

M. Noelia Barrios-García

EDUCATION

Ph.D. in Ecology (2012)

Department of Ecology and Evolutionary Biology, University of Tennessee, USA.

Mentor: Daniel Simberloff

Licenciada en Ciencias Biológicas (2005)

Universidad Nacional del Comahue - CRUB, Argentina

Mentors: Thomas Kitzberger and Maria Andrea Relva

APPOINTMENTS

Lecturer (2021-)

Rubenstein School of Environment and Natural Resources

University of Vermont

Lecturer (summer 2022-)

University of Michigan Biological Station

Ayudante de primera (2015- 2019, 2021)

Jefe de trabajos prácticos (2020)

Dept. of Ecology, Universidad Nacional del Comahue

Investigadora Adjunta (2019-)

Investigadora Asistente (2014- 2018)

CONICET, CENAC – APN.

Postdoctoral Fellow (2014)

CONICET, CENAC – APN

Mentors: Thomas Kitzberger and Julieta Massafferro

Postdoctoral Fellow (2013)

University of British Columbia

Mentor: Gregory Crutsinger

PUBLICATIONS

Moreyra, S., Gonzalez-Polo, M., & **Barrios-Garcia, M. N.** (2025). Afterlife effects of invasive wasp nests on ecosystem functioning. *Ecology*, 106(7), e70140.

Eckberg, J. N., Rodríguez-Cabal, M. A., **Barrios-Garcia, M. N.**, & Sanders, N. J. (2025). Plant Functional Traits, but Not Community Composition, Are Affected by Summer Precipitation and Herbivory in an Old-Field Ecosystem. *Ecology and Evolution*, 15(5), e71399.

Hwang, B. C., Giardina, C. P., **Barrios-Garcia, M. N.**, Diao, H., Duboscq-Carra, V. G., Hemp, A., ... & Metcalfe, D. B. (2025). Insect herbivory releases more nutrients in warmer and drier forests. *Global Biogeochemical Cycles*, 39(4), e2024GB008367.



- Ballari, S., La Sala, L., Merino, M., Carpinetti, B., Winter, M., Gurtler, R., Barandiaran, S., Cuevas, M.F., Condori, E., Tammone, A. and Marcos, A., **M. N. Barrios-Garcia** (2024). El jabalí y el cerdo silvestre (*Sus scrofa*) en la Argentina. *Ecología Austral* 34 (2): 203-421.
- Strong, A.M., Veal, M.C., Ginger, C., Blouin, M.R., Edling, L., **Barrios-Garcia, M.N.**, McDonald, M.J. and Ispa-Landa, Z. (2024). Teaching and learning about race, culture, and environment in a predominately white institution. *Journal of Environmental Studies and Sciences*, 14(3): 538-547.
- Hwang, B.C., Giardina, C.P., Adu-Bredu, S., **Barrios-Garcia, M.N.**, Calvo-Alvarado, J.C., Dargie, G.C., Diao, H., Duboscq-Carra, V.G., Hemp, A., Hemp, C. and Huasco, W.H. (2024). The impact of insect herbivory on biogeochemical cycling in broadleaved forests varies with temperature. *Nature Communications*, 15(1), p.6011.
- Guerisoli, M.M., Schiaffini, M. I., Teta, P., Valenzuela, A. E., Mirol, P., Nori, J., ... & R. Ojeda. (2023). Threatened conservation scientists: The aftermath of an eye-opening publication on rewilding. *Biological Conservation*, 287, 110322.
- Guerisoli, M.M., Schiaffini, M.I., Teta, P., Valenzuela, A. E., Mirol, P., Defossé, G. E., ... & M.M. Uhart (2023). Reflexiones acerca del “reasilvestramiento” en la Argentina. *Mastozoología Neotropical*: 30(1), 1-12.
- Barrios-Garcia, M N.**, Gonzalez-Polo M., Simberloff D., and A.T. Classen (2023) Wild boar rooting impacts soil function differently in different plant community. *Biological Invasions*: 25 (2), 583-592.
- Ballari, S.A. and **M.N. Barrios-Garcia** (2022) Mismatch between media coverage and research in invasive species: the case of invasive wild boar in Argentina. *PLoS ONE* 17 (12), e0279601.
- Prager, C.M., A.T. Classen, M.K. Sundqvist, **M.N. Barrios-Garcia, et al.** (2022) Integrating natural gradients, experiments, and statistical modelling in a distributed network experiment: an example from the WaRM Network. *Ecology and Evolution* 12 (10), e9396.
- Motta, L., **Barrios-Garcia, M. N.**, Ballari, S. A., M.A. Rodriguez-Cabal (2020) Cross-ecosystem impacts of non-native ungulates on wetland communities. *Biological Invasions*, 22(11): 3283-3291.
- da Rosa, C. A., Ribeiro, B. R., Bejarano, V., Puertas, F. H., Bocchiglieri, A., dos Santos Barbosa, A. L., ... & A.C. de Souza (2020) NEOTROPICAL ALIEN MAMMALS: a data set of occurrence and abundance of alien mammals in the Neotropics. *Ecology*, 101(11), e03115.
- Rodriguez-Cabal, M. A., **Barrios-Garcia, M. N.**, Greyson-Gaito, C. J., Slinn, H. L., Tapella, M. P., Vitali, A., and G. M. Crutsinger (2019) Non-native ungulates indirectly impact foliar arthropods but not soil function. *Biological Invasions*, 21(10): 3077-3084.
- Paritsis, J., Landesmann, J.B., Kitzberger, T., Tiribelli, F., Sasal, Y., Quintero, C., Dimarco, R.D., **Barrios-García, M.N.**, Iglesias, A.L., Diez, J.P., Sarasola, M. and M. A. Nuñez (2018) Pine plantations and invasion alter fuel structure and potential fire behavior in a Patagonian forest-steppe ecotone. *Forests*, 9, 117.
- Soteras, F., Ibarra C. Geml J., **Barrios-García M.N.**, Domínguez L.S., and E.R. Nouhra (2017) Mycophagy by invasive wild boar (*Sus scrofa*) facilitates dispersal of native and introduced mycorrhizal fungi in Patagonia, Argentina. *Fungal Ecology* 26: 51-58.
- Rodríguez-Cabal, M.A., **Barrios-García M.N.**, Rudman S.M., McKown A.D., Sato T., and G.M. Crutsinger (2017) It is about time: genetic variation in the timing of leaf-litter inputs influences aquatic ecosystems. *Freshwater Biology* 62(2): 356-365.

