 14)

Google Scholar citations: https://scholar.google.com/citations?user=jkjG_okAAAAI

- 2021 Brown BB, Santos S, **Ocampo-Peñuela N.** 2021. Bird-window collisions: Mitigation efficacy and risk factors across two years. PeerJ 9:e11867
<https://doi.org/10.7717/peerj.11867>
- Bates, A., R. Primack (...), **Ocampo-Peñuela, N.** (...), C. Duarte. 2021. Global COVID-19 lockdown highlights humans as both threats and custodians of the environment. Biological Conservation. <https://doi.org/10.1016/j.biocon.2021.109175>
- Sánchez-Clavijo, L. M., Martínez-Callejas, S. J., Acevedo-Charry, O., Díaz-Pulido A., Gómez-Valencia, B., **Ocampo-Peñuela, N.**, Ocampo, D., Olaya-Rodríguez, M. H., Rey-Velasco J.R., Soto-Vargas, C., & Ochoa-Quintero, J.M. 2021. Differential reporting of biodiversity in two citizen science platforms during COVID-19 lockdown in Colombia. Biological Conservation, 256.
<https://doi.org/10.1016/j.biocon.2021.109077>.
- 2020 **Ocampo-Peñuela, N.**, J. Garcia-Ulloa, I. Kornecki, C.D. Philipson, & J. Ghazoul. Impacts of four decades of forest loss on vertebrate functional habitat on Borneo. Frontiers in Forests and Global Change, 3, 53.
<https://doi.org/10.3389/ffgc.2020.00053>.
- 2019 Brooks, T.M., S.L. Pimm, R.H. Akçakaya, G.M. Buchanan, S.H.M. Butchart, W. Foden, C. Hilton-Taylor, M. Hoffmann, C.N. Jenkins, L. Joppa, B.V. Li, V. Menon, **N. Ocampo-Peñuela**, C. Rondini. Measuring terrestrial Area of Habitat (AOH) and its utility for the IUCN Red List. Trends in Ecology and Evolution.
<https://doi.org/10.1016/j.tree.2019.06.009>.
- 2018 Winton, R. S. and **Ocampo-Peñuela, N.** How to realize social and conservation benefits from ecotourism in post-conflict contexts. Biotropica 50(5): 718-722. doi:10.1111/btp.12594.
- Ocampo-Peñuela, N.**, J. Garcia-Ulloa, J. Ghazoul, A. Etter. Quantifying impacts of oil palm expansion on Colombia's threatened biodiversity. Biological Conservation (224): 117-121, <https://doi.org/10.1016/j.biocon.2018.05.024>.
- Winton, R.S., **Ocampo-Peñuela, N.**, Cagle, N. Geo-referencing bird-window collisions for targeted mitigation. PeerJ 6:e4215.
<https://doi.org/10.7717/peerj.4215> .
- 2017 **Ocampo-Peñuela N.** and R.S. Winton. Economic and conservation potential of birdwatching tourism in post-conflict Colombia. Tropical Conservation Science 10:1-6.
- Hager, S, B. Cosentino, (...), **N. Ocampo-Peñuela**, (...). Continent-wide analysis of how urbanization affects bird-window collision mortality in North America. Biological Conservation 212 (A): 209-215.
- Wittig, T. W., N. L. Cagle, **N. Ocampo-Peñuela**, R. Scott Winton, E. Zambello, and Z. Lichtneger. Species traits and local abundance affect bird-window collision

frequency. *Avian Conservation and Ecology* 12(1):17.
<https://doi.org/10.5751/ACE-01014-120117>.

Pimm, S.L., G. Harris, C.N. Jenkins, **N. Ocampo-Peñuela**, B.V. Li. Unfulfilled promise of data-driven approaches: response to Peterson et al. 2016. *Conservation Biology* 31 (4): 944-947; DOI: 10.1111/cobi.12928.

2016 **Ocampo-Peñuela, N.**, C.N. Jenkins, V. Vijay, B.V. Li, S.L. Pimm. Incorporating explicit geospatial data shows more species at risk of extinction than the current Red List. *Science Advances* 2 (11), e1601367. DOI: 10.1126/sciadv.1601367.

