

FLORENCIA GRATTAROLA

Postdoc Researcher



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BIO

I am a Uruguayan biologist (PhD) doing research in Macroecology and Biodiversity Informatics. I currently work as a postdoc researcher at the Czech University of Life Sciences ([MOBI Lab](#)), focused on studying spatial and temporal patterns of biodiversity. I am also the founder of [Biodiversidata](#) (Uruguayan Consortium of Biodiversity Data), a member of the [JULANA NGO](#), the administrator of [NaturalistaUY](#) (the iNaturalist site for Uruguay), and a [NatGeoExplorer](#). I co-chair the RDA Sharing Rewards and Credit Interest Group ([SHARC](#)) and I am a GBIF [Open Data Ambassador](#). I am a [The Carpentries](#) Instructor. Recently, I also joined the IUCN SSC [Species Monitoring](#) Specialist Group.

EDUCATION

2017 – 2021	Ph.D., Life Sciences Evolution and Ecology Research Group, School of Life Sciences. Dissertation: Biodiversity informatics and macroecological patterns of biodiversity: Uruguay as a model region. Advisor: Daniel Pincheira-Donoso	University of Lincoln, United Kingdom
2013 – 2015	M.Sc., Biological Sciences (Genetics) Department of Biodiversity and Genetics, Clemente Estable Biological Research Institute. Dissertation: Contributions of molecular ecology to the study of mammals in Uruguay. Advisors: Susana González and Mariana Cosse	Universidad de la República, Uruguay
2006 – 2012	B.Sc. (Hons), Biological Sciences Department of Biodiversity and Genetics, Clemente Estable Biological Research Institute. Project: Development of molecular tools for the taxonomic identification of different carnivore species. Advisor: Mariana Cosse	Universidad de la República, Uruguay

PROFESSIONAL EXPERIENCE

05/2023 – 08/2023	Consultant Open Research Data Incentive Programme	Agencia Nacional de Investigación e Innovación (Uruguay)
04/2021 – present	Postdoc Range dynamics of Neotropical carnivores in the MOBI Lab, Department of Spatial Sciences.	Czech University of Life Sciences (Czech Republic)
01/2021 – 04/2021	Intern Knowledge Management internship in the Conserving Land and Seascapes Team	UN Environmental Programme - World Conservation Monitoring Centre (Cambridge, UK)
08/2018 – 12/2020 part time	Demonstrator Demonstrating for courses of Zoology, Paleontology, and Biological Anthropology at the School of Life Sciences	University of Lincoln (Lincoln, United Kingdom)
01/2017 – 07/2017 part time	Project Manager Co-coordination of the project 'Conservation in private protected areas of Uruguay'	Vida Silvestre NGO (Montevideo, Uruguay)
11/2016 – 03/2017	Research Assistant Bioinformatics and genomics at the Department of Animal Genetics, School of Veterinary	Universidad de la República (Montevideo, Uruguay)
10/2016 – 11/2016	Field Assistant Sampling plots of vascular plants for the project 'Rural Futures'	Technische Universität Berlin (Uruguay)
11/2015 – 10/2016 part time	Technician Livestock pedigree data management	Rural Association of Uruguay (Montevideo, Uruguay)
11/2015 – 10/2016 part time	Research Assistant Bioinformatics and comparative genomics of Salmonella at the Institute of Hygiene, School of Medicine	Universidad de la República (Montevideo, Uruguay)
01/2012 – 12/2015	Research Assistant Research and teaching at the Department of Biodiversity and Genetics	Clemente Estable Biological Research Institute (Montevideo, Uruguay)