- Barrios-García, M.N.**, Rodríguez-Cabal M.A., Rudgers J.A., and G.M. Crutsinger (2017) Soil fertilization does not alter plant architectural effects on arthropod communities. *Journal of Plant Ecology* 10(5): 800-807.
- Barney J.N., D.R. Tekiela, **M.N. Barrios-García**, R.D. Dimarco, R.A. Hufbauer, P. Leipzig-Scott, M.A. Nuñez, A. Pauchard, P. Pyšek, and M. Vítková (2015) Global Invader Impact Network (GIIN): toward standardized evaluation of the ecological impacts of invasive plants. *Ecology and Evolution* 5:2878-2889.
- Rodríguez-Cabal M.A., T.C. Gibbons, P.M. Schulte, **M.N. Barrios-García**, and G.M. Crutsinger (2015) Comparing functional similarity between native and exotic slugs in temperate rain forests of British Columbia. *NeoBiota* 25:1-14.
- Barrios-García M.N.**, Rodríguez-Cabal M.A., González A.L., and G.M. Crutsinger (2015) Biogeographical variation in arthropod communities on coyote bush, *Baccharis pilularis*. *Insect Conservation and Diversity* 8(1):81-91.
- Barrios-García M.N.**, Classen A.T., and D. Simberloff (2014) Disparate responses of above- and belowground properties to soil disturbance by an invasive mammal. *Ecosphere* 5(4): art 44.
- Ballari S. and **M.N. Barrios-García** (2014) Diet of wild boar (*Sus scrofa*): a review of diet composition and feedings habits. *Mammal Review* 44(2): 124-134.
- Rodríguez-Cabal M.A., **Barrios-García M.N.**, Amico G.C., Aizen M.A. and N.J. Sanders (2013) Node-by-node disassembly of a mutualistic network driven by species introductions. *PNAS* 110(41): 16503-16507
- Barrios-García M.N.** and D. Simberloff (2013) Linking the pattern to the mechanism: how an exotic mammal promotes plant invasions. *Austral Ecology* 38(8): 884-890.
- Nuñez M.A., Hayward J., Horton T., Amico G.C., Dimarco R.D., **Barrios-García M.N.**, and D. Simberloff (2013) Exotic mammals disperse exotic fungi that promote invasion by exotic trees. *PLoS ONE* 8(6): e66832. *Featured in conservationmagazine.org.
- Barrios-García M.N.** and S.A. Ballari (2012) Impact of wild boar (*Sus scrofa*) in its introduced and native range: a review. *Biological Invasions* 14(11): 2283-2300.
- Rodríguez-Cabal M.A., **Barrios-García M.N.**, and M. A. Nuñez (2012) Positive interactions in ecology: filling the fundamental niche. *Ideas in Ecology and Evolution* 5:36-41.
- Lessard J.P., Reynolds W.N., Bunn W.A., Genung M.A., Cregger M.A., Felker-Quinn E., **Barrios-García M.N.**, Stevenson M.L., Lawton R.M., Brown C.B., Patrick M., Rock J.H., Jenkins M.A., Bailey J.K., and J.A. Schweitzer (2012) Equivalence in the strength of deer herbivory on above and below ground communities. *Basic and Applied Ecology* 13:59-66 *Featured as a key research article by **Earth Emphasis**.
- Simberloff D., Souza L., Nuñez M.A., **Barrios-García M.N.** and W. Bunn (2012) The natives are restless, but not often and mostly when disturbed. *Ecology* 93(3): 598-607. * Recommended by **Faculty of 1000**.
- Barrios-García, M.N.**, Relva M.A, and T. Kitzberger (2012) Patterns of use and damage by exotic deer on native plant communities in northwestern Patagonia. *European Journal of Wildlife Research* 58:137-146.
- Rodríguez- Cabal M.A., **Barrios-García M.N.**, and D. Simberloff (2009) Across island and continents, mammals are more successful invaders than birds (Reply). *Diversity and distributions* 15:911-912.

