

CURRICULUM VITAE

María Daniela Rivarola

I. CURRENT POSITION

Assistant Professor
Regis University, Biology Department
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II. EDUCATION AND DEGREES

PhD in Ecology and Evolutionary Biology, University of Tennessee – 2022.
Master of Science in Ecology and Evolutionary Biology, University of Tennessee-2018.
Biologist. National University of Comahue – Argentina-2010.

III. SCIENTIFIC PUBLICATIONS

1) Peer reviewed.

Rivarola, M.D., Dein, J., Simberloff, D., Herrero, H.V., 2022. Assessing Protected Area Zoning Effectiveness with Remote Sensing Data: The Case of Nahuel Huapi National Park, Argentina. **Frontiers in Remote Sensing – Special issue: Women in Remote Sensing**, 3, <https://doi.org/10.3389/frsen.2022.901463>.

Rivarola, M. D., Simberloff, D., Leppanen, C., 2021. Nahuel Huapi National Park-Argentina: Conservation Effectiveness Assessment through Monitoring Small Mammal Communities. **PARKS**, 27(2), 15-26. DOI: 10.2305/IUCN.CH.2021.PARKS-27-2MDR.en

Rivarola, M. D., Simberloff, D., Leppanen, C., 2021. History of Protected Areas in Argentina: A Seesaw of Shifting Priorities and Policymaking in a Developing Country. **Environment and History**, 27(4) 515-548, <https://doi.org/10.3197/096734019X15740974883825>.

Balazote-Oliver, A., Amico, C. G., **Rivarola, M. D.**, Morales, J. M. 2017. Population dynamics of *Dromiciops gliroides* (Microbiotheriidae) in an austral

temperate forest. **Journal of Mammalogy** 98(4): 1179-1184.
<https://doi.org/10.1093/jmammal/gyx051>

Rivarola, M. D., Imizcoz, E., Amione, L. L. & Simberloff, D. 2015. Categorización y efectividad de las Áreas Protegidas: Estudio comparativo de las comunidades de micromamíferos en Reserva Natural Estricta, Parque Nacional y Reserva Nacional Nahuel Huapi, Argentina. **Mammalogy Notes** 2(2): 23.

Fontúrbel, E. F., Franco, M., Rodríguez-Cabal, M. A., **Rivarola, M. D.** & Amico, G. C. 2012. Ecological consistency across space: a synthesis of the ecological aspects of *Dromiciops gliroides* in Argentina and Chile. **Naturwissenschaften**. DOI 10.1007/s00114-012-0969-2

Morales, J. M., **Rivarola, M. D.**, Amico, G. C. & Carlo, T. A. 2012. Neighborhood effects on seed dispersal by frugivores: testing theory with a mistletoe-marsupial system in Patagonia. **Ecology** 93(4): 741-748.

2) Non- Peer reviewed.

Amico, G. C., Rodríguez-Cabal, M. A., **Rivarola M. D.** & Morales, J. M. 2011. Biología, rol ecológico y estado de conservación del monito del monte. **Macroscopía**. 2(2): 5-8 (ISSN 1853-2705)

IV. ACADEMIC POSITIONS

1. 07-2020 to 05-2022 Graduate Instructor in Ecology Field-Based Laboratory, Ecology and Evolutionary Biology Department, University of Tennessee.
2. 01-2021 to 05-2021 Graduate Instructor in Biological Literacy, University of Tennessee.
3. 07-2020 to 12-2020 Graduate Instructor in Ecology Field-Based Laboratory, Ecology and Evolutionary Biology Department, University of Tennessee.
4. 07-2019 to 12-2019 Graduate Instructor in Ecology Field-Based Laboratory, Ecology and Evolutionary Biology Department, University of Tennessee.
5. 07-2018 to 12-2018 Graduate Instructor in Organismal and Ecological Biology-Skills of Biological Literacy, Ecology and Evolutionary Biology Department, University of Tennessee.
6. 07-2016 to 12-2017 Graduate Instructor in Ecology Field-Based Laboratory, Ecology and Evolutionary Biology Department, University of Tennessee..
7. 07-2015 to 12-2015 Graduate Instructor in Skills of Biological Investigations, Ecology and Evolutionary Biology Department, University of Tennessee.