PEER-REVIEWED ARTICLES

17. Finn C., Grattarola F. & Pincheira-Donoso D. (2023) More losers than winners: investigating Anthropocene defaunation through the diversity of population trends. *Biological Reviews*. [\[link\]](#)
16. Grattarola F., Bowler D.E. & Keil P. (2023) Integrating presence-only and presence-absence data to model changes in species geographic ranges: An example in the Neotropics. *Journal of Biogeography*. [\[link\]](#)
15. Moudrý V., Keil P., Cord A.F., Gábor L., Lecours V., Zarzo-Arias A., Barták V., Malavasi M., Rocchini D., Torresani M., Gdulová K., Grattarola F., Leroy F., Marchetto E., Prošek J., Thouverai E., Wild J. & Šimová P. (2023) Scale mismatches between predictor and response variables in species distribution modelling: a review of practices for appropriate grain selection. *Progress in Physical Geography*. [\[link\]](#)
14. Zarzo-Arias A., Penteriani V., Gábor L., Šimová P., Grattarola F., & Moudrý V. (2022) Importance of Data Selection and Filtering in Species Distribution Models: A Case Study on the Cantabrian Brown Bear. *Ecosphere*, 13(12): e4284. [\[link\]](#)
13. Callaghan C.T., Mesaglio T., Ascher J.S, Brooks T.M., Cabras A.A., Chandler M., Cornwell W.K., Rios-Málaver I.C., Dankowicz E., Dhiya'ulhaq N.U., Fuller R.A., Galindo-Leal C., Grattarola F., [...], & Young A.N. (2022) The Benefits of Contributing to the Citizen Science Platform iNaturalist as an Identifier. *PLOS Biology*, 20(11): e3001843. [\[link\]](#)
12. Pincheira-Donoso D., Harvey L.P., Grattarola F., Jara M., Cotter S.C., Tregenza T. & Hodgson D.J. (2021) The multiple origins of sexual size dimorphism in global amphibians. *Global Ecology and Biogeography*, 30(2): 443-458. [\[link\]](#)
11. Grattarola F., Martínez-Lanfranco, J.A., [...], & Pincheira-Donoso D. (2020) Multiple forms of hotspots of tetrapod biodiversity and the challenges of open-access data scarcity. *Scientific Reports*, 10(1): 1-15. [\[link\]](#)
10. Grattarola F., Mai, P., [...], & Pincheira-Donoso D. (2020) Biodiversidata: A novel dataset for the vascular plant species diversity in Uruguay. *Biodiversity Data Journal*, 8: e56850. [\[link\]](#)
9. Grattarola F. & Rodríguez-Tricot L. (2020) Mammals of Paso Centurión, an area with relicts of Atlantic Forest in Uruguay. *Neotropical Biology and Conservation*, 15(3): 267–283. [\[link\]](#)
8. D'Alessandro B., Pérez Escanda V., Balestrazzi V., Grattarola F., [...], & Betancor L. (2020) Comparative genomics of Salmonella enterica serovar Enteritidis ST-11 isolated in Uruguay reveals lineages associated with particular epidemiological traits. *Scientific Reports*, 10: 3638. [\[link\]](#)
7. Grattarola F., Botto, G., [...], & Pincheira-Donoso D. (2019) Biodiversidata: an open-access biodiversity database for Uruguay. *Biodiversity Data Journal*, 7: e36226. [\[link\]](#)
6. Grattarola F. & Pincheira-Donoso D. (2019) Data-sharing in Uruguay, the vision of collectors and data users. *Boletín de la Sociedad Zoológica del Uruguay*, 28(1): 1-14. [\[link\]](#)
5. Bergós L., Grattarola F., Barreneche J.M., Hernández D., & González S. (2018) Fogones de Fauna: an experience of participatory monitoring of wildlife in rural Uruguay. *Society & Animals*, 26(2), 171-185. [\[link\]](#)
4. Chouhy M., Santos C., Gaucher L., Grattarola F., [...], & Perazza, G. (2017) At the frontiers of knowledge: the quest for an integral training course on society-nature. *Integralidad Sobre Ruedas*, 4(1): 62–77. [\[link\]](#)
3. Cosse M., Grattarola F. & Mannise N. (2017) A novel real-time TaqMan™PCR assay for simultaneous detection of Neotropical fox species using noninvasive samples based on cytochrome C oxidase subunit II. *Mammal Research*, 62(4): 405–411. [\[link\]](#)
2. Grattarola F., Hernández D., [...], & Rodríguez-Tricot R. (2016) First record of jaguarundi (Puma yagouaroundi) (Mammalia: Carnivora: Felidae) in Uruguay, with comments about participatory monitoring. *Boletín de la Sociedad Zoológica del Uruguay*, 25(1): 85–91. [\[link\]](#)
1. Grattarola F., Cosse M. & González S. (2015) A novel primer set for mammal species identification from feces samples. *Conservation Genetic Resources*, 7: 57–59. [\[link\]](#)