BOOK CHAPTERS and SECTIONS

Barrios-García M.N., Quintero C., Ballari S.A., Sasal Y., Vitali A., M.A Rodriguez-Cabal (2023) Impact of introduced herbivores in forested ecosystems *in* Valenzuela A.E.J., Anderson C.B., Ojeda R.A., S.A. Ballari (Editors). Invasive Exotic Mammals in Argentina. SAREM Series A: Mammalogical Research, Argentina.

Ballari S.A., **Barrios-García M.N.**, Sanguinetti J., Pastor H., M.F. Cuevas (2023) Hunting as a driver of mammal introductions. *In* Valenzuela A.E.J., Anderson C.B., Ojeda R.A., S.A. Ballari (Editors). Invasive Exotic Mammals in Argentina. SAREM Series A: Mammalogical Research, Argentina.

Ballari, S. A., Cirignoli S., Winter M., Cuevas M. F., Merino M. L., Monteverde M., **Barrios-García M. N.**, Sanguinetti J., Lartigau B., Kin M. S., M. A Relva (2019) Sus scrofa. *In*: SAYDS–SAREM (Editors) Categorización 2019 de los mamíferos de Argentina según su riesgo de extinción. Lista Roja de los mamíferos de Argentina. Versión digital: <http://cma.sarem.org.ar>.

Barrios-García, M. N., Cirignoli S., Kin M. S., Relva M. A.; Monteverde M., Chalukian S., S.R. Giménez (2019) Dama dama. *In*: SAYDS–SAREM (Editors) Categorización 2019 de los mamíferos de Argentina según su riesgo de extinción. Lista Roja de los mamíferos de Argentina. Versión digital: <http://cma.sarem.org.ar>.

Barrios-García, M. N., M.A. Núñez (2014) El ciervo y el jabalí en los bosques de Chile y Argentina. *In*: Donoso, C., González, M., A. Lara (Editors). Ecología forestal: bases para el manejo sustentable y conservación de los bosques nativos de Chile. Valdivia, Chile. Ediciones Universidad Austral de Chile. pp: 686-687.

MENTORING, STUDENT RESEARCH, and ADVISING

Postdoctoral Research advisees

Dr. Luciana Motta (2018-2021), co-advised with M. Rodriguez-Cabal, CONICET, Argentina.

Dr. Virginia Dubosq (2019-2021), co-advised with M. Rodriguez-Cabal, CONICET, Argentina.

Graduate students

M. Victoria Arroyo, Ph.D. (exp 2028), co-advised with V. Fernandez-Arhex, Universidad Nacional del Comahue, Argentina.

Miguel Mancini, Ph.D. (exp 2027), co-advised with Marina Gonzalez Polo and Sabrina Moreyra, Universidad Nacional del Comahue, Argentina.

M. Paz Tapella, Ph.D. (exp 2025), co-advised with C. Quintero and M. Rodriguez-Cabal, Universidad Nacional del Comahue, Argentina.

Lindsay Haigh, MS (2025), co-advised with Mariano Rodriguez-Cabal, UVM, USA.

Carolyn Hanrahan, MS (2024), co-advised with Brittany Mosher and Jed Murdoch, University of Vermont, USA.

Undergraduate Thesis

Mar Wiltz (2024), co-advised with Mariano Rodriguez-Cabal. Honors College, University of Vermont, USA.

