Julissa Rojas-Sandoval

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FINCA Project: https://finca.collaboration.uconn.edu/

EDUCATION

2005 – 2010	Ph.D. Biology. Major in Conservation Ecology. University of Puerto Rico.
2001 – 2004	M.Sc. Biology. Major in Cell and Molecular Biology. Universidad de Costa Rica.
1997 – 2001	B.S. Biology. Universidad de Costa Rica.

PROFESSIONAL EXPERIENCE

2019 – present	Assistant Research Professor. Institute of the Environment, University of Connecticut.
2017 – 2022	Research Associate. Department of Botany, National Museum of Natural History Smithsonian Institution. Washington, D.C.
2012 – 2017	Postdoctoral Research Fellow. Department of Botany, National Museum of Natural History, Smithsonian Institution. Washington, D.C.
2010 – 2012	Postdoctoral Research Fellow. Center for Applied Tropical Ecology and Conservation, University of Puerto Rico, San Juan, Puerto Rico.

FELLOWSHIPS AND AWARS

2012 – 2017	Postdoctoral Fellowship. Department of Botany, National Museum of Natural History, Smithsonian Institution. Total Award: $249,000.
2010 – 2012	Postdoctoral Fellowship. Center for Applied Tropical Ecology and Conservation, University of Puerto Rico. Total Award: $76,000.
2012	Costa Rican National Academy of Sciences. Award Outstanding Young Investigator.
2009 – 2010	Dissertation Fellowship Award. Dean for Graduate Studies and Research. University of Puerto Rico, Rio Piedras Campus. Total Award: $11,000.
2008 – 2009	Exceptional Academics Executorial. Graduate Students Award. Dean for Graduate Studies and Research. University of PuertoRico, Rio Piedras Campus. Total Award: $13,000.
2002	Graduate Research Fellowship, Organization for Tropical Studies. OTS-02-13.
2001	Graduate Fellowship Award. Dean of Graduate Studies (Vicerrectoría de Investigación). Universidad de Costa Rica.
2000	REU Fellowship. Research Experiences for Undergraduate Students. Universidad de Costa Rica. Summer School on Research and Field Biology. Golfito, Costa Rica.

RESEARCH GRANTS AWARDED

2024-2028	NSF-Collaborative Research. Superinvaders: testing a general hypothesis of forest invasions by woody species across the Americas. J. Fridley (PI), J. Rojas-Sandoval (PI) & P.H. Martin (PI). $1,525,604.
2021-2023	Caribbean Pollination Networks Project. Grant for Research in Academic Themes. Institute of the Environment, University of Connecticut. PI: J. Rojas-Sandoval. $77,500.
2020-2022	General Assessment of Invasive Plant Species across Caribbean Islands. USDA-APHIS Grant. PI: Hilda Diaz-Soltero, Co-PI: J. Rojas-Sandoval. $417,450.
2020	Monitoring grass invaded habitats on Mona Island. U.S. Wildlife Restoration Program. Grant PR-W-F20AF00016. PIs: J. Rojas-Sandoval, E. Meléndez- Ackerman. $55,793.
2018-2020	Catalogue of Invasive Plant Species in Puerto Rico. USDA-APHIS Grant. PI: Hilda Diaz-Soltero, Co-PI: J. Rojas-Sandoval. $233,000.

PUBLICATIONS

Accepted and in press/ Submitted

40. Willig, M.R., **Rojas-Sandoval, J.,** and Presley, S. Phenological Patterns in Ecology: Problems Using Circular Statistics and Solutions Based on Simulation.

39. Presley, S., **Rojas-Sandoval, J.,** and Willig, M.R. Long-term stability of plant metacommunities in tropical forests of Puerto Rico: considerations of native and non-native species.

38. **Rojas-Sandoval, J.,** Angles-Alcazar, D., and Willig, MR. Predicting Plant Invasion Success with Machine Learning.