PRE-PRINT ARTICLES

4. Grattarola F., Rodríguez-Tricot L., Zarucki M. & Laufer G. (2023) Status of the invasion of Carpobrotus edulis in Uruguay based on community science records. *Research Square PREPRINT*. [\[link\]](#)

3. Tschernosterová K., Trávníčková E., Grattarola F. & Keil P. (2023) SPARSE 1.0: a template for databases of species inventories, with an open example of Czech birds. **ARPHA Preprints**. [\[link\]](#)
2. Grattarola F., Bowler D.E. & Keil P. (2022) Integrating presence-only and presence-absence data to model changes in species geographic ranges: An example of yaguarundi in Latin America. **EcoEvoRxiv**. [\[link\]](#)
1. Pincheira-Donoso D., Harvey L.P., Guirguis J., Goodyear L.E.B., Finn C., Johnson J.V., Grattarola F. (2022) Temporal and spatial patterns of vertebrate extinctions during the Anthropocene. **bioRxiv**. [\[link\]](#)

BOOKS

1. Chouhy M., Bergós L., Garay A., Grattarola F., Perazza G., Santos C. & Taks J. (2022) Relaciones Sociedad-Naturaleza en Paso Centurión. Aportes desde una trayectoria integral universitaria en la frontera noreste de Uruguay. **Servicio Central de Extensión y Actividades en el Medio Universidad de la República**. [\[link\]](#)

GRANTS, FUNDING

2022	Capacity Enhancement Support Programme	Global Biodiversity Information Facility (GBIF)
	£14,000 Project 'Extending knowledge on biodiversity data quality and publication in the Spanish-speaking community' CESP2021-007 [link]	
2021 – 2022	Citizen Science for Species Discovery Grant	National Geographic Society
	£25,000 Project 'Naturalista UY – The iNaturalist community for Uruguay' (Uruguay)	
2019	College of Science Grant for Postgraduate Students	University of Lincoln
	£750 Attend the conference 'Biodiversity Next' (Leiden, The Netherlands)	
2019	Travel Grant for Postgraduate Students	University of Lincoln
	£500 Attend the course 'Advancing in statistical modelling for evolutionary biologists and ecologists using R' (Glasgow, Scotland)	
2018	Mobility Fund for Postgraduate Research Students	Santander - University of Lincoln
	£500 Deliver the 'First meeting of the members of Biodiversidata' (Montevideo, Uruguay)	
2018	Travel Grant for Early Career European Researchers & Scientists	Research Data Alliance (RDA)
	£1,500 Attend the '11th RDA Plenary Meeting' (Berlin, Germany)	
2017 – 2020	Ph.D. International Fellowship	National Agency for Research and Innovation (ANII)
	£49,000 Postgraduate Fellowship POS_EXT_2016_1_136663 (Lincoln, United Kingdom)	
2017	Travel Grant for Postgraduate Students	Centro Brasileiro-Argentino de Biotecnologia (CBAB/CABBIO)
	£1,800 Attend the Course 'Bioinformatics Tools for RNA-Sequence Data Analysis' at Laboratório Nacional de Computação Científica (Petrópolis, RJ, Brasil)	
2015	Internship Grant for Postgraduate Students	Association of Universities of the Montevideo Group (AUGM)
	£1,500 Internship stay at the Laboratório de Biodados, Universidade Federal de Minas Gerais (UFMG) (Belo Horizonte, Brazil)	
2013	Internship Grant for Postgraduate Students	Program for the Development of Basic Sciences (PEDECIBA)
	£1,500 Internship stay at Bioinformatics at the Department of Biochemistry and Molecular Biology, University of Mississippi (Starkville, United States)	
2013 – 2015	Posgraduate National Fellowship	National Agency for Research and Innovation (ANII)
	£8,500 Postgraduate Fellowship POS_NAC_2012_1_8976 (Montevideo, Uruguay)	
2012	Travel Grant	Latin American Network for Conservation Genetics (REGENEC)
	£1,500 Attend the 'VIII Genetic Workshop for Conservation: new tools and new concepts' (Chillán, Chile)	
2012	Mobility Grant	Association of Universities of the Montevideo Group (AUGM)
	£2,000 A semester at Universidade Estadual de Jaboticabal (UNESP) (Jaboticabal, SP, Brazil)	
2011 – 2012	Undergraduate National Fellowship	National Agency for Research and Innovation (ANII)
	£2,000 Initiation in Research Fellowship BE_INI_2010_1961 (Montevideo, Uruguay)	