M. Victoria Arroyo (2022), co-advised with V. Fernandez-Arhex, Universidad Nacional del Comahue, Argentina.

Undergraduate Research

Megan Anderson (2024) Restoring native plant communities following knotweed management. University of Vermont.

Madeline Balog (2023) Effect of black locust (*Robinia pseudoacacia*) on understory herbivory rates. University of Michigan, USA.

Eric Minogue (2023) Seed predation in DIRT plots. University of Michigan, USA.

Beyla Munach and Jenny Sogin (2022-2023) Distribution of spongy moth egg sacs across urban and rural forests. University of Vermont, USA.

Capstone internship advisor

August Powers (2025) BLUE Stormwater program, USA.

Sean Swikle (2025) Building a sustainable future, lessons from my capstone internship at Earthday.org.

Isabella Karr (2025) Intertape Polymer Group: sustainability internship.

Kelsey Lynch (2024) Effectiveness of UVM Costa Rica experiential learning program.

Kylie Roth (2024) My capstone experience at The American Chestnut Foundation.

Danielle Small (2024) Middlebury Area Land Trust.

Chloe Weber (2024) *Carcinus maenas* and the presence on Block Island, Rhode Island.

Ava Kendrick (2023) Spoonful Herbals, University of Vermont.

Jay Strek (2021) Reflective Inquisition on Environmental Education.

Academic advisor

30-40 undergraduate students (2022-2025)

Service on graduate committees

Camila Rocca (2025), Universidad de Buenos Aires, Argentina.

Megan O'Connor (2024- 2025), University of Vermont, USA.

Evan Horne (2024), University of Vermont, USA.

Amira Salom (2024-2025), Universidad de Buenos Aires, Argentina.

Destini Acosta (2023-2024), RSERN, University of Vermont, USA.

Maria Elena Vargas-Amado (2023), Zurich University, Switzerland.

Service on undergraduate committees

Emma Graham (2025), Rubenstein School of Environment and Natural Resources, University of Vermont, USA.

Lauren Polk (2022), Department of Biology, University of Vermont, USA.

Joe Warren (2022), Department of Biology, University of Vermont, USA.

Isabella Wolfsdork (2022), Rubenstein School of Environment and Natural Resources, University of Vermont, USA.

Karen Ulloa (2020), Universidad Nacional del Comahue, Argentina.

Evelyn Vega (2018), Universidad Nacional del Comahue, Argentina.

Visiting scholars in Patagonia

Raina Fitzpatrick (2019) – University of Vermont, USA

Carrie Finkelstein (2019) – University of Vermont, USA

TEACHING EXPERIENCE

University of Vermont (2021 – current)

ENVS 1500 – Intro to Environmental Studies (fall 2021)

ENVS 1510 – Solutions in Environmental Studies (spring 2022-2025)

ENSC 1010 – Introduction to Environmental Sciences (spring 2025)

NR 95 – Urban ecology (fall 2022, 2023)
 NR 1050 – Critical Reflection and Dialogue (fall 2021, 2022)
 NR 1060 – Race and Culture (spring 2022, 2023)
 NR 2030 – Ecology, Ecosystem and the Environment (spring and fall 2022-2025)
 NR 2300 – Landscape Restoration and Leadership (fall 2024)
 NR 4050 – Field Ecology Practicum (fall 2023, 2025)
 WFB 2010 – Methods in Fisheries and Wildlife (fall 2024)

University of Michigan (2022)
 Ecology lecture (summer 2022)
 Ecology lab (summer 2023-2025)

Universidad del Comahue – CRUB (2002 – 2003, 2016-2021)
 Vertebrados (fall 2002- 2003)
 Interpretación de la Naturaleza I (annual 2016-2021)
 Ecología General (fall 2016 - 2017)
 Ecología de Comunidades (spring 2018 -2021)

The University of Tennessee (2007 - 2012)
 BIO 101- Humankind in the Biotic World (fall 2008 -2009)
 BIO 102- Humankind in the Biotic World (spring 2008 - 2009)
 BIO 130- Biodiversity (fall 2007)
 BIO 250- Ecology (fall 2010, fall 2011, spring 2012, fall 2012)
 EEB 484 - Conservation Biology (fall 2009)