Published

37. Nytch, C., **Rojas-Sandoval, J.**, Erazo, A., Santiago R., and Melendez-Ackerman, E. 2023. Effects of historical land use and recovery pathways on composition, structure, ecological function, and ecosystem services in a Caribbean secondary forest. Forest Ecology and Management. https://doi.org/10.1016/j.foreco.2023.121311

36. **Rojas-Sandoval, J.**, Ferrufino-Acosta, L., Flores R., Galán P., López O., MacVean A., Rodríguez Delcid D., Ruiz Y., and Chacón-Madrigal E. 2022. Flora introduced and naturalized in Central America. Biological Invasions. https://doi.org/10.1007/s10530-022-02968-3

35. **Rojas-Sandoval, J.**, Ackerman, D., Marcano, H., and Willig, MR. 2022. Alien species affect the abundance and richness of native species in tropical forests: the role of adaptive strategies. Ecosphere. https://doi.org/10.1002/ecs2.4291

34. Fridley, J., Bellingham, P. Closset-Kopp, D., Daehler, C., Dechoum, M., Martin, P., Murphy, H., **Rojas-Sandoval, J.**, and Tng, D. 2022. A general hypothesis of forest invasions by woody plants based on whole-plant carbon economics. Journal of Ecology. https://doi.org/10.1111/1365-2745.14001

33. Fumero-Caban, J.J., Melendez-Ackerman, E.J., and **Rojas-Sandoval, J.** 2022. Pollination ecology and breeding system of the tropical tree Guaiacum sanctum on two Caribbean islands with contrasting pollinator assemblages. Journal of Pollination Ecology. https://doi.org/10.26786/1920-7603(2022)669

32. Olivero-Lora, S., **Rojas-Sandoval, J.**, Melendez-Ackerman, E.J. and Orengo-Rolón, J.L. 2022. Hurricane driven changes in vegetation structure and ecosystem services in tropical urban yards: a study case in San Juan, Puerto Rico. Urban Ecosystems 1: 1-14. https://doi.org/10.1007/s11252-022-01236-5

31. **Rojas-Sandoval, J.**, and Ackerman J.D. 2021. Ornamentals lead the way: global influences on plant invasions in the Caribbean. NeoBiota 64: 177-197. https://doi.org/10.3897/neobiota.64.62939

30. Melendez-Ackerman, E., and **Rojas-Sandoval J.** 2021. Profiling native and introduced perennial garden plants in Puerto Rican urban residential yards. Journal of Urban Ecology 7: 1-12. https://doi.org/10.1093/jue/juaa037

29. Zimmerman, J.K., **Rojas-Sandoval,** J. and Shiels, A.B. 2021. Invasive Species in Puerto Rico: The View From El Yunque. Frontiers in Ecology and Evolution 9: 640121. doi: 10.3389/fevo.2021.640121

28. **Rojas-Sandoval J**., Ackerman J.D, and Tremblay, L.R. 2020. Island biogeography of native and alien plantspecies: contrasting drivers of diversity across the Lesser Antilles. Diversity and Distributions 26: 1539-1550. https://doi.org/10.1111/ddi.13139

27. Franklin J., Andrade R., Daniels M.L., Fairbairn P., Fandino M.C., Gillespie T.W., González G., Gonzalez O., Imbert D., Kapos V., Kelly D.L., Marcano-Vega H., Meléndez-Ackerman E.J., McLaren K.P., McDonald M.A., Ripplinger J., **Rojas-Sandoval J**., Ross M.S., Ruiz J., Steadman D.W., Tanner E.V.J, Terrill I., Vennetier M. 2018. Geographical ecology of dry forest tree communities in the West Indies. Journal of Biogeography, 45(5):1168-81 doi.org/10.1111/jbi.13198

26. Seebens H., Blackburn T.M., Dyer E.E., Genovesi P., Hulme P.E., Jeschke J.M., Pagad S., Pyšek P., Winter M., Arianoutsou M., Bacher S., Brundu G., Capinha C., Celesti-Grapow L., Dawson W., Dullinger S., Fuentes N., Jäger H., Kartesz J., Kenis M., Kühn I., Liebhold A., Mosena A., Nishino M., Pearman D., Pergl J., Rabitsch W., **Rojas-Sandoval J**., Roques A., Rorke S., Rossinelli S, Roy H.E., Scalera R., Schindler S., Štajerová K., Tokarska-Guzik B., van Kleunen M., Walker K., Yamanaka T. and Essl F, 2018. Global rise in emerging alien species results from increased accessibility of new source pools. PNAS, 115(10): 201719429 https://doi.org/10.1073/pnas.1719429115