STUDENTS

Enzo Cavalli, BSc (Honours) in Biological Sciences, School of Science, **Universidad de la República**. Project: 'Effects of livestock on the mammal community of Paso Centurión, Cerro Largo'. Advisor, finished in 2019. [[thesis](#)]

Rodrigo Montiel, BSc (Honours) in Biological Sciences, School of Science, **Universidad de la República**. Project: 'NaturalistaUY as a community science tool to improve biodiversity knowledge in Uruguay'. Advisor, ongoing. [[github repo](#)]

LECTURING

2022	Spatial Ecology and Macroecology Practical classes in the posgraduate course for 6-8 students. Taught together with François Leroy and led by Dr. Petr Keil [syllabus]	Faculty of Environmental Sciences, CZU (Czech Republic)
2017 – 2019 two editions	Modern Mammals Lecture in the graduate course of Palaeontology, for 15-20 students. Invited by Dr. Richard Fariña [slides]	School of Science, Universidad de la República (Uruguay)
2018	Management and analysis of camera trap records using R Course for NGOs, researchers and government people. Taught together with Juan M. Barreneche and Gabriel Perazza [syllabus]	Ministry of Environment (Uruguay)
2016 – 2017 two editions	Introduction to Python Lecture at posgraduate course 'Introduction to command line and programming for bioinformatic analysis', for 25-30 students in Biological Sciences. Invited by Dr. Andrés Iriarte [syllabus]	Universidad de la República, Uruguay
2013 – 2017 four editions	Relationships between Society and Nature Graduate course for 10-20 students of Anthropology, Biology, Geography and Social Sciences. Taught together with Carlos Santos, Javier Taks, Magdalena Chouhy, Andrea Garay, Lucía Bergós and Gabriel Perazza [link to S&N Group]	Universidad de la República, Uruguay
2014	Environmental education and community involvement Lecture at posgraduate course 'Conservation biology' for 15-20 students in Biological Sciences. Invited by Dr. Susana González.	Universidad de la República, Uruguay
2014	Introduction to Biology Discussion group for the course Introduction to Biology School or 15-20 undergraduate students of Biological Sciences. Taught together with Dr. Juan Cristina.	Universidad de la República, Uruguay

SERVICE FOR JOURNALS

Frontiers of Biogeography
Biodiversity Data Journal
Global Ecology and Biogeography
Journal of Biogeography

CITATION METRICS

[Google Scholar](#) (08/2023)
152 citations, h-index = 7

ACADEMIC MEMBERSHIPS

2023 – Ecological Society of America.
2021 – International Biogeography Society.
2020 – GBIF Biodiversity Open Data Ambassador.
2019 – Organization for Women in Science for the Developing World (OWSD).
2018 – British Ecological Society (BES).
2018 – Research Data Alliance (RDA) - SHARC Interest Group.
2013 – Interdisciplinary Group on Society-Nature Relationships (RETEMA).
2012 – Latin American Network for Conservation Genetics (REGENEC).
2010 – Zoological Society of Uruguay (SZU).