GRANTS & AWARDS

2024 – 2028	Managing forests for the future: Identifying and overcoming socio-economic and environmental barriers to climate change mitigation. Mc-Sten- UVM, Co-PI. (US\$ \$603,831).
2024	ENVS Enrichment Award. Invasive species management and ecosystem restoration in the Mad River Valley (US\$ 1600).
2022 – 2025	Conservación de humedales e impacto de mamíferos exóticos invasores en el noreste patagónico. PICT Grupo de reciente formación – FONCyT (\$ 1.410.000 pesos argentinos)
2021 – 2024	Efectos de legado de nidos de avispas sociales invasoras en funciones ecosistémicas en la Patagonia Andina. PIP, CONICET (\$1.320.000 pesos argentinos)
2018 – 2021	Dinámica de dispersión de semillas de plantas nativas y exóticas por animales en el norte de Patagonia. Universidad Nacional del Comahue. PIN1: 04/B229. (\$ 40.000 pesos argentinos)
2018	Evaluating how climate change and interaction influence global carbon cycle. Fulbright- CONICET Grant at University of Vermont (US\$9000)
2018 - 2020	Ungulados introducidos como agentes de selección: consecuencias a escala de población, comunidad y ecosistema. PICT Grupo de reciente formación – FONCyT (\$390000 pesos argentinos)
2016	Ecosystem recovery after European wild boar eradication on Cachal Huapi island, Nahuel Huapi National Park – Patagonia. The Rufford Foundation (£4900)

- 2015 - 2017 Impacto del jabalí europeo, *Sus scrofa*, en comunidades del suelo asociadas a procesos de descomposición de materia orgánica. PICT Joven – FONCyT (\$100000 pesos argentinos)
- 2012 Science Alliance Award - University of Tennessee (US\$ 3000)
- 2008 - 2012 Multi-level impacts of introduced wild boar on Patagonia ecosystems. EEB Summer Research Grant, GREEBE, College of Arts and Sciences – University of Tennessee (total US\$ 3525)
- 2004 Tendencias históricas de la abundancia de ciervos introducidos, patrones de daño y uso actual de los bosques nativos en la Isla Victoria, Patagonia, Argentina. Administración de Parques Nacionales (\$1000 pesos argentinos)
- 2003 Tendencias históricas de la abundancia de ciervos introducidos, patrones de daño y uso actual de los bosques nativos en la Isla Victoria, Patagonia, Argentina. Investigador principal. Sigma Xi Grant in Aid of Research (US\$ 500)

INVITED TALKS

- 2025 Invasive species: Impacts on ecosystems and human well-being. Gund Institute, UVM, USA. https://www.youtube.com/watch?v=4ZW-W4lpJ_g
- 2023 How to apply for fellowships? Sister2Sister Exchange Program, Pakistan.
Impact and management of invasive species in Patagonia. Penn State, USA
Impacts of invasive species across ecosystem boundaries and time. University of Massachusetts Amherst, USA.
- 2022 Impact of invasive species across ecosystem boundaries and time. Department of Biology seminar series, University of Vermont, USA.
- 2021 Direct and indirect effects of invasive species in Patagonia. University of New Mexico, USA.
Multi-level impacts of invasive wild boar. University of Rhode Island, USA.
- 2018 Invasive species: the case of wild boar in Patagonia. The Gund Institute, UVM. Burlington, VT, USA.
WaRM – Patagonia. 5to Foro Nacional Interdisciplinario “Mujeres en Ciencia, tecnología y Sociedad”. Bariloche, Argentina.
- 2016 Invasiones Biológicas. Ciclo de charlas de actualización para guías del Parque Nacional Nahuel Huapi, Bariloche, Argentina.
- 2014 Impacto del ciervo y el jabalí en ecosistemas de la Isla Victoria, porqué hay que controlar? CENAC - Administración de Parques Nacionales, Bariloche, Argentina.
- 2011 El jabalí (*Sus scrofa*): impactos de un ingeniero ecosistémico exótico en la Patagonia. Seminar series, laboratorio Ecotono, Bariloche, Argentina.
- 2010 Efectos múltiples del jabalí europeo (*Sus scrofa*) en ecosistemas de la Patagonia. Administración de Parques Nacionales, Bariloche, Argentina.
- 2009 Impacts of large exotic mammals on native ecosystems in Patagonia. SLU- Swedish University of Agricultural Sciences, Umea, Sweden.
Impacto del jabalí europeo (*Sus scrofa*) en ecosistemas de la Patagonia. Seminar series, laboratorio Ecotono, Bariloche, Argentina.
- 2006 Patrones de daño, uso actual y tendencia histórica de la abundancia de ciervos introducidos en bosques nativos de la Isla Victoria, Patagonia, Argentina. Seminar series, Administración de Parques Nacionales

- 2005 Patrones de daño, uso actual y tendencia histórica de la abundancia de ciervos introducidos en bosques nativos de la Isla Victoria, Patagonia, Argentina. Seminar series, laboratorio Ecotono.