25. **Rojas-Sandoval J**., Tremblay R.L., Acevedo-Rodriguez P., and Diaz-Soltero H. 2017. Invasive plant species in the West Indies: geographical, ecological and floristic insights. Ecology and Evolution 7: 4522–4533. https://doi.org/10.1002/ece3.2984

24. Seebens H., Blackburn T.M., Dyer E.E., Genovesi P., Hulme P.E., Jeschke J.M., Pagad S., Pyšek P., Winter M., Arianoutsou M., Bacher S., Brundu G., Capinha C., Celesti-Grapow L., Dawson W., Dullinger S., Fuentes N., Jäger H., Kartesz J., Kenis M., Kühn I., Liebhold A., Mosena A., Nishino M., Pearman D., Pergl J., Rabitsch W., **Rojas-Sandoval J**., Roques A., Rorke S., Rossinelli S, Roy H.E., Scalera R., Schindler S., Štajerová K., Tokarska-Guzik B., van Kleunen M., Walker K., Yamanaka T. and Essl F. 2017. No saturation in the accumulation of alien species worldwide. Nature Communications 8:14435 https://doi.org/10.1038/ncomms14435

23. Ackerman JD., Tremblay RL., **Rojas-Sandoval J**., and Hernández-Figueroa H. 2017. Biotic resistance in the tropics: patterns of seed plants invasions within an island. Biological Invasions 19:315-328. https://doi.org/10.1007/s10530-016-1281-4

22. **Rojas-Sandoval J**., Meléndez-Ackerman E., Anglés-Alcázar D. 2016. Assessing the impact of grass invasion on the population dynamics of a threatened Caribbean dry forest cactus. Biological Conservation 196: 156-164. https://doi.org/10.1016/j.biocon.2016.02.015

21. **Rojas-Sandoval J**., Meléndez-Ackerman E., Fumero-Cabán J, García-Bermúdez M, Sustache J, Aragón S, Morales-Vargas M, Olivieri G, and Fernández DS. 2016. Long-term understory vegetationdynamics and responses to ungulate exclusion in the dry forest of Mona Island. Caribbean Naturalist1:138–156.

20. Meléndez-Ackerman E., **Rojas-Sandoval J**., Fernández D.S., González G., López H., Sustache J., Morales M., García-Bermúdez M., and Aragón S. 2016. Associations between soil variables and vegetation structure and composition of Caribbean dry forests. Caribbean Naturalist 1:176–198.

19. **Rojas-Sandoval J.** and Acevedo-Rodríguez P. 2015. Naturalization and invasion of alien plants in Puerto Rico and the Virgin Islands. Biological Invasion 17: 149-163. https://doi.org/10.1007/s10530-014-0712-3

18. **Rojas-Sandoval J**., Meléndez-Ackerman E., Fumero-Cabán J., García-Bermúdez M.A., Sustache, J., Aragón, S., Morales, M., and Fernández, DS. 2014. Effects of hurricane disturbance and feral goat herbivory on the structure of a Caribbean dry forest. Journal of Vegetation Science 25: 1066-1077. https://doi.org/10.1111/jvs.12160

17. Moreno L.M., Meléndez-Ackerman E., Cheleuitte C., Lastra L., Rodriguez R., **Rojas-Sandoval J.** 2014. Potential impacts of the invasive grass *Megathyrsus maximus* (Poaceae) on ground-dwelling arthropods in a Caribbean dry forest. Caribbean Naturalist 7: 1-15. *Lead by undergraduate students.

16. **Rojas-Sandoval J.** and Meléndez-Ackerman E. 2013. Population dynamics of a threatened cactus species: general assessment and effects of matrix dimensionality. Population Ecology 55: 479-491. https://doi.org/10.1007/s10144-013-0378-1

15. **Rojas-Sandoval J.** and Meléndez-Ackerman E. 2013. Spatial patterns of distribution and abundanceof *Harrisia portoricensis,* an endangered Caribbean Cactus. Journal of Plant Ecology 6: 489-498 https://doi.org/10.1093/jpe/rtt014

14. **Rojas-Sandoval J.** and Meléndez-Ackerman E. 2012. Effects of an invasive grass on the demographyof the Caribbean cactus *Harrisia portoricensis*: implications for cacti conservation. Acta Oecologica 41: 30-38. https://doi.org/10.1016/j.actao.2012.04.004

13. **Rojas-Sandoval J.** and Meléndez-Ackerman E. 2012. Factors affecting establishment success of the endangered Caribbean cactus *Harrisia portoricensis.* Revista de Biología Tropical 60: 867-879.