Li, B.V., A.C. Hughes, C.N. Jenkins, **N. Ocampo-Peñuela**, S.L. Pimm. Remotely sensed data informs Red List evaluations and conservation priorities in Southeast Asia. *PLoS ONE* 11(8): e0160566. doi: 10.1371/journal.pone.0160566.

Ocampo-Peñuela, N., L. Peñuela-Recio & A. Ocampo-Durán. Decals prevent bird-window collisions at residences: a successful case study from Colombia. *Ornitología Colombiana* 15: e84-91.

2015 **Ocampo-Peñuela, N.**, R.S. Winton, C. Wu, E. Zambello, T. Wittig & N. Cagle. Patterns of bird-window collisions inform mitigation on a university campus. *PeerJ* 4:e1652; DOI 10.7717/peerj.1652.

Ocampo-Peñuela, N & S.L. Pimm. Elevational ranges of montane birds and deforestation in the Western Andes of Colombia. *PLoS ONE* 10(12):e0143311.

Ocampo-Peñuela, N & S.L. Pimm. Bird conservation would complement landslide prevention in the Central Andes of Colombia. *PeerJ* 3:e779; DOI 10.7717/peerj.779.

2014 **Ocampo-Peñuela, N** & S.L. Pimm. Setting practical conservation priorities for birds in the Western Andes of Colombia. *Conservation Biology* 28(5): 1260-1270.

2013 **Ocampo-Peñuela, N** & A. Etter. Contribution of different forest types to the bird community of a savanna landscape in Colombia. *Neotropical Ornithology* 24: 35-53.

2012 Farji-Brener, A.G., N. Morueta-Holme, F. Chinchilla, B. Willink, **N. Ocampo-Peñuela** & G. Bruner. Leaf-cutting ants as road engineers: the width of trails at branching points in *Atta cephalotes*. *Insectes Sociaux: International Journal for the Study of Social Arthropods* 59: 389-394.

2010 Agudelo, L., J. Moreno, & **N. Ocampo-Peñuela**. Colisiones de aves contra ventanales en un campus universitario de Bogotá, Colombia. *Ornitología Colombiana* 10: 3-10.

Ocampo-Peñuela, N. El fenómeno de la migración en aves: una mirada desde la Orinoquia. *Orinoquia* 14 (2):188-200.

Castro-Lima, F. & **N. Ocampo-Peñuela**. Primer registro del Jilguero Cara Amarilla (FRINGILLIDAE: *Carduelis yarrellii*) en Colombia. *Ornitología Colombiana* 10: 69-71.

- 2006 **Ocampo-Peñuela, N.** Comparación de la avifauna de tres sistemas de producción en los Llanos Orientales de Colombia. *Rev. Est. Investig. Ecotono Ecol. Bio. Soc.* 4: 6-14.

