

Ramiro Daniel Crego
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 Environmental Research Institute
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PERSONAL INFORMATION

Date of birth: 26/02/1984

Citizenship: Argentina

Residency: Ireland

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RESEARCH INTERESTS

Ecology, conservation biology, vertebrate ecology and natural history, biological invasions, movement ecology, restoration ecology, hierarchical models, species distribution models, biocultural conservation, environmental ethics.

EDUCATION

- 2013-2017 **Ph.D. Biology**, University of North Texas, Department of Biological Sciences, Denton, TX, USA. Advisor: Dr. Jaime E. Jiménez. GPA: 4/4
Dissertation title: Niche expansion of an invasive predator (*Neovison vison*), prey response, and facilitative interactions with other invasive mammals at the southern end of the Americas: Conservation challenges and potential solutions.
- 2010-2012 **M.S. Forestry**, Southern Illinois University Carbondale, Department of Forestry, Carbondale, IL, USA. Advisor: Dr. Clayton K. Nielsen. GPA: 3.88/4
Thesis title: Modeling the distribution of meadows in arid and semi-arid Patagonia, Argentina: assessing current distribution and predicting response to climate change.
- 2002-2008 **B.S. Biology**, specialized in Zoology. College of Natural Sciences and Museum Studies, National University of La Plata, La Plata, Buenos Aires, Argentina. GPA: 8.8/10

PROFESSIONAL EXPERIENCE

- 2023-current **Lecturer in Zoology/Animal Ecology**, School of Biological, Earth & Environmental Sciences, University College Cork, Ireland
- 2023 **Post-Doctoral Research**, RENECO International Wildlife Consultant, Abu Dhabi, United Arab Emirates.
- 2022 **Data Analyst**, Giraffe Conservation Foundation, Florida, USA.
- 2018-2022 **Post-Doctoral Research Fellow**, Smithsonian Conservation Biology Institute, Conservation Ecology Center, National Zoological Park, Front Royal, VA, USA.
- 2016-2017 **Graduate Teaching Assistant**, University of North Texas, Denton, TX, USA.
- 2013-2017 **Graduate Toulouse Fellow**, University of North Texas, Denton, TX, USA.
- 2010-2012 **Graduate Research Assistant**, Cooperative Wildlife Research Lab, Southern Illinois University Carbondale, Carbondale, IL, USA.
- 2008-2010 **Field and Lab Technician Supervisor**: M.S. Emiliano Donadio; Program in Ecology & Department of Zoology and Physiology, University of Wyoming, USA. **Project:**



The interactions among pumas, wild camelids, and grasses in the high plateaus of the Andes, Argentina.












AWARDS AND HONORS

















- 2014 National Scholarship and Distinguished Placement Student Award. University of North Texas, Denton, Texas, USA.
- 2012 Alan Wolf Outstanding M.S. Student of the Year Award for 2011. Cooperative Wildlife Research Laboratory, Southern Illinois University Carbondale, Carbondale, Illinois, USA.
- 2008 Joaquín V. González award for being among the 10 best GPAs in College. Municipality of La Plata, La Plata, Buenos Aires, Argentina.

PEER-REVIEWED PUBLICATIONS

Google Scholar: Citations: 426; h-index: 14

35. **Crego RD**, Hernández-Yáñez H, Rabeil T, Hingrat Y, Leimgruber P, Stabach JA. 2023. Non-systematic surveys reveal increases in areas occupied by endangered and data-deficient Nubian bustard. *Global Ecology & Conservation*. e02682. <https://doi.org/10.1016/j.gecco.2023.e02682>
34. **Crego RD**, Wells H, Connette G, Stabach JA, Naitareu S, Thompson S. 2023. Monitoring spatiotemporal dynamics of large herbivores across an African rangeland using hierarchical multi-species distance sampling. *African Journal of Ecology*. <https://doi.org/10.1111/aje.13219>
33. Imron MA, Glass DM, Tafrichan M, **Crego RD**, Stabach JA, Leimgruber P. 2023. Beyond protected areas: The importance of mixed-use landscapes for the conservation of Sumatran elephants (*Elephas maximus sumatranus*). *Ecology and Evolution*. <https://doi.org/10.1002/ece3.10560> 
32. **Crego RD**, Fennessy J, Brown MB, Connette G, Stacy-Dawes J, Masiaine S, Stabach JA. 2023. Combining species distribution models and moderate resolution satellite information to guide conservation programs for reticulated giraffe. *Animal Conservation*. DOI: 10.1111/ACV.12894 
31. Brown M, Fennessy J, **Crego RD**, Fleming C, Alves J, Brandlová K, Fennessy S, Ferguson S Hauptfleisch M, Hejcmanová P, Hoffman R, Leimgruber P, Masiaine S, McQualter K, Mueller T, Muller B, Muneza A, O'Connor D, Olivier A, Rabeil T, Seager S, Stacy-Dawes J, van Schalkwyk L, Stabach JA. 2023. Ranging behaviours across ecological and anthropogenic disturbance gradients: a pan-African perspective of giraffe (*Giraffa* spp.) space use. *Proc. R. Soc. B* 290: 20230912. <https://doi.org/10.1098/rspb.2023.0912> 
30. Wells H, **Crego RD**, Alston J, Ndung'u SK, Khasoha L, Reed C, Hassan A, Kurukura S, Ekadeli, J, Namoni M, Kartzinel T, Palmer T, Pringle R, Goheen J, Stewart P, Kimuyu D, Wolf A, Young T. 2022. Wild herbivores enhance resistance to invasion by exotic cacti in an African savanna. *Journal of Ecology* 111, 33-34. doi:10.1111/1365-2745.14010. *Shared first authorship. Journal cover.* 
29. Rozzi R, Quilodrán CS, Botero-Delgadillo E, **Crego RD**, Napolitano C, Barroso O, MacKenzie R, Torres-Mura JC, Bravo C, Ippi S, Quirici V, Rivero-de-Aguilar J, Suazo CG, Goffinet B, Kempenaers B, Poulin E, Vásquez RA. 2022. *Aphrastura subantarctica*: the Subantarctic Rayadito, a new bird species on the Southernmost islands of the Americas. *Scientific Reports*. 12:13957. <https://doi.org/10.1038/s41598-022-17985-4> 
28. Stabach JA, Hughey LF, **Crego RD**, Fleming CH, Hopcraft JGC, Leimgruber P, Morrison TA, Ogutu JO, Reid RS, Worden JS, Boone RB. 2022. Increasing anthropogenic disturbance restricts wildebeest movement across East African grazing systems. *Frontiers in Ecology and Evolution*. 10:846171. doi:10.3389/fevo.2022.846171 


