

FRANCISCO J. SANTIAGO-ÁVILA

EDUCATION

- Aug '15- Dec '19 **UNIVERSITY OF WISCONSIN** Madison, WI
Nelson Institute for Environmental Studies, Environment & Resources Ph.D.
Advisor: Dr. Adrian Treves
Doctoral Thesis: *An interdisciplinary evaluation of large carnivore management: The gray wolf (Canis lupus) in the Western Great Lakes*
- 2010-May '13 **DUKE UNIVERSITY** Durham, NC
Master of Public Policy, Master of Environmental Management
Advisor: Dr. Alex Pfaff
Masters Project Title: *Impact of Protected Areas on Land Cover in Mexico*
- 2003-May '08 **UNIVERSIDAD DE PUERTO RICO-RÍO PIEDRAS** San Juan, PR
Bachelor of Arts in Political Science and Economics, Magna Cum Laude

PROFESSIONAL EXPERIENCE

- Jan '22-Present **PROJECT COYOTE & THE REWILDING INSTITUTE** Madison, WI
Science & Conservation Manager
- Jan '22-Present **PAN Works** Marlborough, MA
Clerk of the Board
Team lead: Multispecies Justice Research
Team co-lead: Moral Panic (outdoor cats) Research

RESEARCH EXPERIENCE

- Jan '21-Jan '22 **NELSON INSTITUTE FOR ENVIRONMENTAL STUDIES, UW-Mad** Madison, WI
Research Associate
- Jan '20-Mar '20 **NELSON INSTITUTE FOR ENVIRONMENTAL STUDIES, UW-Mad** Madison, WI
Post-doctoral Research Fellow
- Sep '15-Dec '19 **NELSON INSTITUTE FOR ENVIRONMENTAL STUDIES** Madison, WI
Graduate Research Assistant under Prof. Adrian Treves
- Jul '13-Jul '15 **RESOURCES FOR THE FUTURE** Washington, DC
Research Assistant for Associate Research Director and Fellow Dr. Juha Siikamäki
- Aug '12-Jun '13 **SANFORD SCHOOL OF PUBLIC POLICY** Durham, NC
Research Assistant for Prof. Alex Pfaff
- May-Aug 2012 **NICHOLAS INSTITUTE FOR ENVIRONMENTAL POLICY SOLUTIONS** Durham, NC

Climate and Energy Policy Assistant under Mr. Etan Gumerman

<i>May-Aug 2011</i>	COMISIÓN NACIONAL FORESTAL & DUKE UNIVERSITY Field Supervisor/Data Analyst, Evaluation of National Payment for Ecosystem Services Program	Michoacán, MX
<i>2008-Jul 2010</i>	ESTUDIOS TÉCNICOS, INC. Research Assistant/Junior Economic Analyst	San Juan, PR

TEACHING EXPERIENCE

<i>Aug '21-Dec '21</i>	NELSON INSTITUTE FOR ENV STUDIES, UW-Madison Associate Lecturer, Introductory Ecology (ENV/ZOO/BOT 260)	Madison, WI
<i>Aug '20-Dec '20</i>	MADISON AREA TECHNICAL COLLEGE Adjunct Faculty (Part-time), Biology Department <ul style="list-style-type: none">• Environmental Science (Course catalog: #20806286)	Madison, WI
<i>Aug '17-Dec '19</i>	NELSON INSTITUTE FOR ENV STUDIES, UW-Madison Senior/Graduate Teaching Assistant <ul style="list-style-type: none">• ENVST 260 - Introductory Ecology, Fall 2017, 2018, 2019• ENVST 400 - Preserving Nature (online course), Spring & Summer 2018	Madison, WI
<i>Aug '11-May '12</i>	SANFORD SCHOOL OF PUBLIC POLICY, Duke University Graduate Teaching Assistant <ul style="list-style-type: none">• Microeconomic Policy Tools, Fall 2011• Policy choice & value conflicts, Spring 2012	Durham, NC