12. **Rojas-Sandoval J.**, Meléndez-Ackerman E., and Fernández D.S. 2012. Plan community dynamics ofa tropical sem-iarid system following experimental removals of an exotic grass. Applied Vegetation Science 15: 513-524 https://doi.org/10.1111/j.1654-109X.2012.01199.x

11. Curbelo-Rodríguez J., Meléndez-Ackerman E., **Rojas-Sandoval J**., and Segarra-Carmona A. 2012. New Record of *Cybocephalus kathrynae* (Coleoptera: Cybocephalidae) on Mona Island, Puerto Rico.Revista Brasileira de Entomologia 56: 119-121. *Lead by undergraduate student.

10. Guerrero P.C., Carvallo G.O., Nassar J.M., **Rojas-Sandoval J**., Sanz V., and Medel R. 2011. Ecology and evolution of negative and positive interactions in Cactacaea: lesson and pending tasks.Plant Ecology and Diversity *5*:205-215., https://doi.org/10.1080/17550874.2011.630426

9. **Rojas-Sandoval J.** and Meléndez-Ackerman E. 2011. Reproductive phenology of the Caribbean cactus *Harrisia portoricensis*: rainfall and temperature associations. Botany 89: 861-871. https://doi.org/10.1139/b11-072

8. **Rojas-Sandoval J.** and Meléndez-Ackerman E. 2011. Reproductive wind-facilitated self-pollination in

Harrisia portoricensis (Cactaceae): A mechanism for reproductive assurance. International Journal of Plant Reproductive Biology 3: 1-5.

7. **Rojas-Sandoval J.** and Meléndez-Ackerman E. 2011. Notes on the natural history of *Harrisia portoricensis* (Cactaceae): a general update including specific recommendations for management and conservation. Caribbean Journal of Science 47: 118-123. https://doi.org/10.18475/cjos.v47i1.a1

6. **Rojas-Sandoval J**. 2010. Natural history of the threatened cactus species *Harrisia portoricensis*.Kaktusy i Inne. Journal of Polish Cactus and Succulent Society 7: 4-8.

5. **Rojas-Sandoval J**. and Meléndez-Ackerman E. 2009. Pollination biology of *Harrisia portoricensis* (Cactaceae), an endangered Caribbean species. American Journal of Botany 96: 2270-2278. https://doi.org/10.3732/ajb.0900026

4. **Rojas-Sandoval J**., Budde K., Fernández M., Chacón E., Quesada M., and Lobo J.A. 2008. Phenology and pollination biology of *Ceiba pentandra* (Bombacaceae) in the wet forest of southeastern Costa Rica. *In*: Weisserhofer A., W. Huber, V. Mayer, S. Pamperl, A. Weber and G. Aubrecht (Eds). Naturaland Cultural History of the Golfo Dulce Region, Costa Rica, pp 539-545. Staphia 88, Freistadt, Austria.

3. **Rojas-Sandoval J**., Lobo J.A., and Quesada M. 2008. Phenological patterns and reproductive successof *Ceiba pentandra* (Bombacaceae) in tropical dry and wet forests of Costa Rica. Revista Chilena de Historia Natural 81: 443-454.

2. Meléndez-Ackerman E., **Rojas-Sandoval J**., and Planas S. 2008. Self-compatibility of microgametophytes in *Heliconia bihaii* (Heliconiaceae) from St. Lucia. Caribbean Journal of Science44: 145-149.

1. Lobo, J.A., Quesada M., Stoner K., Fuchs E., **Rojas-Sandoval J**., and Saborío G. 2003. Factors affecting phenological patterns of Bombacaceous trees in seasonal forest in Costa Rica and Mexico. American Journal of Botany 90: 1054-1063. https://doi.org/10.3732/ajb.90.7.1054

TECHNICAL REPORTS

Rojas-Sandoval J. 2012-2023. Invasive Plant Species in the West Indies. Revision of the distribution, invasion status, history of introduction, habitat preferences, and management recommendations for 425 plant species behaving as invasive on Caribbean islands. Technical reports commissioned by the United States Department of Agriculture (USDA), the Smithsonian Institution, and the Centre for Agriculture and Biosciences International (CABI). Invasive species datasheets available online at the **CABI Invasive Species Compendium** (http://www.cabi.org/isc/).