CONFERENCE PRESENTATIONS

Martinez Retta, L., S. Ballari, **MN Barrios-Garcia**, L. Motta, MA Rodriguez-Cabal (2024) Ensamble de pequeños mamíferos en humedales del bosque templado de la Patagonia, Argentina. Jornadas Argentinas de Mastozoología, San Luis, Argentina.

Tapella, M.P., **M.N. Barrios-Garcia**, M. Rodriguez-Cabal, Y. Sasal, C. Quintero (2022) Indirect effects of introduced ungulates on native foliar arthropod herbivory. 107th Ecological Society of America annual meeting. Montreal, Canada.

Ballari, S.A., **M.N. Barrios-Garcia** (2021) Discrepancia entre los medios de comunicación y la investigación en especies exóticas invasoras: el caso del jabalí en Argentina. Jornadas Argentinas de Mastozoología. Argentina.

Moreyra, S. González-Polo M., **M.N. Barrios-Garcia** (2020) Afterlife effects of invasive wasps' nests on soil properties. Festival of Ecology, British Ecology Society, UK. (online)

Pirk, G., **Barrios-Garcia M.N.**, Lescano M.N., Werenkraut V., L. Elizalde (2019) Efecto de los nidos de tres especies de hormigas de la estepa patagónica sobre la descomposición de la materia orgánica. VI Congreso Nacional de Conservación de la Biodiversidad, La Rioja, Argentina.

Barrios-Garcia, M. N., Gonzalez-Polo M., Simberloff D., A. Classen (2018) Abiotic and biotic factors mediate the impact of invasive wild boar on soil function. 103rd Ecological Society of America annual meeting. New Orleans, LA, USA.

Núñez, M.A., R.D. Dimarco, Y. Sasal, C. Quintero, **M. N. Barrios Garcia**, M.M. Sarasola, J.P. Diez, A.S. Martinez Von Ellrichshausen, M. Rodriguez Cabal and J. Paritsis (2017) Control costs and impacts of nonnative conifer invasions in Patagonia: problems and opportunities. 101st Ecological Society of America annual meeting. Portland, OR.

Barrios-García, M. N., A.T. Classen, D. Simberloff (2016) El disturbio del jabalí europeo altera la abundancia y riqueza de microartrópodos del suelo en matorrales de la Patagonia. XXVII Reunión Argentina de Ecología. Pto. Iguazú, Misiones, Argentina.

González-Polo M., **M.N. Barrios-Garcia**, M.J. Mazzarino (2015) El disturbio por un ingeniero ecosistémico invasor no altera el funcionamiento de las comunidades microbianas del suelo. 4^º Congreso Nacional de Ecología y Biología de Suelos. Esquel, Chubut, Argentina.

Quintero C., Paritsis J., **Barrios-García M.N.**, M.A. Rodriguez-Cabal (2014) Riqueza y composición de agallas a lo largo del gradiente altitudinal y de precipitación en el NO de la Patagonia, Argentina. XXVI Reunión Argentina de Ecología, Comodoro Rivadavia, Chubut, Argentina.

Barrios Garcia, M.N., D. Simberloff, A. Classen (2012) Exotic ecosystem engineer alters ecosystem structure and function in Patagonia. 97th Ecological Society of America annual meeting. Portland, OR, USA.

Rodriguez-Cabal, M.A., **Barrios Garcia M.N.**, Amico G.C., N. Sanders (2012) Direct and indirect impacts of introduced species on community dynamics. 97th Ecological Society of America annual meeting. Portland, OR, USA.

Nuñez M., J. Hayward, T. Horton, G. C. Amico, R. D. Dimarco, **M. N. Barrios-Garcia**, D. Simberloff (2012) Non-Native mammals disperse non-native fungi that promote invasion of non-native trees. 97th Ecological Society of America annual meeting. Portland, OR, USA.

Barrios Garcia, M.N. and D. Simberloff (2011) Linking the pattern to the mechanism: How wild boar (*Sus scrofa*) promote plant invasion. 96th Ecological Society of America annual meeting. Austin, TX, USA.

Rodriguez-Cabal, M. A., **Barrios-Garcia M. N.**, and N.J. Sanders (2011) Indirect effects of exotic ungulates disrupt a keystone seed-dispersal mutualisms in the temperate forest of Patagonia. 96th Ecological Society of America annual meeting. Austin, TX, USA.

Simberloff D., Nuñez M., Relva M.A. Horton T., **N. Barrios** (2011) Impacts and management of a complex multi-species invasion. Joint Meeting of the 2nd Kentucky Invasive Species Conference and the 13th Annual Southeast Exotic Pest Plant Council Conference, USA.