FELLOWSHIPS, HONORS, AWARDS & GRANTS

<i>Jan '20- Mar' 20</i>	NELSON INSTITUTE FOR ENVIRONMENTAL STUDIES, POST-DOCTORAL RESEARCH FELLOW <ul style="list-style-type: none">• Conduct research on demographics and human-caused mortality in endangered wolf populations in the USA	Madison, WI
<i>Jul 14-20, 2019</i>	ANIMAL STUDIES SUMMER INSTITUTE, ASI & UIUC <ul style="list-style-type: none">• Human-Animal Studies Summer Institute program for advanced graduate students and early career scholars pursuing research in Human-Animal Studies	Urbana-Champaign, IL
<i>Sep '15- Dec '19</i>	NELSON INSTITUTE GRADUATE RESEARCH SCHOLAR/ ADVANCED OPPORTUNITY FELLOW <ul style="list-style-type: none">• Funded from Aug '15-May '17	Madison, WI
<i>February 2017</i>	UCLA LAW SCHOOL ANIMAL LAW and POLICY SMALL GRANTS PROGRAM <ul style="list-style-type: none">• Correlating policies and human-caused mortality in an endangered carnivore species (\$3,500)	Madison, WI

ACADEMIC PUBLICATIONS

Treves, A., Santiago-Ávila, F.J. (2023). Estimating wolf abundance with unverified methods. *Pre-print*. <http://faculty.nelson.wisc.edu/treves/CCC.php>

Lynn, William S. and **Francisco J. Santiago-Ávila**. (2022) “Outdoor cats: Science, Ethics, and Politics”. In Lynn, William S., Francisco J. Santiago-Ávila and Kristin L. Stewart, eds. (2022). “Special Issue on Outdoor Cats.” *Society and Animals*.

Lynn, William S., **Francisco J. Santiago-Ávila** and Kristin L. Stewart. (2022) “Outdoor cats: An Introduction”. In Lynn, William S., Francisco J. Santiago-Ávila and Kristin L. Stewart, eds. (2022). “Special Issue on Outdoor Cats.” *Society and Animals*.

Lynn, William S., **Francisco J. Santiago-Ávila** and Kristin L. Stewart, eds. (2022). “Special Issue on Outdoor Cats.” *Society and Animals*.

Santiago-Ávila Francisco J., Suzanne Agan, Joseph W. Hinton and Adrian Treves. (2022) “Evaluating how management policies affect red wolf mortality and disappearance.” Stage 2 Registered Report. *Royal Society Open Science* 9: 210400. <http://doi.org/10.1098/rsos.210400>

Santiago-Ávila, Francisco J., and Adrian Treves. (2022). “Poaching of protected wolves fluctuated seasonally and with non-wolf hunting.” *Scientific Reports* 12, 1738. <https://doi.org/10.1038/s41598-022-05679-w>

Castelló, Pablo P. and **Francisco J. Santiago-Ávila**. (2022) “Conservation after Sovereignty: Deconstructing Australian Policies Against Horses with a Plea And Proposal.” *Hypatia*, 37(1), 136-163. doi:10.1017/hyp.2021.72

Treves, A.*, **Francisco J. Santiago-Ávila***, and Karann Putrevu. 2021. “Quantifying the effects of delisting wolves after the first state began lethal management.” *PeerJ* 9, 1–16. (*equal lead co-authors)

Santiago-Ávila, Francisco J., Suzanne Agan, Joseph W. Hinton and Adrian Treves. 2021. “Evaluating how management policies affect red wolf mortality and disappearance.” Stage 1 Registered Report, *Royal Society Open Science*.