TRAINING

2023	Instructor Training: Data Carpentry, Library Carpentry, and Software Carpentry The Carpentries	Virtual
2023	NIMBLE course University of California, Berkeley	Virtual
2022	Joint Species Distribution Modelling with Hierarchical Modelling of Species Communities Jyväskylä University	Jyväskylä, Finland
2022	Research Data Science Summer School CODATA-RDA	Trieste, Italy

2022	Taller Avanzado de Formación en Comunicación Científica Bardo Científico & Academia de Ciencias de América Latina	Virtual
2020	Using Python to Access Web Data Coursera	Virtual
2019	Species Distribution Modelling: Fundamentals and the Future University of Nottingham, British Ecological Society	Nottingham, UK
2019	Advancing in statistical modelling for evolutionary biologists and ecologists using R PR Statistics	Glasgow, Scotland
2017	Bioinformatics Tools for RNA-Sequence Data Analysis Laboratório Nacional de Computação Científica	Petrópolis, Brazil
2017	From Complex Networks to Social Networks: Introduction to the Use of Big Data Espacio Interdisciplinario, Universidad de la República	Montevideo, Uruguay
2016	WGCAC Human and Vertebrate Genomics: Bioinformatics Tools and Resources Wellcome Trust, UK	Montevideo, Uruguay
2015	Next Generation Sequencing Strategies Universidade Federal de Minas Gerais	Belo Horizonte, Brazil

CONFERENCE TALKS

2023	Assessing hotspots of geographic range changes for charismatic carnivores in the Neotropics using Integrated Species Distribution Models (ISDM) <u>Grattarola F.</u> , Bowler E. D. & Keil P. / Ecological Society of America Annual Meeting (ESA) [abstract]	Portland, USA
2023	Towards implementable recommendations (SHARC) Shmagun H., <u>Grattarola F.</u> , Erdmann C., Cambon-Thomsen A., Thomsen M. & Mabile L. / 20th Plenary of the Research Data Alliance (RDA) [session notes]	Gothenburg, Sweden
2022	Data integration to model species geographic range dynamics. The jaguarundi (<i>Herpailurus yagouaroundi</i>) in Latin America as a case study <u>Grattarola F.</u> , Bowler E. D. & Keil P. / British Ecological Society Annual Meeting 2022 [slides]	Edinburgh, Scotland
2022 Invited	Biodiversidata: el Consorcio de Datos de Biodiversidad <u>Grattarola F.</u> / Jornada sobre Estrategia Latino Americana, Caribeña e Iberoamericana para la Información de Biodiversidad (GBIF, LifeWatch ERIC) [slides]	Sevilla, España
2022 Invited	Open data, community science and environmental education in Uruguay <u>Grattarola F.</u> / I Encuentro Internacional sobre Educación Abierta Ambiental: enseñanza, activismo e investigación [slides]	Rosario, Argentina - Online
2022	How Open Science activities are perceived and recognised in Research and the Research career <u>Grattarola F.</u> , Shmagun H., Mabile L. & Cambon-Thomsen A. / International Data Week 2022 - RDA Plenary Breakout [conference]	Seoul, Korea
2021	As a naturalist in my country, where are there more opportunities to fill in information gaps? <u>Grattarola F.</u> & Barreneche J.M. / LatinR Conference [code repo]	Online
2021	Roundtable: Activism through digital media <u>Grattarola F.</u> / 4th Conference on Digital Citizenship [video]	Montevideo, Uruguay
2021	The value of open education policies to promote environmental education <u>Grattarola F.</u> / CILAC Latin American Open Science Forum [video]	Online
2019	Biodiversity hotspots in Uruguay: real or fabricated? <u>Grattarola F.</u> & D. Pincheira-Donoso / British Ecological Society Annual Meeting [slides]	Belfast, Northern Ireland
2019	Biodiversidata: a collaborative initiative towards open data availability in Uruguay <u>Grattarola F.</u> & D. Pincheira-Donoso / Biodiversity Next Conference [abstract]	Leiden, The Netherlands
2019 Invited	Biodiversity data in Uruguay: a long way to go <u>Grattarola F.</u> / Biodiversity Informatics 101 Workshop at Biodiversity Next Conference	Leiden, The Netherlands
2019 Invited	Biodiversity hotspots in Uruguay <u>Grattarola F.</u> & D. Pincheira-Donoso / School of Life Sciences Postgraduate Symposium, University of Lincoln	Lincoln, United Kingdom