27. Monk JD, Smith JA, Donadio E, Perrig PL, **Crego RD**, Fileni M, Bidder O, Lambertucci SA, Pauli JN, Schmitz OJ, Middleton AD. 2022. Cascading effects of a disease outbreak in a remote protected area. *Ecology Letters*. DOI: 10.1111/ele.13983 
26. **Crego RD**, Stabach JA, Connette G. 2022. Implementation of species distribution models in Google Earth Engine. *Diversity and Distributions*. DOI: 10.1111/ddi.13491 
25. Wells H, **Crego RD**, Ekadeli J, Namoni M, Kimuyu D, Odadi W, Porensky L, Dougill AJ, Stringer L, Young T. 2022. Less is more: Lowering cattle stocking rates enhances wild herbivore habitat use and cattle foraging efficiency. *Frontiers in Ecology and Evolution*. 10:825689. doi: 10.3389/fevo.2022.825689 
24. Bhandari S, **Crego RD**, Stabach JA. 2022. Spatial segregation between wild ungulates and livestock outside protected areas in the lowlands of Nepal. *PlosOne*. 17(1): e0263122. <https://doi.org/10.1371/journal.pone.0263122> 
23. **Crego RD**, Masolele MM., Connette G., Stabach JA. 2021. Enhancing animal movement analyses: Spatiotemporal matching of animal positions with remotely sensed data using Google Earth Engine and R. *Remote Sensing*. 13(20), 4154; <https://doi.org/10.3390/rs13204154> 
22. Wells H, **Crego RD**, Opedal Ø, Khasoha L, Alston J, Reed C, Weiner S, Kurukura S, Hassan A, Namoni M, Ekadeli J, Kimuyu D, Young T, Kartzinel T, Palmer T, Pringle R, Goheen J. 2021. Experimental evidence that effects of megaherbivores on mesoherbivore space use are influenced by species' traits. *Journal of Animal Ecology* 90:2510–2522 DOI: 10.1111/1365-2656.13565. *Journal cover*. 
21. **Crego RD**, Wells HBM, Ndung'u KS, Evans L, Njeri Nduguta R, Chege MA, Brown MB, Ogutu JO, Ojwang GO, Fennessy J, O'Connor D, Stacy-Dawes J, Rubenstein DI, Martins DJ, Leimgruber P and Stabach JA. 2021. Moving through the mosaic: Identifying critical linkage zones for herbivores in African multiple-use landscapes. *Landscape Ecology* 36(5), 1325-1340 <https://doi.org/10.1007/s10980-021-01232-8> 
20. Barroso O, **Crego RD**, Mella J, Rosenfeld S, Contador T, Mackenzie R, Vásquez RA and Rozzi R. 2021. Colaboración científica con la Armada de Chile en estudios ornitológicos a largo plazo en el archipiélago Diego Ramírez: primer monitoreo del ciclo anual del ensamble de aves en la isla Gonzalo. *Anales del Instituto de la Patagonia*, 48(3), 149-168. <http://www.analesdelinstitutodelapatagonia.cl/index.php/analespatagonia/article/view/944> 
19. Rozzi R, **Crego RD**, Contador T, Schüttler E, Rosenfeld S, Mackenzie R, Barroso O, Silva-Rodríguez EA, Álvarez-Bustos X, Silva A, Ramírez I, Mella J, Herreros J, Rendoll Cárcamo J, Marambio J, Ojeda J, Méndez F, Moses KP, Kennedy J, Rusell S, Goffinet B, Sancho LG, Berchez F, Buma B, Aguirre F, Sánchez-Jardón L, Barros E, Vásquez RA, T K Arroyo M, Poulin E, Squeo F, Armesto JJ, Mansilla A and Massardo F. 2021. Un centinela para el monitoreo del cambio climático y su impacto sobre la biodiversidad en la cumbre austral de América: la nueva red de estudios a largo Plazo Cabo de Hornos. *Anales del Instituto de la Patagonia*, 48(3), 45-81. <http://www.analesdelinstitutodelapatagonia.cl/index.php/analespatagonia/article/view/939> 
18. **Crego RD**, Ogutu JO, Wells HBM, Ojwang GO, Martins DJ, Leimgruber P, Stabach JA. 2020. Spatiotemporal dynamics of wild herbivore species richness and occupancy across a savannah rangeland: Implications for conservation. *Biological Conservation* 242:108436. <https://doi.org/10.1016/j.biocon.2020.108436> 
17. **Crego RD**, Jiménez JE, and Rozzi R. 2020. Contrary to expectation, the invasive mink did not affect nesting survival of forest native birds. *Ornitología Neotropical* 31: 88-97. 