Kopnina, Helen, Reingard Spannring, Shé Hawke, Colin D. Robertson, Alessio Thomasberger, Michelle Maloney, Marco Morini, William Lynn, Naziru Zakari Muhammad, **Francisco J. Santiago-Ávila**, Hana Begovic, Mariusz Baranowski. 2021 “Ecodemocracy in Practice : Exploration of Debates on Limits and Possibilities of Addressing Environmental Challenges within Democratic Systems.” *Visions for Sustainability*. **15**, 1–20. (doi:10.13135/2384-8677/5832)

Santiago-Ávila, Francisco J. and Adrian Treves. 2021. Towards multispecies justice in human-wildlife coexistence: a reply to Clark et al. *Conservation Biology* (in press).

Louchouart Naomi*, **Santiago-Ávila, Francisco J. ***, David R. Parsons and Adrian Treves. 2021 “Evaluating how lethal management affects poaching of Mexican wolves.” Stage 2 Registered Report, *Royal Society Open Science* **8**. (doi:<https://doi.org/10.1098/rsos.200330>) (*equal lead co-authors)

Santiago-Ávila, Francisco J., Adrian Treves and William S. Lynn. 2020. “Just preservation, trusteeship and multispecies justice: Response to Commentary on *Just Preservation*.” *Animal Sentience*.

Santiago-Ávila, Francisco J. *, Naomi Louchouart*, David R. Parsons and Adrian Treves. 2020 “Evaluating how lethal management affects the illegal killing of Mexican wolves.” Stage 1 Registered Report, *Royal Society Open Science*. (*equal lead co-authors)

Santiago-Ávila, Francisco J., Richard J Chappell, and Adrian Treves. 2020. “Liberalizing the Killing of Endangered Wolves Was Associated with More Disappearances of Collared Individuals in Wisconsin, USA.” *Scientific Reports*, 1–14. <https://doi.org/10.1038/s41598-020-70837-x>.

Santiago-Ávila, F. J. 2020. “Muddled Facts and Values: Positivism, Egoism, and Anthropocentrism in the Anthropocene” *Society & Animals*, 28(4), 420-429. doi: <https://doi.org/10.1163/15685306-BJA10020>

Treves, Adrian, Naomi Louchouart and **Francisco J. Santiago-Ávila**. 2020. “Modelling concerns confound evaluations of legal wolf-killing”. *Biological Conservation*.

Santiago-Ávila, Francisco J., and William S. Lynn. 2020. “Bridging compassion and justice in conservation ethics.” *Biological Conservation* 248.

Lynn, William S., **Francisco J. Santiago-Ávila**, John Hadidian, Arian Wallach and Joann Lindenmayer, 2020. “Misunderstandings of science and ethics in the moral panic over cats: reply to Crespin et al. 2020.” *Conservation Biology*.

Treves, Adrian, and **Francisco Santiago-Ávila**. 2020. “Myths and assumptions about human-wildlife conflict and coexistence.” *Conservation Biology*.

Wallach, Arian D, Chelsea Batavia, Marc Bekoff, Shelley Alexander, Liv Baker, Dror Ben-Ami, Louise Boronyak... **Francisco J. Santiago-Ávila et al.** 2020. “Recognizing Animal Personhood in Compassionate Conservation.” *Conservation Biology*.

Santiago-Ávila, Francisco J. “An interdisciplinary evaluation of large carnivore management: the gray wolf in the Western Gray Lakes” (PhD dissertation). University of Wisconsin-Madison (2019).

Treves, Adrian, **Francisco J. Santiago-Ávila**, Viorel D. Popescu, Paul C. Paquet, William S. Lynn, Chris T. Darimont, and Kyle A. Artelle. 2019. “Trophy Hunting: Insufficient Evidence.” Edited by Jennifer Sills. *Science* 366 (6464): 435 LP – 435. <https://doi.org/10.1126/science.aaz4389>.

Lynn, William S, **Francisco Santiago-Ávila**, Joann Lindenmayer, John Hadidian, Arian Wallach and Barbara J King. “A Moral Panic over Cats.” *Conservation Biology* 00, no. 0 (2019): 1–8. <https://doi.org/10.1111/cobi.13346>.

