

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](#). 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

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)
05/2012 – 04/2014 part time	Teaching Assistant Organization of outreach activities at the Extension Unit, School of Science	Universidad de la República (Montevideo, Uruguay)

PEER-REVIEWED ARTICLES

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

2. Grattarola F., Bowler E.D. & Keil P. (2022) Integrating presence-only and presence-absence data to model changes in species geographic ranges: An example of jaguarundi 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 £25,000 Project 'Naturalista UY – The iNaturalist community for Uruguay' (Uruguay)	National Geographic Society
2019	College of Science Grant for Postgraduate Students £750 Attend the conference 'Biodiversity Next' (Leiden, The Netherlands)	University of Lincoln
2019	Travel Grant for Postgraduate Students £500 Attend the course 'Advancing in statistical modelling for evolutionary biologists and ecologists using R' (Glasgow, Scotland)	University of Lincoln
2018	Mobility Fund for Postgraduate Research Students £500 Deliver the 'First meeting of the members of Biodiversidata' (Montevideo, Uruguay)	Santander - University of Lincoln
2018	Travel Grant for Early Career European Researchers & Scientists £1,500 Attend the '11th RDA Plenary Meeting' (Berlin, Germany)	Research Data Alliance (RDA)
2017 – 2020	Ph.D. International Fellowship £49,000 Postgraduate Fellowship POS_EXT_2016_1_136663 (Lincoln, United Kingdom)	National Agency for Research and Innovation (ANII)
2017	Travel Grant for Postgraduate Students £1,800 Attend the Course 'Bioinformatics Tools for RNA-Sequence Data Analysis' at Laboratório Nacional de Computação Científica (Petrópolis, RJ, Brasil)	Centro Brasileiro-Argentino de Biotecnologia (CBAB/CABBIO)
2015	Internship Grant for Postgraduate Students £1,500 Internship stay at the Laboratório de Biodados, Universidade Federal de Minas Gerais (UFMG) (Belo Horizonte, Brazil)	Association of Universities of the Montevideo Group (AUGM)
2013	Internship Grant for Postgraduate Students £1,500 Internship stay at Bioinformatics at the Department of Biochemistry and Molecular Biology, University of Mississippi (Starkville, United States)	Program for the Development of Basic Sciences (PEDECIBA)
2013 – 2015	Postgraduate National Fellowship £8,500 Postgraduate Fellowship POS_NAC_2012_1_8976 (Montevideo, Uruguay)	National Agency for Research and Innovation (ANII)
2012	Travel Grant £1,500 Attend the 'VIII Genetic Workshop for Conservation: new tools and new concepts' (Chillán, Chile)	Latin American Network for Conservation Genetics (REGENEC)
2012	Mobility Grant £2,000 A semester at Universidade Estadual de Jaboticabal (UNESP) (Jaboticabal, SP, Brazil)	Association of Universities of the Montevideo Group (AUGM)
2011 – 2012	Postgraduate National Fellowship £2,000 Initiation in Research Fellowship BE_INI_2010_1961 (Montevideo, Uruguay)	National Agency for Research and Innovation (ANII)

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.

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. Andris Iriarte [syllabus]	Universidad de la República, Uruguay

2013 – 2017
four editions

Relationships between Society and Nature

Universidad de la República, Uruguay

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](#)]

2014

Environmental education and community involvement

Universidad de la República, Uruguay

Lecture at posgraduate course 'Conservation biology' for 15-20 students in Biological Sciences. Invited by Dr. Susana González.

2014

Introduction to Biology

Universidad de la República, Uruguay

Discussion group for the course Introduction to Biology School or 15-20 undergraduate students of Biological Sciences. Taught together with Dr. Juan Cristina.

SERVICE FOR JOURNALS

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

CITATION METRICS

Google Scholar (11/2022)
97 citations, h-index = 5

ACADEMIC MEMBERSHIPS

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.
2018 – Uruguayan Consortium of Biodiversity Data (Biodiversidata).
2013 – Interdisciplinary Group on Society-Nature Relationships (RETEMA).
2012 – Latin American Network for Conservation Genetics (REGENEC).
2010 – Zoological Society of Uruguay (SZU).