16. Jara RF, **Crego RD**, Samuel MD, Rozzi R, Jimenez JE. 2020. Nest-site selection and breeding success of passerines in the world's southernmost forest. *PeerJ* <https://peerj.com/articles/9892/> 
15. Jara RF, **Crego RD**, Arellano FJ, Altamirano TA, Ibarra JT, Rozzi R, Jimenez JE. 2019. Breeding strategies of open-cup-nesting birds in Sub-Antarctic forest of Navarino Island. *Revista Chilena de Historia Natural* 92:2 <https://doi.org/10.1186/s40693-019-0082-4> 
14. Schüttler E., **Crego RD**, Saavedra L, Silva-Rodríguez EA, Soto N, Jiménez JE and Rozzi R. 2019. New records of invasive exotic mammals from the sub-Antarctic Cape Horn Archipelago. *Polar Biology* 42: 1093-1105. <https://doi.org/10.1007/s00300-019-02497-1> 
13. **Crego RD**, Ward N, Jiménez JE, Massardo F and Rozzi R. 2018. Los ojos del árbol: percibiendo, registrando, comprendiendo y contrarrestando las invasiones biológicas en tiempos de rápida homogeneización biocultural. *Magallania* 46: 137-153. 
12. **Crego RD**, Jiménez JE and Rozzi R. 2018. Potential niche expansion of the American mink invading a remote island free of native-predatory mammals. *Plos One* 13: p.e0194745 DOI: 10.1371/journal.pone.0194745 
11. **Crego RD**, Jiménez JE and Rozzi R. 2018. Macro- and micro-habitat selection of small rodents and their predation risk perception under a novel invasive predator at the southern end of the Americas. *Mammal Research*. 63: 267-275. DOI: 10.1007/s13364-018-0361-5 
10. Castillo SP, **Crego RD**, Jiménez JE and Rozzi R. 2017. Native-predator invasive-prey trophic interactions in Tierra del Fuego: the beginning of biological resistance? *Ecology (Scientific Naturalis)*, 98: 2485-2489. DOI: 10.1002/ecy.1873 
9. **Crego RD**, Jiménez JE and Rozzi R. 2016. A synergistic trio of invasive mammals? Facilitative interactions among beavers, muskrats, and mink at the southern end of the Americas. *Biological Invasions*, 18: 1923-1938. 
8. Cárcamo JR, Contador T, **Crego RD**, Jordán NI, Schüttler E, Gañán M, Jiménez JE, Rozzi R, Massardo F and Kennedy JH. 2016. Primer registro de *Vespula vulgaris* (Linnaeus 1758) (Hymenoptera: Vespidae) en la isla Navarino, Chile. *Guyana*, 80: 133-136. 
7. **Crego RD**, Jiménez JE and Rozzi R. 2015. Expansión de la invasión del Visón Norteamericano (*Neovison vison*) en la Reserva de la Biosfera de Cabo de Hornos, Chile. *Anales del Instituto de la Patagonia*, 43: 1-6. 
6. Rozzi R, Massardo F, Contador T, **Crego RD**, Méndez M, Rijal R, Cavieres L and Jiménez JE. 2014. Filosofía ambiental de campo: ecología y ética en las redes LTER-Chile e ILTER. *Bosque*, 35: 439-447. 
5. Jiménez JE, **Crego RD**, Soto GE, Román I, Rozzi R and Vergara PM. 2014. Potential impact of the alien American mink (*Neovison vison*) on Magellanic woodpeckers (*Campephilus magallanicus*) in Navarino Island, southern Chile. *Biological Invasions*, 16: 961-966. 
4. **Crego RD**, Nielsen CK and Didier KA. 2014. Climate change and conservation implications for wet meadows in dry Patagonia. *Environmental Conservation*, 41: 122-131. 
3. **Crego RD**, Didier KA and Nielsen CK. 2014. Modeling meadow distribution for conservation action in arid and semi-arid Patagonia, Argentina. *Journal of Arid Environments*, 102: 68-75. 
2. Donadio E, Ruiz Blanco M, **Crego RD**, Buskirk SW and Novaro AJ. 2012. Capturing and radio ear-tagging neonatal vicuñas. *Wildlife Society Bulletin*, 36: 119-123. 
1. **Crego RD** and Macri I. 2009. Una técnica para la estimación de la densidad y el monitoreo de poblaciones de inambú común (*Nothura maculosa*) en ambientes de pastizal. *El Hornero*, 24: 31-35. 

PUBLICATIONS UNDER REVIEW**BOOKS**

Contador, TA, Méndez M, Medina Y, Ojeda J, Barroso O, **Crego R**, Van de Maele M and Gonzalez J. 2014. Río Róbalo, Comunidad de Vida. 124 pp. ISBN: 978-956-358-250-5.




PEER-REVIEWED BOOKS CHAPTERS

1. **Crego RD**, Ward N, and Rozzi R. 2023. The eyes of the tree: Applying field environmental philosophy to tackle conservation problems at Long Term Socio-ecological Research sites. In Rozzi R, Tauro A, Avriel-Avni N, May Jr. JR. (Eds). *Field Environmental Philosophy: Education for Biocultural Conservation* pp. 233-243 Dordrecht, Netherlands: Springer.
2. **Crego RD**, Jiménez JE, and Rozzi R. 2018. Fur trade and the biotic homogenization of sub-polar ecosystems. In Rozzi R, May Jr. JR, Chapin R, Massardo F, Gavin M, Klaver I, Pauchard A, Núñez M, Groffman P and Simberloff D. (Eds). *From biocultural homogenization to biocultural conservation*. pp. 233-243 Dordrecht, Netherlands: Springer. 

TECHNICAL REPORTS

3. Rozzi R., F. Massardo, A. Mansilla, F.A. Squeo, E. Barros, T. Contador, M. Frangopulos, E. Poulin, S. Rosenfeld, B. Goffinet, C. González-Weaver, R. MacKenzie, **R.D. Crego**, F. Viddi, J. Naretto, M.R. Gallardo, J.E. Jiménez, J. Marambio, C. Pérez, J.P. Rodríguez, F. Méndez, O. Barroso, J. Rendoll, E. Schüttler, J. Kennedy, P. Convey, S. Russell, F. Berchez, P.Y.G. Sumida, P. Rundell, A. Rozzi, J. Armesto, M. Kalin-Arroyo and M. Martinic. 2017. Parque Marino Cabo de Hornos – Diego Ramírez. Technical report to the proposal for creation of the Cape Horn – Diego Ramírez Marine Park. Programa de Conservación Biocultural Subantártica, Ediciones Universidad de Magallanes, Punta Arenas, Chile. https://issuu.com/umag9/docs/ebook_low_parque_marino_umag_fin_di
2. **Crego RD** and Jiménez JE. 2013. A report about the study of ecological aspects of the exotic American mink (*Neovison vison*) in Navarino Island, Chile. Department of Biological Sciences, University of North Texas, Denton, TX, USA. 50 pp.
1. Donadio E., **Crego RD**, Vitali M, Ruiz Blanco MC, Zanon J, Salvador V, Veinticinco MJ and Guido J. 2009. Abundances changes of natives and exotics herbivores in respond to donkey removal in Los Cardones National Park, Salta, Argentina. Technical report for the National Park Administration, 28 pp.