Soteras F., **Barrios Garcia M. N.**, Nouhra E., Simberloff D., L. Domínguez (2010) Esporas de hongos en excrementos de Jabalí (*Sus scrofa* L.) en el parque Nacional Nahuel Huapi. I Congreso Latinoamericano (IV Argentino) de Conservación de la Biodiversidad.

Barrios Garcia, M.N., D. Simberloff, M.A. Relva (2010) Impact of rooting by feral pigs in native communities of northwestern Patagonia. IV Southern Connection Congress, Bariloche, Argentina.

Barrios Garcia Moar, M.N., M.A. Relva, T. Kitzberger (2004) Patrones de uso del bosque nativo por ciervos exóticos en el noreste de la Patagonia. II Binational Ecology Meeting, Mendoza, Argentina

OUTREACH PUBLICATIONS and TALKS

Barrios-Garcia M.N. (December 2023) Cambio climático y sus efectos en latinoamerica, Burlington VT. Mount Mansfield Union HighSchool.

Barrios-Garcia M.N. (February 2023) Online talk open to public at Native Plant Trust on "Tales from the Field", Framingham, MA. <https://www.nativeplanttrust.org/events/tales-field-stories-botany-class/>

Barrios-Garcia M.N. (January 2023). Activity at Burlington high school: Sustainable development goals at the Burlington City and Lake Semester program, Burlington, VT. Featured here: <https://btvcityandlake.org/2023/02/08/first-impressions/>

Barrios-Garcia M.N. (September 2022). Activity at Burlington high school: Sustainable development goals at the Burlington City and Lake Semester program, Burlington, VT. Featured here <https://btvcityandlake.org/2022/10/09/understanding-burlington/>

Barrios-Garcia M.N. (2019) Talk open to public: Causas y consecuencias del Cambio Climático. Fridays for Future-Bariloche, Argentina.

Barrios-Garcia (2018) Talk open to public: Invasive species: the case of wild boar in Patagonia. Scientist lectures series at Holden Arboretum. Cleveland, OH, USA.

Barrios-Garcia M. N. (2018) Talk open to public: Cambio ClimáticoCO2. PechaKucha de Verano. Bariloche, Argentina.

Barrios-Garcia M.N. (2017) Article: Los ciervos introducidos del Parque Nacional Nahuel Huapi. Naturaleza y Tecnología 77: 36-37.

Barrios-Garcia M. N. (2017) Talk at a high school: Qué son las especies introducidas? Jornada: Aprendamos a cuidar nuestro hogar: la tierra. Escuela Secundaria Rio Negro N 37, Bariloche, Argentina.

Barrios-Garcia M.N. (2014) Article: Especies Invasoras, una amenaza inadvertida. *Naturaleza y tecnología* 59:36-37.

Barrios-Garcia M.N. and D. Simberloff (2013) Article: Uma visão ampla sobre os perigos do porco monteiro. ((o)) eco: August 29, 2013. <http://www.oeco.org.br/convidados/27529-uma-visao-ampla-sobre-os-perigos-do-porco-monteiro> (Popular science blog)

Barrios-Garcia M. N., D. Simberloff, M.A. Relva (2011) Article: Primeras mediciones del impacto del hozado del jabalí (*Sus scrofa*) en la Isla Victoria. *Macroscopia* 2: 9-11. (National Park Scientific Journal)

Kubbing S., D. Simberloff, J Lockwood, **M.N. Barrios-Garcia**, E. Felker-Quinn, M. A. Nuñez, M. A. Rodriguez-Cabal, L. Souza, and R. D. Zenni. Article: Species origins DO matter! The Scientist, September 28, 2011. <http://the-scientist.com/2011/09/28/opinion-species-origins-do-matter/> (Popular science magazine)

Barrios-Garcia M. N. (2010) Talk at the National Park Services on "Actualización sobre estudios de especies exóticas de carácter invasor en el Parque Nacional Nahuel Huapi: Ciervo colorado, Ciervo dama, Jabalí y Visón americano"

Barrios Garcia, M. N. (2009) Article: Especies invasoras – Una amenaza inadvertida. Ecos del Parque. Año V/ Numero 10. (National Park Newsletter)

Barrios Garcia, M. N. (2008) Article: Especies invasoras: Causas y Consecuencias. Ecos del Parque Año IV/ Numero 7. (National Park Newsletter)

IN THE MEDIA

Invasión de jabalíes en Argentina: cuáles son los 3 impactos que generan y qué enfermedades pueden transmitir. Infobae, October 27, 2024.