- 2019 **iNaturalist as a tool to enhance the conservation of biodiversity in Uruguay** Maldonado, Uruguay (online)
Grattarola F.* / Rufford Conference Uruguay [\[video\]](#)
- 2017 **Landscape genetics of the crab-eating fox *Cerdocyon thous* (Carnivora: Canidae)** Montevideo, Uruguay
Grattarola F.*, Bartesaghi L., Hernández D., Soutullo A., Mannise N., González S. & Cosse M. / IV Uruguayan Zoology Congress
- 2016 **Humans and fauna in Paso Centurión (Cerro Largo) from an interdisciplinary perspective** La Paloma, Uruguay
Chouhy M.*, Garay A., Bergós L., Gaucher L., Perazza G., Grattarola F. & Santos C. / III Interdisciplinary Conference on Biodiversity and Ecology
- 2016 **Democratization of information in the context of territorial management** Montevideo, Uruguay
Gaucher L.*, Hernández D., Grattarola F., Rodríguez-Tricot L., Duarte A., Perazza G. & González, S. / III Interdisciplinary Conference on Biodiversity and Ecology
- 2016 **Molecular detection of species and sex determination in road killed foxes in Uruguay** Lavras, Brazil
Mannise N.*, Cosse M., Grattarola F., Repetto L. & González S. / First Ibero-American Congress on Biodiversity and Road Infrastructure

SCI COMM

- 2023 **Ciencia participativa: Naturalista Uruguay**
Presentation at the Foro Mujeres Naturalistas en México y Latinoamérica [\[slides\]](#) [\[video\]](#)
- 2023 **iNaturalist the app with which anyone can provide information on flora and fauna in Uruguay**
Radio interview by Gastón González for En Perspectiva, Radiomundo 1170 AM [\[video\]](#) [\[soundcloud\]](#)
- 2022 **Workshop in preparation for the Greater Southern Bioblitz 2022 in NaturalistaUY**
Live talk streamed on YouTube for NaturalistaUY users [\[video\]](#)
- 2022 **Community science outreach with JULANA and NaturalistaUY**
Radio interview by Diego Varela and Fernanda Cabrera for Radio Fénix [\[video\]](#)
- 2022 **Scientific Pokemon Go**
Podcast episode by Soledad Machado for Medios Públicos [\[episode\]](#)
- 2020 **Biodiversidata began to digitize the herbarium of the National Museum of Natural History**
Press note by Leo Lagos for La Diaria [\[article\]](#)
- 2021 **iNaturalist - What is it and what can it do for our project?**
Talk with students of the Polo Educativo Tecnológico Arrayanes (Park Rangers) [\[slides\]](#)
- 2020 **Getting started with iNaturalist - Project RACATÚ**
Online talk with primary school students from rural school N102 of Berachi (Cerro Largo, Uruguay) [\[slides\]](#)
- 2020 **Uruguayans are wanted to participate in a platform that helps scientists**
Press note by Analía Filosi for Diario El País [\[press article\]](#)
- 2019 **iNaturalist: a bet on citizen science**
Talk at Museum of Natural History Torres de la Llosa [\[slides\]](#)
- 2019 **iNaturalist a citizen science tool to improve biodiversity knowledge in Uruguay**
Radio interview by Juan Vique in Radio Uruguay [\[audio clip\]](#)
- 2019 **The Uruguayan Consortium of Biodiversity Data, Biodiversidata, published the first open data set**
Press note by Leo Lagos for La Diaria [\[press article\]](#)
- 2019 **Series 'Gender and IT' - Pan Ceibal**
Online talk with students from Canelones, Paysandú, Tacuarembó and Treinta y Tres' primary schools in Uruguay
- 2019 **Biodiversidata: Biodiversity Open Data**
Online talk at the Third Edition of 'Datos y Cogollos: Open Data in Uruguay'. La Diaria Media Lab (Montevideo, Uruguay) [\[slides\]](#)
- 2019 **Exhibition 'A Computer of One's Own'**
Art exhibition about pioneer women in Computer Science at CSSconf and JSConf (Berlin, Germany) [\[project's website\]](#)

- 2018 **Big data in biodiversity**
Radio interview with Federico Weinstein in the science segment of the program Justicia Infinita, Radio Océano (93.9 FM) (Montevideo, Uruguay)
- 2017 **The Marsh Seedeater**
Video production for PROBIDES organization [[video](#)]
- 2016 **Drawn news: First record of a jaguarundi in Uruguay**
Video production for JULANA NGO [[video](#)]