OTHER PUBLICATIONS

4. Rozzi R, Quilodrán CS, Botero-Delgado E, **Crego RD**, Napolitano C, Barroso O, Torres-Mura JC and Vásquez RA (2022). El Rayadito subantártico: disponibilidad del binomio *Aphrastura subantarctica* (Passeriformes, Furnariidae). *Boletín Museo Nacional De Historia Natural*, 71(2), 9–15. <https://doi.org/10.54830/bmnhn.v71.n2.2022.222> 
3. Aguirre G, Ayala C, Baruch Z, Bizama G, Bozzi J, Bustamante RO (Ed.), Canessa R, Castillo ML, Chiuffo M, **Crego RD**, C R de Abreu R, Duarte M, Escobedo VM, Fabricante J, Gonclaves E (Ed.), Gorgone E, Guerrido C, Herrera I (Ed.), Longo S, Lozano V, Martin V, Nouhra E, Pauchard A (Ed.), Pissolito C, Ramírez J, Salas M, Suarez C, Taylor K, Torres N, Urcelay C, Vega J & Villaseñor-Parada C. 2016. Manual de plantas invasoras de sudamérica. 116 pp. ISBN 978-956-362-998-9. 
2. **Crego RD**. 2015. Chile's foreign invaders. *Sunstruck magazine*, 1: 14-19. 

1. **Crego RD**, Jiménez JE, Soto C, Barroso O and Rozzi R. 2014. Tendencias poblacionales del visón norteamericano invasor (*Neovison vison*) y sus principales presas nativas desde su arribo a isla Navarino, Chile. *Boletín de la Red Latinoamericana para el Estudio de Especies Invasoras*, 4: 4-18.



GRANTS

TOTAL RECEIVED: US\$ 872,150

- 2023 Stabach J, Connette G, Hughey L, Huang, Q, **Crego RD**, Thomson, S, Wall, J, Amoke I. An Ecological Toolbox to Inform Livestock Grazing Allotments Across Wildlife Conservancies in Kenya NNH22ZDA001N-ECON: A.40 Earth Science Applications: Ecological Conservation (US\$ 641,281)
- 2020 Schüttler E, **Crego RD**, Flores G, Jaksic F. Prioritization of control sites for invasive American mink for the conservation of reproducing ground-nesting coastal birds, Southern Chile. Center of Applied Ecology and Sustainability (CAPES), ANID PIA/BASAL FB0002 (Chi\$ 10.000.000, approximately US\$13,252).
- 2020 Connette G, Stabach J, Lacher I, **Crego RD**, Hughey L, Vanthomme H, Sanchez Cuervo AM, Connette K, Songer M. Hindsight is 20/20, but foresight is even better: Developing a ‘mass market’ approach to conservation scenario modeling with Google Earth Engine. Working Land and Seascapes Amplification and Innovation Grant. (US\$ 195,041).
- 2016 **Crego RD**. Toulouse Graduate School Travel Grant, University of North Texas (US\$ 600).
- 2015/16 **Crego RD**. Graduate Student Support Grants. Sponsored by College of Arts and Sciences, University of North Texas (US\$ 600).
- 2014 **Crego RD**. Predatory impacts and variables determining the spatiotemporal occupancy of the invasive American mink (*Neovison vison*) on a pristine island ecosystem in Southern Chile. Idea Wild (US\$ 550).
- 2014 **Crego RD**. Predatory impacts and variables determining the spatiotemporal occupancy of the invasive American mink (*Neovison vison*) on a pristine island in Southern Chile. The Rufford Foundation - (RF) (US\$ 5,000). http://www.rufford.org/projects/ramiro_daniel_crego
- 2013 **Crego RD**. Predatory impacts and variables determining the spatiotemporal occupancy of the invasive American mink (*Neovison vison*) on a pristine island ecosystem in Southern Chile. Conservation, Research and Education Opportunities International (CREOi) (US\$ 8,726).
- 2013 **Crego RD**. Predatory impacts and variables determining the spatiotemporal occupancy of the invasive American mink (*Neovison vison*) on a pristine island ecosystem in Southern Chile. Robert Toulouse Graduate School, University of North Texas, TX, USA. (US\$ 500).
- 2011 **Crego RD**, Nielsen CK and Didier K. A project to model the distribution of wet meadows in arid and semi-arid Patagonia, Argentina: assessing current distribution and predicting response to climate change. Organization of Fish & Wildlife Information Managers Student Awards. (US\$ 1,000).
- 2007 Juarez MC, Carro N, Fernández Baleztena HA, Gómez NG, Morales RH, **Crego RD**, Amaya JP, Frias G, Funes AI, Ruiz Blanco M, et al. EducaZoo. Ministerio de Educación de la Nación Argentina. (Arg\$ 15,000; approximately US\$ 5,000).

INVITED TALKS AND SEMINARS

- 2023 Guest speaker: Earth Observation Working group, The Nature Conservancy, USA. *Google Earth Engine for Ecologists and Practitioners*.
- 2022 Guest speaker: Sistemas ambientales y sociedad dentro del curso técnico terciario Tecnicatura en Control Ambiental. Universidad del Trabajo del Uruguay (DGETP-