TEACHING EXPERIENCE

Spring 2023	Guest Lecturer: *Invasive Species Biology.* University of Puerto Rico, Rio Piedras.
Spring 2022	Guest Lecturer: *Invasive Species Biology.* University of Puerto Rico, Rio Piedras.
Fall 2021	Instructor: EEB 5369: *Current Topics in Biodiversity*. University of Connecticut.

Fall 2021	Guest Lecturer: *Dynamics of Biological Invasions.* University of Puerto Rico.
Spring 2021	Guest Lecturer: *Community Ecology.* University of Puerto Rico, Humacao Campus.
Fall 2020	Guest Lecturer: *Invasive Species Biology.* University of Puerto Rico, Rio Piedras.
Spring 2008	Teaching Assistant: *General Biology II.* University of Puerto Rico.
Fall 2007	Teaching Assistant: *General Biology II.* University of Puerto Rico.
2004 – 2005	Instructor and Coordinator: *Environmental Education Program*. Fundación Neotropica. Tropical Center, Osa Peninsula, Costa Rica.
Spring 2004	Teaching Assistant: *Tropical Ecology and Conservation.* Organization for Tropical Studies. OTS-ETC 04-2. Costa Rica.
2003 – 2004	High School Teacher. *General Biology and General Science*. Puerto Jimenez Public High-School. Puerto Jimenez, Península de Osa, Costa Rica.
Fall 2001	Teaching Assistant: *General Ecology.* University of Costa Rica. San Jose, Costa Rica.
Spring 1999	Teaching Assistant: *General Biology.* University of Costa Rica. San Jose, Costa Rica.

RESEARCH EXPERIENCE

2020 – present	Principal Investigator. FINCA Project: Flora Introduced and Naturalized in Central America. University of Connecticut. https://finca.collaboration.uconn.edu/
2019 – present	Principal Investigator. Caribbean Pollination Network Project. Institute of the Environment. University of Connecticut.
2017 – present	Research Associate. Department of Botany, National Museum of NaturalHistory, Smithsonian Institution. *Projects led:* (1) Factors explaining the naturalization and invasion of alien plants in theWest Indies. (2) Invasive plants in the West Indies: Compilation of datasheets for CABI-Invasive Species Compendium. Collaboration with: Pedro Acevedo (SI), Hilda Diaz-Soltero (USDA), Lucinda Charles & Gareth Richards (CABI), James Ackerman & Raymond Tremblay (University of Puerto Rico).
2012 – 2017	Postdoctoral Research Fellow. Department of Botany, National Museum ofNatural History, Smithsonian Institution. *Projects led*: Invasive plants in the West Indies: Compilation of datasheets for CABI-Invasive Species Compendium. Collaboration with: Pedro Acevedo (SI), Hilda Diaz-Soltero (USDA), Lucinda Charles & Gareth Richards (CABI).
2010 –2012	Postdoctoral Research Fellow. Center for Applied Tropical Ecology andConservation, University of Puerto Rico. *Projects led*: (1) Vegetation community dynamics of a tropical semiarid system following experimental removals of exotic grasses. (2) The impact of feral ungulates on Mona Island vegetation.
2005 – 2007	Graduate Research Assistant. Tropical Plant Ecology and EvolutionLaboratory,

University of Puerto Rico. Topic: Micro-morphologicalcharacterization of the vegetation of Mona Island. Project Director: Elvia Meléndez-Ackerman.

2001 –2004 Graduate Research Assistant. University of Costa Rica. Topic: Reproductive biology and phenology of *Ceibapentandra* (Bombacaceae) in two life zones of Costa Rica. Directors: Jorge A. Lobo-Segura, Mauricio Quesada.

2001 – 2002 Graduate Research Assistant, Universidad de Costa Rica and Universidad Nacional Autónoma de Mexico. Topic: Effects of fragmentation and spatial isolation on the reproductive success of trees in the Bombacaceae family. Project Directors: Mauricio Quesada, Jorge A. Lobo-Segura

1998 – 2000 Undergraduate Research Assistant. Department of Natural History, National Museum of Costa Rica. Director: Bernal Rodríguez.