8. 07-2014 to 12-2014 Graduate Instructor in Skills of Biological Investigations, Ecology and Evolutionary Biology Department, University of Tennessee.
9. 07-2013 to 05-2014 Graduate Instructor in Skills of Biological Investigations, Ecology and Evolutionary Biology Department, University of Tennessee.
10. 03-2019 to 07-2019 Teaching Assistant in General Ecology, Zoology Department, National University of Comahue, Argentina.
11. 03-2006 to 07-2006 Teaching Assistant in Invertebrates A, Zoology Department, National University of Comahue, Argentina.

V. PROFESSIONAL EXPERIENCE

August-December 2019. Laboratory Manager and Quality Assurance Officer. Assured Bio Labs - Environmental Laboratory. Accreditation and Certification compliance (i.e., ISO/IEC 17025, AIHA-LAP EMLAP, NYS DOH ELAP). Process improvement and optimization. Team management. Daily monitoring team productivity. Quality assurance. Internal audit, quality control audit, data integrity audit. Project management and data analytics. Grant assessment, revision, and management (i.e., SBIR, VA Solicitations). Reporting (i.e., Legionella culture, USP 797, research and product testing projects). Procurement and inventory. Vendor evaluation and correspondence. Revision and restructuring of Standard Operating Procedures. Root cause analysis.

January-April 2015 and 2016. Project coordinator and supervisor at Nahuel Huapi National Park, Argentina, coordinating a group of eight field technicians during weekly surveys on the abundance of small mammals, vegetation, and arthropods across different levels of protection (Strict National Reserve, National Park, National Reserve, unprotected area). PI Dr Dan Simberloff.

September 2011- June 2012, Field Supervisor at Fray Jorge National Park, Chile (<http://www.bios.edu/frayjorge/index.html>), coordinating a group of field technician during monthly surveys on the abundance of small mammal, vertebrate predators, plants, and seeds as part of a long-term ecological project directed by Dr Douglas A. Kelt (University of California), Dr Peter L. Meserve (Northern Illinois University) and Dr Julio R. Gutierrez Camus (Universidad de La Serena).

December 2008, Field Technician in Project “Afforestation effect over steppe-forest ecotone in NW of Patagonia”. Small mammal trapping using Sherman traps, and carnivorous detection using camera traps.

August 2006, Field Assistant in Project EDEN in Sweden (Emerging Disease in a changing European eNvironment), Centre for Microbiological Preparedness, Swedish Institute for Infectious Disease Control, director Professor Åke Lundkvist, Umeå, Sweden. Delimitation of the study area, rodents sampling

using snap traps, captured individuals later dissected to analyse the presence of zoonotic agents (Hantavirus). Trainee position.

January-July 2006, Laboratory Assistant. Supercritical Extraction Laboratory, National University of Comahue, Bariloche, Argentina. Literature review and development of a bio-safety protocol for field workers in areas with a high incidence of Hantavirus, chemical analysis (qualitative y quantitative). Paid trainee position.

January 2004- December 2005, Technician. “Fundación Salmónidos de Angostura, Centro de Repoblación de Salmónidos Río Bonito” (Angostura Salmonid Foundation, Centre for Salmonid Restoration) Villa la Angostura, Neuquén, Argentina. Task performed: sampling of sexual mature salmonids during their swimming up trip by entrapment gear, manual spawning, and fecundation. Incubation system maintenance, alevins feeding and release.

September 1999- December 2000, Laboratory Assistant. Mastozoology Division of National Museum of Natural Sciences of La Plata, Argentina. Identification of small mammals from owl’s pellets; Organization of collection material and their tags’ information. Trainee position.

September 1999- December 2000, Laboratory Assistant. Vertebrate Palaeontology Division of National Museum of Natural Sciences of La Plata, Argentina, July 1999-december 2000. Palaeontological samples processing into an existing database. Training in transport and storing of a fragile material.