Books and book chapters

- 2014 **Ocampo-Peñuela, N.**, G.H. Kattan, & G. Cadena. *Grallaria alleni*, in: Renjifo, L.M., Gomez, M.F., Velasquez-Tibata, J., Amaya-Villareal, A.M., Kattan, G.H., Amaya-Espinel, J.D., & Burbano-Giron, J. 2014. Libro rojo de aves de Colombia, Volumen I: bosques húmedos de los Andes y la costa Pacífica. Editorial Pontifica Universidad Javeriana e Instituto Alexander von Humboldt. Bogotá D.C., Colombia.
- Kattan, G.H., G. Cadena, & **N. Ocampo-Peñuela**. *Grallaria milleri*, in: Renjifo, L.M., Gomez, M.F., Velasquez-Tibata, J., Amaya-Villareal, A.M., Kattan, G.H., Amaya-Espinel, J.D., & Burbano-Giron, J. 2014. Libro rojo de aves de Colombia, Volumen I: bosques húmedos de los Andes y la costa Pacífica. Editorial Pontifica Universidad Javeriana e Instituto Alexander von Humboldt. Bogotá D.C., Colombia.
- Castaño-Hernández, J. & **Ocampo-Peñuela, N.** *Ampelion rufaxilla*, in: Renjifo, L.M., Gomez, M.F., Velasquez-Tibata, J., Amaya-Villareal, A.M., Kattan, G.H., Amaya-Espinel, J.D., & Burbano-Giron, J. 2014. Libro rojo de aves de Colombia, Volumen I: bosques húmedos de los Andes y la costa Pacífica. Editorial Pontifica Universidad Javeriana e Instituto Alexander von Humboldt. Bogotá D.C., Colombia.
- Ocampo-Peñuela, N.** *Bucco noanamae*, in: Renjifo, L.M., Gomez, M.F., Velasquez-Tibata, J., Amaya-Villareal, A.M., Kattan, G.H., Amaya-Espinel, J.D., & Burbano-Giron, J. 2014. Libro rojo de aves de Colombia, Volumen I: bosques húmedos de los Andes y la costa Pacífica. Editorial Pontifica Universidad Javeriana e Instituto Alexander von Humboldt. Bogotá D.C., Colombia.
- 2011 Múnera, C., **N. Ocampo-Peñuela**, J. Castaño, D. Calderón, R. Schiele & I. Macías. Travel Guide for Birdwatching Places in Colombia. Proexport Colombia. 93p.
- Peñuela, L., F. Castro & **N. Ocampo-Peñuela**. Las Reservas Naturales del Nodo Orinoquia en su rol de conservación de la biodiversidad. Fundación Horizonte Verde y Resnatur. Colombia. 104p.
- 2010 **Ocampo-Peñuela, N.** Editor. Mecanismos de conservación privada: una opción viable en Colombia. Grupo Colombiano Interinstitucional de Herramientas de Conservación Privada. Bogotá, Colombia. 112p.

Featured in the book “Women and GIS: Mapping their stories” published by ESRI Press in 2019. The book tells the stories on 23 women who use GIS in their discipline in different corners of the globe.

Other publications

- 2019 Pardo-Vargas, L. & **N. Ocampo-Peñuela**. Contextualizando el impacto ambiental de la palma de aceite en Colombia. *Revista Palmas*, 40(3): 79-88.
- 2017 **Ocampo-Peñuela, N.** Conservación de aves en los bosques andinos de Colombia. *Voices for Biodiversity*. Online Magazine.
- 2016 **Ocampo-Peñuela, N.** Agua, aves y prevención de derrumbes: tres servicios ecosistémicos, una estrategia. *Decision Point en Español Edición 3*, University of Queensland.
- Ocampo-Peñuela, N.** Cuáles aves conservamos primero?. *Decision Point en Español Edición 2*, University of Queensland.
- Ocampo-Peñuela, N.** Bird conservation along Colombia's Andean forests. *Voices of Biodiversity*. Online Magazine.
- 2015 **Ocampo-Peñuela, N.** Book review: A walk in the forest. *Trends in Ecology & Evolution* 30 (9): 512. <http://dx.doi.org/10.1016/j.tree.2015.07.0044>.
- Ocampo-Peñuela, N.** & R.S. Winton. Open Mic: Bird-window collisions and "green" buildings on Duke's campus. *American Birding Association Blog*.
- Ocampo-Peñuela, N.** & R.S. Winton. Bird-window collisions: A crash course for Duke University. *North Carolina Wildlifer*. p 15-17.
- 2010 **Ocampo-Peñuela, N.** Contribución de los elementos boscosos del paisaje a la avifauna de un bioma de sabana en San Martín (Meta, Colombia). Thesis Summary. *Ornitología Colombiana* 9:79.

Teaching experience

ETH Zurich, instructor “Ecology field Course” in Zurich - 2019, instructor “Tropical Forest Ecology” field course in Borneo – 2017. Occasional lecturer in “Resilience of Ecological Systems” and “Rainforest Ecology”.

Guest lectures: Utrecht University (2017), Norwegian University of Life Sciences (2019).

Duke University, Teaching Assistant – 2014. “Tropical Ecology”. Occasional lecturer in “Conservation Biology”.

Fundación Horizonte Verde, Head instructor – 2010-2011. Basic and advanced ornithology Field course in Guaviare, Colombia.