PRESENTATIONS AND INVITED TALKS (last 5yrs)

- *Plant invasions in the tropics: lessons from the Caribbean*. Invited Seminar. SE Regional Invasive Species and Climate Change (SE-RISCC) Network. Florida. April 2023.
- *Predicting Plant Invasion with Machine Learning*. Oral Presentation. 2022 BES Annual Meeting-British Society of America, Edinburgh, UK. December 2022.
- *Alien woody species are linked to reduced native richness and abundance in Caribbean forests*. Oral Presentation. 2022 ESA Annual Meeting-Ecological Society of America, Montreal, Canada. August 2022.
- *Loss of functional diversity and homogenization driven by biological invasions on islands*. Invited Seminar. University of Puerto Rico, Rio Piedras Campus. May 2022.
- *Woody plant invasions in the Caribbean: Introduction history and ecological insights*. Oral Presentation. 2021 ESA Annual Meeting. Session Title: Woody Invaders in Temperate and Tropical Forests: Different Species, Same Strategy? Virtual Meeting. August 2021.
- *Biological Invasions within the context of Community Ecology*. Invited Seminar. University of Puerto Rico. Humacao. Puerto Rico. April 2021.
- *Inventory of the Naturalized Vascular Flora of Central America*. Invited Seminar. Universidad de Costa Rica, San Jose. March 2021.
- *Biological Invasions across Caribbean Islands*. Invited Seminar. University of Puerto Rico. San Juan, Puerto Rico. October 2020.
- *The impacts of alien pollinators on native species.* Invited Seminar. Puerto Rico Honeybee and Evolution of Invasive Organisms on Islands Conference. San Juan. August 2019.
- *Biogeography of native and invasive plant species: contrasting drivers of diversity across the West Indies.* Invited Seminar. Department of Biology, University of Puerto Rico. August 2019.
- *Plant Invasions in the West Indies: what, why, and where?* Invited Seminar. Puerto Rico Invasive Species Awareness Conference. San Juan, April 2019.
- *Invasive plants in the Caribbean: application of herbarium collections to protect a regional biodiversity hotspot*. Invited Seminar. Island Invasives Conference 2017. University of Dundee, Scotland. July 2017

PROFESSIONAL AFFILIATIONS - MEMBERSHIPS

Ecological Society of America
Botanical Society of America
The Association for Tropical Biology and Conservation
The Society of Plant Reproductive Biologists
Asociación Latinoamericana de Botánica
Sociedad Latinoamericana de Cactáceas y Suculentas

SERVICE AND OUTREACH

Reviewer for:

American Journal of Botany
Applied Ecology
Biotropica
Caribbean Journal of Science
Diversity and Distributions
Journal of Pollination Ecology
Neotropical Biodiversity
Plant Ecology
Population Ecology
The Journal of the Torrey Botanical Society
Journal of Plant Reproductive Biology
NeoBiota
Allelopathy Journal
Biological Invasions
Journal Plant Ecology
Caribbean Naturalist
Guyana Botánica
Haseltonia
Plant Ecology and Diversity
Revista de Biología Tropical
Journal Tropical Ecology
PLoS One
International Journal Plant Science
Journal of Ecology

Outreach activities and community engagement:

- Mentor for Undergraduate Students Capstone Projects. Multidisciplinary Program, University of Puerto Rico. Two undergraduate students were mentored between August 2021 and May 2022.
- Member of the Research Committee for the NGO 350-Brooklyn, NY.
- Member of the Scientific Advisory Committee for the 350-Brooklyn campaign "Stop Williams Pipeline." Brooklyn, NY.
- Member of the Latin American Society of Cactus and Succulents. Regional delegate for Costa Rica.
- Volunteer for the Forest Inventory Analysis (FIA) Survey at Mona Island. Southern Research Station and IITF US-Forest Service. April 2008.
- Mentor for the REU Program. University of Puerto Rico. 2007-2010.
- Mentor for the AKKA-SEEDS Program. ESA-SEEDS Puerto Rico Chapter. 2007-2008.
- Environmental Educator. Children and Nature Program. Fundación Neotropica. Osa Peninsula, Costa Rica. January-December 2004.
- Volunteer for the Project "Environmental Education and Interpretation in Protected Zones of Costa Rica." Barra Honda National Park. Costa Rica, June-July 2000.
- Volunteer: Association for the Protection of National Parks (ASVO Costa Rica). Costa Rica, 1997-2005.

REFERENCES

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