VI. FELLOWSHIP / FUNDING

1. 2018 - Travel Award, Rockefeller University
2. 2017- Chancellor’s Fellowship, University of Tennessee
3. 2017- Training and Travel 2017, British Ecological Society
4. 2017- Graduate Student Senate Travel Awards, University of Tennessee
5. 2013-2014-2015-2016- Chancellor Research Funds, University of Tennessee
6. 2013-2014-2015-2016- Ecology and Evolutionary Biology Department Research Funds, University of Tennessee
7. 2006-2007 Selected student for ALFA PROGRAM in order to carry out courses and training at Swedish University of Agricultural Sciences (SLU), Umeå, Sweden.

VII. PROFESSIONAL HONORS

2016- Sigma Xi Student Research Conference Superior Presentation

VIII. PROFESSIONAL SOCIETIES AND ORGANIZATIONS

1. SAREM, Argentinian Society of Mammals Studies
2. Sigma XI, The Scientific Research Society
3. ASM, American Society of Mammalogists
4. British Ecological Society

IX. SCIENTIFIC MEETINGS AND WORKSHOPS

- Ecology Across Borders, British Ecological Society, 12-15 December 2021, Liverpool, UK.
- 2nd Annual Science Policy Symposium, 11 November 2018, Rockefeller University, New York.
- 12th International Mammalogical Congress “Advances in Mammalogy in Changing World”, 9-14 July 2017, Perth, Australia.
- 2016 Sigma XI’s Annual Meeting and Student Research Conference “Scientific Research today: Solving problems, answering questions, and informing decisions”, 11-13 November 2016, Atlanta, Georgia.
- III Latin-American Conference of Mastozoology, 1-5 December 2015, Bogotá, Colombia. Pontificia Universidad Javeriana, Sociedad Colombiana de Mastozoología (SCMas).
- Conservation Workshop in Patagonia: Integrating Science and Management, 26-27 September 2012, Bariloche, Argentina. INIBIOMA, CENPAT, CONICET, UNCO, NSF y CONICYT.
- Ecotoxicology, from 06 August 2012 to 17 September 2012, UNSAM-CITEFA, Argentina (80h). Professors: Dr. Gerardo Castro and Dra. Estela Planes.
- Ecology models and data in R, 21-25 November 2011, UNComa-CRUB, (40h). Professor: Dr. Juan Manuel Morales (INIBIOMA – UNComa-CRUB), Dra. Natacha Chacoff (IADIZA, CCT-CONICET).
- Remote Sensing technologies for environmental monitoring: from physical principles to applications, 9-13 May 2011, UNComa-CRUB, Argentina, (40h). Professor: Dra. Rosa Lassaponara (Florence University, Italy)
- VI Southern Connection Congress, 15-19 February 2010, Bariloche, Argentina. National University of Comahue, National Institute of Agricultural Technology (INTA) and National Commission of Sciences and Technology (CONICET).
- X International Mammalogical Congress, 9-14 August 2009, Mendoza, Argentina, Biodiversity Research Group- GIB, Sociedad Argentina para el Estudio de Mamíferos-SAREM, International Federation of Mammalogists- IFM, CONICET CCT Mendoza.

- Toxicology I: “Toxic kinetics; Toxicity mechanism”, from 24 March 2008 to 05 May 2008, UNSAM-CITEFA, Argentina (80 h). Professors: Dr. Gerardo Castro and Dr. José A. Castro.
- III Nordic Workshop for PhD student on *Salmo salar* and *Salmo trutta* Research (NoWPaS), 22-25 March 2007, Jyväskylä, Finland. Coordinator Morten Stickler.
- II National Meeting on Infectious Biology, 5-6 October 2006, Umeå, Sweden. Coordinator Dr. Ulrich von Pawel-Rammingen.
- Electro-fishing workshop, 11-18 September 2006, Aquiculture Department, Swedish University of Agricultural Sciences. Professor Anders Alanärä.
- XV Jornadas Argentinas de Mastozología (Mastozoology Argentinean Congress) 8-10 November 2000, La Plata, Argentina.
- I Wildlife Argentinian Conference, 26-28 October 2000, La Plata, Argentina.
- XIV Argentinian Conference of Mastozoology, 8-10 November 1999, Salta, Argentina.
- Workshop: Sampling techniques of small mammals, 9-10 November 1999, Salta, Argentina.