- UTU). *Los herbívoros silvestres confieren Resistencia a invasión biológica por parte de cactus. Implicancias para el manejo y restauración ecológica.*
- 2022 Seminar: School of Biological, Earth and Environmental Sciences Seminar, College Cork University, Cork, Ireland. *Beyond protected areas: Applying spatial ecology for wildlife conservation in African private and communal lands.*
- 2016-2023 Guest lecture: Mammalogy (BIOL 4005/5005, Dr. Jaime Jimenez) University of North Texas, TX, USA. *From the pole to the equator: population dynamics of invasive mammals in the southernmost forests (Navarino Island, Chile) and interactions between livestock and wild herbivores on African private and communal lands.*
- 2021 Guest speaker: Kenya Nature Public (Virtual) Talks. *Why Landscape Connectivity is Key for Conservation.* This presentation was in conjunction with Amos Chege Muthiuru from the African Wildlife Foundation.
- 2021 Guest speaker: Smithsonian Conservation Biology Institute Front Royal Seminar, Front Royal, VA, USA. *Moving through the mosaic: Identifying critical linkage zones for herbivores in African multiple-use landscapes.*
- 2018-2021 Guest lecture: Programa de Magister en Ciencias mención en Manejo de Recursos Naturales en Ambientes Subantárticos y Programa de Doctorado en Ciencias Antárticas y Subantárticas, Universidad de Magallanes, Punta Arenas, Chile (Dr. Elke Shüttler and Dr. Roy MacKenzie). *New conservation vs old conservation. The future of conservation science.*
- 2020 Seminar: College of Natural Sciences and Museum Studies, National University of La Plata, La Plata, Buenos Aires, Argentina. *From the pole to the equator: population dynamics of invasive mammals in the southernmost forests (Navarino Island, Chile) and interactions between livestock and wild herbivores on private and communal lands of Central Africa (Laikipia, Kenya).*
- 2020 Seminar: Smithsonian Conservation Biology Institute Front Royal Seminar, Front Royal, VA, USA. *Beyond protected areas: Applying spatial ecology for wildlife conservation in African private and communal lands.*
- 2018 Seminar: Ewaso Enterprise Partnership Meeting, Conservation Research Working Group Kick-off Meeting, Laikipia, Kenya. *Identifying connectivity across the savannah rangelands of Laikipia to conserve wild herbivores and ecosystem integrity.*
- 2018 Guest lecture: Programa de Magister en Ciencias mención en Manejo de Recursos Naturales en Ambientes Subantárticos y Programa de Doctorado en Ciencias Antárticas y Subantárticas, Universidad de Magallanes, Punta Arenas, Chile (Dr. Elke Shüttler and Dr. Tamara Contador). *Invasive mammals on Navarino Island.*
- 2017 Seminar: The National Great Rivers Research and Educational Center Seminar Series, East Alton, Illinois, USA. *Niche expansion of an invasive predator and facilitative interactions with other invasive mammals at the southern end of the Americas.*
- 2016 Guest lecture: Introduction to Sub-Antarctic Biocultural Conservation (BIOL 4053/5053; PHIL 4053/6780, Dr. Jaime Jiménez and Dr. Ricardo Rozzi) University of North Texas, TX, USA. *The eyes of the tree. Perceiving, monitoring, understanding, and countering biological invasions in times of quick biocultural homogenization.*
- 2014-15 Guest lecture: Diplomado en Asuntos Antárticos de la Universidad de Magallanes organizado por Gaia-Antártica conocimiento y cultura antártica. Universidad de Magallanes, Punta Arenas, Chile. *Invasive species.*
- 2014 Presentation: Academic-Scientific Seminar: Research and Conservation Experiences in the Beagle Channel Area, Pt. Williams, Chile. *Research at the southernmost Long Term Socio-Ecological Research site, the Omora Ethnobotanical Park.*

- 2014 Presentation: Sub-Antarctic Biocultural Conservation Program, Pt. Williams, Chile. *The last invader: ecology and depredatory effects of the American mink in Navarino Island.*
- 2013 Guest lecture: Instituto de Educación Superior N°10 "Dr. Osvaldo M. Zarini", Tandil, Buenos Aires, Argentina. *Conservation biology.*
- 2012 Presentation: Wildlife Conservation Society. Online presentation. *Modeling the distribution of wet meadows and impacts of climate change in Argentine Patagonia.*
- 2012 Presentation: Department of Biological Sciences, University of North Texas, Denton, Texas, USA. *Modeling the distribution of meadows in arid and semi-arid Patagonia, Argentina: assessing current distribution and predicting response to climate change.*
- 2012 Guest lecture: Forest Management for Wildlife (FOR 405, Dr. Clayton Nielsen), Southern Illinois University Carbondale, Carbondale, Illinois, USA. *Soy bean, deforestation and wildlife in northern Argentina.*
- 2011 Guest lecture: Forest Management for Wildlife (FOR 405, Dr. Clayton Nielsen), Southern Illinois University Carbondale, Carbondale, Illinois, USA. *Telemetry.*

PRESENTATIONS IN PROFESSIONAL MEETINGS

26. Gomez-Silva V, **Crego RD**, Jaksic FM, Flores G, Schüttler E. *Identifying nesting habitats of shorebirds under mink predation in subantarctic environments.* First CHIC International Conference "Global Change and Biocultural Conservation", May 2023, Puerto Williams, Chile.
25. Barcelo M, **Crego RD**. 2018. *Perception and attitude of the inhabitants of Puerto Williams on the control of invasive species.* II° Chilean Colloquium of Socioecology and Ethnoecology: Dialogue of Knowledge for a New Conservation, November 2018, Concepción, Chile.
24. Wells HBM, **Crego RD**, Chiyo P, Otiende M, Lekolool I, Ouma G, Gitau W, Kivai S, Mamun J, Stabach J, Leimgruber P, Moinde N. 2018. *Management regime mediates the precipitation-vegetation relationship in rangelands: Implications for 'climate-smart' ecological restoration planning.* SER Europe Conference, Restoration in the Era of Climate Change. Reykjavik, Iceland.
23. Jara RF, **Crego RD**, Arellano FJ, Altamirano TA, Ibarra JT, Rozzi R, Jimenez JE. 2016. *Breeding strategies of passerines in the world's southernmost forests.* 27th International Ornithological Congress. Vancouver, Canada.
22. **Crego RD**, Jiménez JE and Rozzi R. 2016. *Seasonal dynamic habitat use suggests niche expansion of an invasive predator at the southernmost forest of the world.* British Ecological Society Annual Meeting. Liverpool, UK.
21. Cárcamo JR, Contador T, **Crego RD**, Schüttler E, Gañán M, Jiménez J, Saldías C, Rozzi R, Massardo F and Kennedy J. 2016. *The recent invasion of the yellow jacket (Vespula vulgaris y V. germanica) in the Cape Horn Biosphere Reserve: current state and future actions.* 1er National Meeting of National Protected Areas, Temuco, Chile.
20. Jara RF, **Crego RD**, Arellano FJ, Rozzi R and Jimenez JE. 2016. *Nesting strategies of birds in the world's southernmost forests: the impact of a novel invasive predator.* North American Ornithological Conference, Washington DC, USA.
19. Contador T, Rozzi R, Massardo F, Kennedy J, Ojeda J, Rendoll J, **Crego RD**, Méndez M, Rijal R, Jiménez JE. 2015. *Omora Etnobotanical Park: Integrating ecological sciences and environmental ethics in the long term socio-ecological research in Chile.* XXII Annual Meeting of the Ecological Society of Chile, Olmué, Chile.
18. **Crego RD**, Jiménez JE, Castillo S, Barceló M, Carro NG and Rozzi R. 2015. *The synergic trio of exotic mammals at the southern end of the Americas: Evidence of an invasional meltdown*