<https://www.infobae.com/salud/ciencia/2024/10/25/invasion-de-jabalies-en-argentina-cuales-son-los-3-impactos-que-generan-y-que-enfermedades-pueden-transmitir/>

50 years of UVM Natural Areas: Carse Wetlands. Across the Fence, October 18, 2024.

https://www.youtube.com/watch?v=r05WC1_ShOw

Jabalíes: las estrategias para controlar la población en Nahuel Huapi. Rio Negro newspaper, November 9, 2019. <https://www.rionegro.com.ar/jabalies-las-estrategias-para-controlar-la-poblacion-en-nahuel-huapi-1166651/>

En qué consiste el proyecto de la bióloga que se reunió con Tillerson. Bariloche 2000, February 8, 2018. <https://www.bariloche2000.com/noticias/leer/en-que-consiste-el-proyecto-de-la-biologa-que-se-reunio-con-tillerson/112276>

Tillerson descansó en Bariloche y hoy se reúne con el canciller. La Nación newspaper, February 4, 2018. <https://www.lanacion.com.ar/2106511-tillerson-descanso-en-bariloche-y-hoy-se-reune-con-el-canciller>

Bariloche, uno de los diez elegidos para estudiar el cambio climático. Rio Negro newspaper, January 10, 2018. <http://www.rionegro.com.ar/bariloche/bariloche-uno-de-los-diez-elegidos-para-estudiar-el-cambio-climatico-BX4231300>

WORKSHOPS AND COURSES

“Social field safety” Workshop by Field Inclusive at University of Vermont (2024), “Metal Health First Aid” training at University of Vermont (2024), “Pedagogy and didactics in virtual teaching at University level” at Instituto Nacional de Formación Docente (2020), “Soil and Water pollution” Universidad Nacional de Rio Negro (2019), “Current knowledge and future goals on the impact of wild boar and feral swine in Argentina” (**workshop co-organizer**) at XXX Jornadas Argentinas de Mastozoología in Bahía Blanca, Argentina (2017); Modelos y Datos at Universidad Nacional del Comahue in Bariloche (2017); Functioning of Boreal Forest Ecosystems at the Swedish University of Agricultural Sciences in Arvidsjaur, Sweden (2009); R for biological sciences (**seminar co-organizer**) at the University of Tennessee, USA (2009); Best practices in Teaching at the University of Tennessee, USA (2007); Forest fragmentation in South America, Understanding Biodiversity loss by the Cemagref – UNCo in S. C. de Bariloche, Argentina (2006); Morphological and functional evolution of vertebrates at the Museo Argentino de Ciencias Naturales in Buenos Aires, Argentina (2004); Techniques of wildlife populations' assessment by the APN-WCS in Bariloche, Argentina (2004); and a Conservation workshop at the I Binational Ecology Meeting in Bariloche, Argentina (2001).

SERVICE

University of Vermont

Member, Environmental Studies curriculum committee, College of Arts and Sciences, University of Vermont (2022 -)

Member, Honors and Studies committee, Rubenstein School of Ecology and Natural Resources, University of Vermont (2021 - 2024)

Member, Traditional Ecological Knowledge search committee, University of Vermont (2022-2023)

Editorial

Associate editor, Biological Invasions (2019-)

Associate editor, Journal of Animal Ecology (2018-2024)

Associate editor, Macroscopia (2015-2019)

Reviewer for tenure and promotion

CONICET (2018, 2019, 2020, 2023)

Proposal reviewer for funding agencies

FONCyT (2021)

Israel Science foundation (2019)

PhD. Proposals reviewer

Universidad Nacional del Comahue (2016, 2021, 2025)

Reviewer for journals

Acta Oecologica, Acta Zoologica Bulgarica, Acta Zoologica Mexicana, Basic and Applied Ecology, BioInvasion Records, Biological Invasions, Biology Letters, BioScience, Conservation Biology, Conservation Science and Practice, Crop Protection, Ecography, Ecología Austral, Ecological Applications, Ecology, Ecology and Evolution, Ecosystems, European Journal of Wildlife Research, Forest Ecology and Management, Italian Journal of Zoology, Journal of Animal Ecology, Journal of Applied Ecology, Journal of Plant Ecology, Journal of Vegetation Science, Landscape Ecology, Nature Ecology and Evolution, Nature Sustainability, Notas sobre Mamíferos Sudamericanos, Pest Management Science, Pest Science, Plant and Soil, Plant Ecology, PLOS one, Royal Society Open

Science, South American Journal of Herpetology, Torrey Botanical Society, Wetlands, Wildlife Research.

Scientific consultant

Parque Nacional Nahuel Huapi, Bariloche, Argentina.