Awards and Honors

Merian Award for best oral presentation – European Conference for Tropical Ecology 2018

Honorable Mention- 8th Annual OTS Student Paper Award - 2017

Honors, Graduated with highest GPA in cohort - 2010

Javeriana Diploma for Outstanding Academic Performance - 2010

Recent conference talks

2021 – Ecological Society of America (Virtual, USA)

2019 – Global Land Programme IV Open Science Meeting (Bern, Switzerland)

2018 – European Conference for Tropical Ecology (Paris, France) – Best oral presentation award, V Congreso Colombiano de Zoología (Bogotá, Colombia)

2017 – SEARRP Science Meeting (Cambridge, UK), LIV Association for Tropical Biology and Conservation (Merida, Mexico), XXVIII International Congress for Conservation Biology (Cartagena, Colombia), 1st Workshop for ICARUS users (Konstanz, Germany)

2015 –LII Association for Tropical Biology and Conservation (Hawai'i, USA)

2014 – IV Congreso Colombiano de Zoología (Cartagena, Colombia)

2013 – L Association for Tropical Biology and Conservation (San Jose, Costa Rica), XXVI International Congress for Conservation Biology (Baltimore, USA)

Invited talks

2020 – Earth Biogenome Project Colombia Chapter launch: “Expediciones BIO: Alas, cantos y colores”; Seminario Vallecaucano de Ornitología: “Expediciones BIO: Alas, cantos y colores” Festival de Aves del Huila: “Expediciones BIO: Alas, cantos y colores”, Sociedad Caldense de Ornitología: “Prioridades de conservación de aves en bosques colombianos”; Birds Colombia: “Charlas Pajareras”; V Seminario Vallecaucano de Ornitología; Festival de Aves del Huila

2019 - University of Copenhagen: “Oil palm impacts on biodiversity: the importance of context”.

2018 – Universidad de los Llanos: “Birdwatching tourism and its potential in Colombia”; Instituto Alexander von Humboldt: “Economic and conservation tourism of birdwatching tourism in post-conflict Colombia”.

2016 – The Sierra Club (NC Chapter): “Bird conservation research in Colombia: from maps to trails”; New Hope Audubon Society: “Bird window collision patterns and mitigation alternatives”

2015 – Duke Conservation Society Symposium: “Bird-window collisions and LEED-certified buildings”; NCSU Chapter of International Society of Tropical Foresters: “Forest conservation in Colombia: a bird’s eye-view”

2014 – Chapel Hill Bird Club: “Bird conservation research in Colombia: my experiences”

2013 – New Hope Audubon Society: “Birds of Colombia: a bite of paradise”

Editor and reviewer

Associate editor for: Ornitología Colombiana.

Guest associate editor for special issue: Frontiers in Ecology and Evolution.

Reviewer for: Biological Conservation, Biodiversity and Conservation, Global Change Biology, Conservation Letters, PNAS, Environmental Research Letters, Scientific Reports, Proceedings of the Royal Society B, The Condor: Ornithological Applications, PeerJ, Journal of Field Ornithology, Zoologia, Biota Colombiana, Ornitología Colombiana, Journal of Threatened Taxa, PlosOne, Austral Ecology, Journal of Biogeography, El Hornero, Turismo y Sociedad.

Synergistic Activities

2013 – 2016. Field trip leader for the Carolina Bird Club (Colombia, Dominican Republic, Ecuador, Peru, North Carolina)

2012 – 2016. Volunteer bird bander at the North Carolina Museum of Natural History's field station in Raleigh, NC.

2009. Designed and implemented education module about birds for kids from kindergarten to 5th grade for Asociación Calidris in Valle del Cauca, Colombia.

2007-2009. Board Member. RESNATUR – Private Natural Reserve Association, Colombia.

2005-2009. President. Herederos del Planeta Colombia (Inheritors of the Planet).

Languages

Spanish – Native

English – full professional proficiency

References

Stuart L. Pimm PhD
Doris Duke Chair of Conservation Ecology
Nicholas School of the Environment
Duke University
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Andres Etter PhD
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Facultad de Estudios Ambientales y Rurales
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