- among beavers, muskrats, and mink on Navarino Island (55°S), Chile.* 100th annual meeting of the Ecological Society of America, Baltimore, USA.
17. **Crego RD** and Jiménez JE. 2013. *Assessing habitat preference of invasive minks (Neovison vison) using trap-cameras in Navarino Island, Chile.* 98th annual meeting of the Ecological Society of America, Minneapolis, USA.
 16. Donadio E, Buskirk SW, Ruiz Blanco M, Perrig PL, **Crego RD**, Kantor JD and Novaro AJ. 2012. *Mortality causes and marrow fat phenology of vicuñas (Vicugna vicugna) in the high Andes of Argentina.* 92nd Annual Meeting of the American Society of Mammalogists, Reno, USA.
 15. **Crego RD**, Crawford JC, Bloomquist CK, Nielsen CK, Havens RP and Nelson TA. 2011. *Movement patterns around dens in two Illinois beaver populations.* 72nd Midwest Fish & Wildlife Conference, Des Moines, Iowa, USA.
 14. Ruiz Blanco, M, Donadio E, Perrig PL, **Crego RD**, Kantor J, Buskirk SW and Novaro JA. 2011. *Reproductive ecology of the most austral vicuña population Vicugna vicugna.* XXIV Argentinean Meeting of Mamology, La Plata, Argentina.
 13. Donadio E, Ruiz Blanco M, Perrig PL, **Crego RD**, Kantor J, Buskirk SW and Novaro AJ. 2011. *Nutritional profile of predated vicuñas Vicugna vicugna and additive mortality given by puma Puma concolor.* XXIV Argentinean Meeting of Mamology, La Plata, Argentina.
 12. **Crego RD**, Crawford JC, Bloomquist CK, Nielsen CK, Havens RP and Nelson TA. 2011. *Movement patterns around dens in two Illinois beaver populations.* Organization of Fish & Wildlife Information Managers conference, St. Louis, Missouri, USA.
 11. **Crego RD**, Nielsen CK and Didier K. 2011. *A project to model the distribution of wet meadows in arid and semi-arid Patagonia, Argentina: assessing current distribution and predicting response to climate change.* Organization of Fish & Wildlife Information Managers conference, St. Louis, Missouri, USA.
 10. Donadio E, Ruiz Blanco M, **Crego RD**, Buskirk SW and Novaro JA. 2010. *Birth weight and sex as factors affecting juvenile vicuña survival.* 90th Annual Meeting of the American Society of Mammalogists, Laramie, WO, USA.
 9. Donadio E, Ruiz Blanco M, **Crego RD**, Buskirk SW and Novaro JA. 2010. *Survival rate and mortality factors in vicuña juveniles Vicugna vicugna in the high Andes in Northwestern Argentina.* XXIII Argentinean Meeting of Mammalogy, Bahia Blanca, Argentina.
 8. Ruiz Blanco M, Donadio E, **Crego RD**, Buskirk SW and Novaro JA. 2010. *Puma Puma concolor depredation on vicuñas Vicugna vicugna: evidence of a trophic cascade mediated by behavior.* XXIII Argentinean Meeting of Mammalogy, Bahía Blanca, Argentina.
 7. Donadio E, Ruiz Blanco M, **Crego RD**, Buskirk SW and Novaro JA. 2010. *Birth weight and sex as factors affecting juvenile vicuña survival.* American Society of Mammalogists Meeting, Laramie, Wyoming, USA.
 6. **Crego RD**, Donadio E, Vitali M, Ruiz Blanco M, Zanon J, Salvador V, Veinticinco M, Guido J and Moschione F. 2009. *Donkey and guanacos abundances and group characteristics before and after donkey removal in Northwestern Argentina.* 10th International Mammalogical Congress, Mendoza, Argentina.
 5. Ruiz Blanco M, Donadio E, **Crego RD**, Buskirk SW and Novaro JA. 2009. *Foraging and vigilant budgets in vicuñas Vicugna vicugna: habitat type overrides group size.* 10th International Mammalogical Congress, Mendoza, Argentina.
 4. Macri IN and **Crego RD**. 2009. *Near city effect on Spotted Nothura (Nothura maculosa) abundance in grasslands of central Argentina.* Meeting of Ornithology, Tucumán, Argentina.

3. **Crego RD**, Ruiz Blanco M, Donadio E, Buskirk SW and Novaro JA. 2008. *Vigilant and foraging budgets of vicuñas (Vicugna vicugna) in habitats with different vegetation structure*. XIII Argentinean Meeting of Ecology, San Luis, Argentina.
2. Donadio E, Ruiz Blanco M, **Crego RD**, Buskirk SW and Novaro JA. 2008. *Capturing and marking newborn vicuñas with ear tag transmitters at San Guillermo National Park, Argentina*. XXII Argentinean Meeting of Mammalogy, Villa Giardino, Argentina.
1. Tempesta L, Speratti MA, **Crego RD** and Acosta L. 2005. *Preliminary results of environmental enrichment aimed to increase the behavioral display of a solitary captive coati (Nasua nasua)*. 1st Bolivian Meeting of Mammalogy, Cochabamba, Bolivia.