Ohrens, Omar, **Francisco Santiago-Ávila**, and Adrian Treves. “The Twin Challenges of Preventing Real and Perceived Threats to Human Interests.” In *Human-Wildlife Interactions: Turning Conflict into Coexistence*, edited by Beatrice Frank, Jenny A. Glikman, and Silvio Marchini, 242–64. Cambridge, UK: Cambridge University Press, 2019.

Treves, Adrian, **Francisco J. Santiago-Ávila**, and William S. Lynn (**equal co-authors**). “Just Preservation.” *Biological Conservation* 229 (2018): 134–41. <https://doi.org/10.1016/j.biocon.2018.11.018>. Reprinted in *Animal Sentience* (2019): 27(1). <https://animalstudiesrepository.org/animalsent/vol4/iss27/1/>

Santiago-Ávila, Francisco J., Ari M. Cornman, and Adrian Treves. “Killing Wolves to Prevent Predation on Livestock May Protect One Farm but Harm Neighbors.” *PLoS ONE* 13, no. 1 (2018): 1–20. <https://doi.org/10.1371/journal.pone.0189729>.

Santiago-Ávila, Francisco J., William S. Lynn, and Adrian Treves. “Inappropriate Consideration of Animal Interests in Predator Management: Towards a Comprehensive Moral Code.” In *Large Carnivore Conservation and Management: Human Dimensions and Governance*, edited by Tasos Hovardas, 227–51. New York: Routledge, 2018.

Treves, Adrian, Kyle A. Artelle, Chris T. Darimont, William S. Lynn, Paul Paquet, **Francisco J. Santiago-Ávila**, Rance Shaw, and Mary C. Wood. “Intergenerational Equity Can Help to Prevent Climate Change and Extinction.” *Nature Ecology and Evolution* 2, no. 2 (2018). <https://doi.org/10.1038/s41559-018-0465-y>.

Pfaff, Alexander*, **Francisco Santiago-Ávila*** (*equal co-author), and Lucas Joppa. “Evolving Protected-Area Impacts in Mexico: Political Shifts as Suggested by Impact Evaluations.” *Forests* 8, no. 1 (2017). <https://doi.org/10.3390/f8010017>.

Siikamäki, J. V., Vail, P., Epanchin-Niell, R., & **Santiago-Ávila, F.** (2015). *Mapping the Value of Ecosystem Services in Latin America and the Caribbean*. Resources Magazine.

Siikamäki J., **Santiago-Ávila F.** & Vail, P. (2015). *Global Assessment of Non-wood Forest Ecosystem Services*. Resources For the Future & World Bank.

Siikamäki, J. & **Santiago-Ávila, F.** (2014). *Improving the Forest Database to Support Sustainable Forest Management: A Scoping Study Final Report*. Resources For the Future & PROFOR, the World Bank. Retrieved from: http://www.profor.info/sites/profor.info/files/docs/Forest%20Wealth_WEB_08%2005.pdf.

POPULAR LITERATURE

Santiago-Ávila, Francisco J., Renee Seacor and Michelle Lute. “Don’t Leave Wolf Hunting Up To Experts”. The Daily Sentinel, Grand Junction, Colorado. October 9, 2022. https://www.gjsentinel.com/opinion/columns/dont-leave-wolf-hunting-up-to-experts/article_bbf8df82-4695-11ed-8b1d-8b7044398073.html

Santiago-Ávila, Francisco J. and Amy Mueller. “Opinion: Public input on wildlife issues derailed by illegitimate special interests”. Price County Review, Wisconsin. September 15, 2022. https://www.apg-wi.com/price_county_review/opinion-public-input-on-wildlife-issues-derailed-by-illegitimate-special-interests/article_625d4207-efa3-5998-b34b-291686a15198.html (also appeared in: Duluth Reader, print edition, September 15, 2022, and Silent Sports Magazine, December Issue)