TRAINING

- 2022 **Joint Species Distribution Modelling with Hierarchical Modelling of Species Communities** Jyväskylä, Finland
Jyväskylä University
- 2022 **Research Data Science Summer School** Trieste, Italy
CODATA-RDA
- 2020 **Using Python to Access Web Data** Virtual
Coursera
- 2019 **Species Distribution Modelling: Fundamentals and the Future** Nottingham, UK
University of Nottingham, British Ecological Society
- 2019 **Advancing in statistical modelling for evolutionary biologists and ecologists using R** Glasgow, Scotland
PR Statistics
- 2017 **Bioinformatics Tools for RNA-Sequence Data Analysis** Petrópolis, Brazil
Laboratório Nacional de Computação Científica
- 2017 **From Complex Networks to Social Networks: Introduction to the Use of Big Data** Montevideo, Uruguay
Espacio Interdisciplinario, Universidad de la República
- 2016 **WGCAC Human and Vertebrate Genomics: Bioinformatics Tools and Resources** Montevideo, Uruguay
Wellcome Trust, UK
- 2015 **Next Generation Sequencing Strategies** Belo Horizonte, Brazil
Universidade Federal de Minas Gerais

TALKS

- 2022 **Biodiversidata: el Consorcio de Datos de Biodiversidad** Sevilla, España
Invited Grattarola F.* / Jornada sobre Estrategia Latino Americana, Caribeña e Iberoamericana para la Información de Biodiversidad (GBIF, LifeWatch ERIC) [[slides](#)]
- 2022 **Open data, community science and environmental education in Uruguay** Online
Invited Grattarola F.* / I Encuentro Internacional sobre Educación Abierta Ambiental: enseñanza, activismo e investigación [[slides](#)]

- 2022 **How Open Science activities are perceived and recognised in Research and the Research career** Seoul, Korea
Grattarola F., Shmagun H., Mabile L. & Cambon-Thomsen A. / International Data Week 2022 - RDA Plenary Breakout [conference]
- 2021 **As a naturalist in my country, where are there more opportunities to fill in information gaps?** Online
Grattarola F. & Barreneche J.M. / LatinR Conference [code repo]
- 2021 **Roundtable: Activism through digital media** Montevideo, Uruguay
Grattarola F. / 4th Conference on Digital Citizenship [video]
- 2021 **The value of open education policies to promote environmental education** Online
Grattarola F. / CILAC Latin American Open Science Forum [video]
- 2020 Invited **Hotspots of biodiversity and the challenges of open-data scarcity** Online
Grattarola F. / Seminar of the Department of Spatial Sciences, Czech University of Life Sciences Prague
- 2019 **Biodiversity hotspots in Uruguay: real or fabricated?** Belfast, Northern Ireland
Grattarola F. & D. Pincheira-Donoso / British Ecological Society Annual Meeting [slides]
- 2019 **Biodiversidata: a collaborative initiative towards open data availability in Uruguay** Leiden, The Netherlands
Grattarola F. & D. Pincheira-Donoso / Biodiversity Next Conference [abstract]
- 2019 Invited **Biodiversity data in Uruguay: a long way to go** Leiden, The Netherlands
Grattarola F. / Biodiversity Informatics 101 Workshop at Biodiversity Next Conference
- 2019 Invited **Biodiversity hotspots in Uruguay** Lincoln, United Kingdom
Grattarola F. & D. Pincheira-Donoso / School of Life Sciences Postgraduate Symposium, University of Lincoln
- 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 *Cercopithecus 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

- 2022 **Workshop in preparation for the Greatern 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 [episodel]
- 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 [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 [\[radiocut\]](#)
- 2019 **The Uruguayan Consortium of Biodiversity Data, Biodiversidata, published the first open data set**
Press note by Leo Lagos for La Diaria [\[article\]](#)
- 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)
- 2019 **Exhibition 'A Computer of One's Own'**
Art exhibition about pioneer women in Computer Science at CSSconf and JSConf (Berlin, Germany) [\[project\]](#)
- 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 [\[video\]](#)