TEACHING EXPERIENCE

- | | |
|-------------|---|
| 2023 | Instructor. Habitats and Ecosystems (Module BL1008). Dual-degree program, University College Cork, Ireland, and Minzu University of China. |
| 2023 | Instructor. Plant and Animal Physiology and Structure (Module BL1007). Dual-degree program, University College Cork, Ireland, and Minzu University of China. |
| 2022 | Instructor. Workshop: Introduction to Spatial Ecology with Google Earth Engine – Online. Smithsonian Conservation Biology Institute, USA. |
| 2022 | Instructor. Workshop: Introduction to Google Earth Engine as a tool to rapidly implement species distribution models. The 58th Annual Meeting of Illinois Chapter of The Wildlife Society, Lewis and Clark Community College.
https://wildlife.org/wp-content/uploads/2022/03/Google-Earth-Engine-Workshop-Announcement_February-2022.pdf |
| 2022 | Instructor. Introduction to Logistic Regression with R – Online. Ecuador. |
| 2022 | Instructor. Introduction to Spatial Ecology with R – Online. Czech University of Life Sciences Prague. |
| 2021 | Instructor. Introduction to Spatial Ecology with R – Online. Pontificia Universidad Católica de Chile. |
| 2021 | Instructor. Essentials of Spatial Ecology: GIS Analysis in R – Online. Smithsonian-Mason School of Conservation. |
| 2020 | Instructor. Google Earth Engine for Ecologists – Online. Smithsonian Conservation Biology Institute and World Wildlife Fund for Nature. |
| 2018 | Instructor. Workshop on Spatial Ecology. Mpala Research Centre, Laikipia, Kenya. |
| 2018 | Instructor. Workshop on monitoring invasive <i>Opuntia stricta</i> invasion amid herbivory and biocontrol agent. Mpala Research Centre, Laikipia, Kenya. |
| 2017 Fall | Teaching Assistant. Mammalian Ecology and Evolution Lab (BIOL 4057/5057), University of North Texas, Denton, TX, USA. |
| 2017 Summer | Teaching Assistant. Environmental Science Lab (BIOL 1132), University of North Texas, Denton, TX, USA. |
| 2017 Spring | Teaching Assistant. Community Ecology Lab (BIOL 4052/5052), University of North Texas, Denton, TX, USA. |
| 2016 Fall | Teaching Assistant. Biology for Educators Lab (BIOL 1082), University of North Texas, Denton, TX, USA. |
| 2016 Spring | Teaching Assistant. Contemporary Biology Lab (BIOL 1112), University of North Texas, Denton, TX, USA. |

2015 Spring **Teaching Assistant.** Tracing Darwin's Path & Field Biocultural Conservation course, University of North Texas, Denton, TX, USA.

MENTORSHIPS

- 2022 Valeria Alejandra Gomez Silva. MSc with mention in conservation and management of sub-Antarctic natural resources. Universidad de Magallanes, Punta Arenas, Chile. Thesis project: "Prioritization of control sites for invasive American mink for the conservation of reproducing ground-nesting coastal birds, Southern Chile".
- 2022 Danielle Glass. Smithsonian Conservation Biology Institute Internship. Project: "Modeling Sumatran Elephant Distribution."
- 2021 Quentin Darnell Jamison, Research in Conservation (CONS 496), Smithsonian-Mason School of Conservation, Smithsonian Conservation Biology Institute. Project: "Implementing Species Distribution Models using Google Earth Engine."
- 2020 Kelsey A Naupari Camacho, Research in Conservation (CONS 496), Smithsonian-Mason School of Conservation, Smithsonian Conservation Biology Institute. Project: "Implementing Species Distribution Models using Google Earth Engine."
- 2020 George Hansbrough, Research in Conservation (CONS 496), Smithsonian-Mason School of Conservation, Smithsonian Conservation Biology Institute. Project: "Using Google Earth Engine to determine landscape connectivity across fragmented Virginian forest habitats."

FELLOWSHIPS

- 2018 Smithsonian Conservation Biology Institute. Postdoctoral Fellowship.
- 2014 Institute of Ecology and Biodiversity, Chile. Doctoral Fellowship.
- 2013 University of North Texas Robert B. Toulouse Fellowship. Doctoral Fellowship.

PROFESSIONAL SERVICE and OUTREACH ACTIVITIES

Professional contributions

IPBES contributing author

Membership

Lolldaiga Hills Research Programme, Kenya.

Shiny R and Google Earth Engine web applications

<https://ramirodcrego.shinyapps.io/Laikipia/>

<https://ramirodcrego.shinyapps.io/NaboishoSpAbu/>

<https://ramirodcrego84.users.earthengine.app/view/nppassessmentapp>

Reviewer for peer-reviewed journals (52)

Biodiversity and Conservation (6) - *Biological Invasions* (5) - *Diversity* (4) - *Austral Ecology* (3) - *Mammal Research* (3) - *Journal for Nature Conservation* (3) - *PeerJ* (2) - *Mammalian Biology* (2) - *Journal of Wildlife Management* (2) - *Diversity and Distribution* (2) - *Mammal Review* (2) - *Agriculture, Ecosystem and Environment* (2) - *Environmental Conservation* (1) - *Mastozoología*

Neotropical (1) - North-Western Journal of Zoology (1)) – Remote Sensing (1) – Frontiers in Ecology and Evolution (1)- Revista Chilena de Historia Natural (1) - Ecosphere (1) - Annales Zoologici Fennici (1) - Ecology and Evolution (1) - Journal of Applied Ecology (1) – Journal of Mammalogy (1) – Data (1) – Acta Biologica Colombiana (1) – Wildlife Research (1) – Actualidades Biológicas (1) – Journal of African Ecology (1) – Biology Letters (1)

Review of project proposals (2)

The National Fund for Scientific and Technological Development (FONDECYT), Chile.

European Biodiversity Partnership, Biodiversa+ (1)

External reviewer of graduate students (1)

May 2022 Department of Animal Science and Food Processing, Faculty of Tropical AgriSciences, Czech University of Life Sciences Prague. Master's thesis: "Camera trap survey of small carnivorans in Pendjari National Park in Benin ". Thesis supervisor: Karolína Brandlová, Ph.D.

Talks at middle and high schools

October 19, November 6, 2015. Chilean Initiative “1000 scientists 1000 classrooms.” Invasive species in Navarino Island. Liceo Donald McIntyre G., Puerto Williams, Chile.

August 29, 2014. Professional experience of a graduated student. Liceo Maria Auxiliadora. Punta Arenas, Chile.

May 13, 2013. The sixth extinction and conservation biology. Class of Biology, National School “Ernesto Sabato”, Tandil, Buenos Aires, Argentina.

November 29, 2011 and November 28, 2012. Taking wildlife ecology into the classroom: assessing the relationship between predators and their prey in the high Andes of South America. Du Quoin Middle School, Illinois, USA.

September 21 and 28, 2009. Taking wildlife ecology into the classroom: assessing the relationship between predators and their prey in the high Andes of South America. Bachillerato Columna Cabot, Villa Iglesia, San Juan, Argentina.