Santiago-Ávila, Francisco J., Liv Baker, Kristin L. Stewart, and William S. Lynn. “Science & Ethics Agree, Coexistence Must Replace Killing Wolves: Parts 1 & 2” People, Animals and Nature *Medium*. February 17 and 24, 2022. <https://panworks.medium.com/science-and-ethics-agree-coexistence-must-replace-killing-wolves-part-1-a5a6b88b1496> ; <https://panworks.medium.com/science-and-ethics-agree-coexistence-must-replace-killing-wolves-part-2-2c3effdb3faf>

Lynn, William S., **Francisco J. Santiago-Ávila**, Arian Wallach, and Joanne Lindenmayer. 2020. “Don’t Blame Cats for Destroying Wildlife – Shaky Logic is Leading to Moral Panic.” *The Conversation*.

<https://theconversation.com/dont-blame-cats-for-destroying-wildlife-shaky-logic-is-leading-to-moral-panic-138710>

Contribution to: *Conflict Exploration: Culling Hyenas to Save Horses* (2019).

<https://medium.com/@ConservConflict/conflict-exploration-culling-hyenas-to-save-horses-686cf3b17c29>

Santiago-Ávila, Francisco J., and William S. Lynn. 2019. "Multispecies Ethics are Messy: Five Questions for William Lynn." *Edge Effects*, <https://edgeeffects.net/william-lynn/>.

PRESENTATIONS

Lute, ML, **F.J. Santiago-Ávila**. "Reforming Conservation Governance to Promote Coexistence and Multi-species Justice." Part of the Symposia—Where Psychology, Ecology and Ethics Meet on the Road to Coexistence. International Wildlife Coexistence Conference. Chico Springs, MT. October 18, 2022.

Santiago-Ávila, F.J. "Beyond species counts: nonhuman values, conservation and rewilding." Webinar, Project Coyote & The Rewilding Institute. October 12, 2022.

<https://www.youtube.com/watch?v=0fBlGcC0OOs>

Santiago-Ávila, F.J. "Respecting Otherness: From Wolves To All Animals." Speak For Wolves 2022 Conference. March 31, 2022. <https://www.youtube.com/watch?v=-rEJ87Pbjtg>

Lute, ML, **F.J. Santiago-Ávila**. "Reforming Conservation Governance to Restore Resiliency and Multi-species Justice." North American Congress for Conservation Biology. Reno, NV. July 18, 2022.

Santiago-Ávila, F.J. "Science & Ethics Agree: Coexistence Must Replace Killing Wolves." Webinar, Lobo Week 2022. Wolf Conservation Center. March 31, 2022. <https://nywolf.org/science-and-ethics-agree-coexistence-must-replace-killing-wolves/>

Santiago-Ávila, F.J. "Killing wolves to prevent predation on domestic ungulates may help one farm but harm neighbors." Compassionate Conservation Middle East Conference, Coexistence with Predators Symposium, Katzrin, Israel. December 14, 2018.

Santiago-Ávila, F.J. "Killing wolves to prevent predation on domestic ungulates may help one farm but harm neighbors." 12th Annual Earth Day Conference, Nelson Institute for Environmental Studies, University of Wisconsin – Madison, Madison, WI. April 23, 2018.

Santiago-Ávila, F.J. (on behalf of co-authors Alexander Pfaff & Lucas Joppa) "Protected Areas' Impacts Upon Land Cover in Mexico." American Agricultural Economics Association Annual Meeting, University of Minnesota, Minneapolis, MN. July 28, 2014.

SKILLS

Languages: Fluent in Spanish, English

Skills: Policy analysis, interspecies ethics, STATA®, R, (Arc)GIS, statistical analysis, survival analysis, non-market valuation, survey development and implementation, environmental program management & evaluation, adaptive conservation planning, human-wildlife conflict mitigation