September 18, 2008. Professional experience of a graduated student. School of Agriculture Education N° 1 “Dr. Ramón Santamarina”- Tandil, Buenos Aires, Argentina.

Media coverage

Mongabay. <https://news.mongabay.com/2023/08/where-are-the-giraffes-hiding-predictive-tracking-tech-points-the-way/>

University of North Texas News <https://news.unt.edu/news-releases/unt-professor-discovers-new-bird-species-chile-along-international-collaborators>; <https://research.unt.edu/news/unt-professor-discovers-new-bird-species-chile>

The conversation. <https://theconversation.com/rewilding-conservationists-want-to-let-elephants-loose-in-europe-heres-what-could-happen-168212>

Smithsonian Institution. Board of Regents. [Research_highlights_june_2021.pdf \(si.edu\)](https://www.si.edu/research-highlights-june-2021.pdf)

Smithsonian National Zoo <https://nationalzoo.si.edu/news/growing-livestock-numbers-threaten-one-last-refuges-for-large-wild-herbivores-kenya>

National Geographic <https://www.youtube.com/watch?v=W8kxVIbHJIQ>

- National Geographic <https://news.nationalgeographic.com/news/2014/12/141210-chile-patagonia-cape-horn-biosphere-reserve/>
- National Geographic <https://www.nationalgeographic.com/animals/2019/07/beaver-overpopulation-tierra-del-fuego/>
- IEB, Chile http://www.6sentidos.cl/podCast/Invasion_Vison_Navarino.mp3
- IEB, Chile <http://ieb-chile.cl/especiesinvasorasocabodehornos/>
- IEB, Chile https://ieb-chile.cl/noticia/reproduccion-aves-navarino/?fbclid=IwAR15KtOi64y0CQMnoWeiP5MfpzQ0kA9heRTZF_NHcg4PVJo5I45QXbNxDXU
- GEF, Chile <http://gefespeciesinvasoras.cl/castor-rata-almizclera-vison-la-preocupante-relacion-especies-invasoras-isla-navarino/>
- Ladera Sur, Chile <https://laderasur.com/articulo/la-amenaza-de-las-especies-exoticas-invasoras-en-cabo-de-hornos/>
- Ladera Sur, Chile https://laderasur.com/estapasando/cientificos-detectan-nueva-presencia-de-mamiferos-exoticos-en-7-islas-de-la-reserva-de-la-biosfera-cabo-de-hornos/?fbclid=IwAR09U11cr1B9xEFYbeeZW_ZRnm8o9e06IgQyZyhqvwf_IPiFVwkRyaHqYy8
- El Mercurio, Chile <https://digital.elmercurio.com/2019/06/27/A/213KNMAL#zoom=page-width>
- La Tercera, Chile <https://www.latercera.com/que-pasa/noticia/invasion-cabo-hornos/623775/>
- La Prensa Austral, Chile <https://laprensaaustral.cl/opinion/la-amenaza-de-las-especies-exoticas/>
- La Prensa Austral, Chile https://prensaantartica.cl/2019/06/27/el-incierto-futuro-de-las-aves-del-fin-del-mundo-frente-al-cambiante-escenario-ambiental/?fbclid=IwAR2fwCJZufXK4ch5t4Rb-xr0otY1h6UYufXPskyN4ti-1JNfbSnrDRj1_M
- Las Últimas Noticias, Chile <http://www.lun.com/Pages/NewsDetail.aspx?dt=2018-04-28&PaginaId=20&bodyid=0>
- Las Últimas Noticias, Chile <http://www.lun.com/Pages/NewsDetail.aspx?dt=2019-04-25&PaginaId=8&bodyid=0&fbclid=IwAR2vi99G8Q4APxVDJ9zBkrfLivtLrQruY4oNqhIKZpFndeGwUn9T3slhJUQ>
- EMOL <http://www.emol.com/noticias/tecnologia/2015/01/20/700045/plaga-de-castores-y-visones-amenaza-la-biodiversidad-del-extremo-sur-de-chile.html>
- NTN24 <http://ntn24.com/video/biodiversidad-de-chile-en-amenaza-por-presencia-de-especies-invasoras-41209>
- AD Prensa, Chile <https://www.adprensa.cl/medio-ambiente/la-amenaza-de-las-especies-exoticas-invasoras-en-la-reserva-de-la-biosfera-cabo-de-hornos/>
- CodexVerde, Chile <http://codexverde.cl/la-amenaza-de-las-especies-exoticas-invasoras-en-la-reserva-de-la-biosfera-cabo-de-hornos/>
- Biobio, Chile <http://www.biobiochile.cl/noticias/nacional/region-de-magallanes/2018/04/26/especies-exoticas-ponen-en-peligro-a-la-fragil-fauna-nativa-de-reserva-cabo-de-hornos.shtml>
- Publímtero, Chile <https://www.publimetro.cl/cl/estilo-vida/2018/04/26/gatos-perros-asilvestrados-especies-exoticas-invasoras-las-amenazas-podrian-destruir-la-reserva-la-biosfera-chilena-mas-austral-del-planeta.html>
- Radio U Chile <http://radio.uchile.cl/2018/04/26/la-amenaza-de-las-especies-exoticas-invasoras-en-la-reserva-de-la-biosfera-cabo-de-hornos/>
- Ecoticias <https://www.ecoticias.com/eco-america/183420/amenaza-especies-exoticas-invasoras-Reserva-Biosfera-Cabo-Hornos>
- La Serena Online, Chile <http://www.laserenaonline.cl/2018/04/27/la-amenaza-de-las-especies-exoticas-invasoras-en-la-reserva-de-la-biosfera-cabo-de-hornos/>
- ITV Noticias, Chile <http://www.itvpatagonia.com/noticias/la-amenaza-de-las-especies-exoticas-invasoras-en-la-reserva-de-la-biosfera-cabo-de-hornos/>
- El Magallan News, Chile http://www.elmagallanews.cl/noticia/sociedad/invasion-en-cabo-de-hornos-detectan-presencia-de-mamiferos-exoticos-en-7-islas-de-l?utm_source=dlvr.it&utm_medium=facebook

Latino America 24 hs <https://latinoamerica24horas.com/cientificos-detectan-nueva-presencia-de-mamiferos-invasores-en-siete-islas-de-la-reserva-de-la-biosfera-cabo-de-hornos/>