

# 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. \* I have Uruguayan and Italian citizenships.

## EDUCATION

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

## PROFESSIONAL EXPERIENCE

04/2021 – present	<b>Postdoc</b> Range dynamics of Neotropical carnivores in the MOBI Lab, Department of Spatial Sciences.	<b>Czech University of Life Sciences (Czech Republic)</b>
01/2021 – 04/2021	<b>Intern</b> Knowledge Management internship in the Conserving Land and Seascapes Team	<b>UN Environmental Programme - World Conservation Monitoring Centre (Cambridge, UK)</b>
08/2018 – 12/2020 part time	<b>Demonstrator</b> Demonstrating for courses of Zoology, Paleontology, and Biological Anthropology at the School of Life Sciences	<b>University of Lincoln (Lincoln, United Kingdom)</b>
01/2017 – 07/2017 part time	<b>Project Manager</b> Co-coordination of the project 'Conservation in private protected areas of Uruguay'	<b>Vida Silvestre NGO (Montevideo, Uruguay)</b>
11/2016 – 03/2017	<b>Research Assistant</b> Bioinformatics and genomics at the Department of Animal Genetics, School of Veterinary	<b>Universidad de la República (Montevideo, Uruguay)</b>
10/2016 – 11/2016	<b>Field Assistant</b> Sampling plots of vascular plants for the project 'Rural Futures'	<b>Technische Universität Berlin (Uruguay)</b>
11/2015 – 10/2016 part time	<b>Technician</b> Livestock pedigree data management	<b>Rural Association of Uruguay (Montevideo, Uruguay)</b>
11/2015 – 10/2016 part time	<b>Research Assistant</b> Bioinformatics and comparative genomics of Salmonella at the Institute of Hygiene, School of Medicine	<b>Universidad de la República (Montevideo, Uruguay)</b>
01/2012 – 12/2015	<b>Research Assistant</b> Research and teaching at the Department of Biodiversity and Genetics	<b>Clemente Estable Biological Research Institute (Montevideo, Uruguay)</b>
05/2012 – 04/2014 part time	<b>Teaching Assistant</b> Organization of outreach activities at the Extension Unit, School of Science	<b>Universidad de la República (Montevideo, Uruguay)</b>

## PEER-REVIEWED ARTICLES

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 of jaguarundi in the Neotropics. *Journal of Biogeography*. *in press*
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

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	<b>Capacity Enhancement Support Programme</b>	<b>Global Biodiversity Information Facility (GBIF)</b>
	£14,000   Project 'Extending knowledge on biodiversity data quality and publication in the Spanish-speaking community' CESP2021-007 <a href="#">[link]</a>	
2021 – 2022	<b>Citizen Science for Species Discovery Grant</b>	<b>National Geographic Society</b>
	£25,000   Project 'Naturalista UY – The iNaturalist community for Uruguay' (Uruguay)	
2019	<b>College of Science Grant for Postgraduate Students</b>	<b>University of Lincoln</b>
	£750   Attend the conference 'Biodiversity Next' (Leiden, The Netherlands)	
2019	<b>Travel Grant for Postgraduate Students</b>	<b>University of Lincoln</b>
	£500   Attend the course 'Advancing in statistical modelling for evolutionary biologists and ecologists using R' (Glasgow, Scotland)	
2018	<b>Mobility Fund for Postgraduate Research Students</b>	<b>Santander - University of Lincoln</b>
	£500   Deliver the 'First meeting of the members of Biodiversidata' (Montevideo, Uruguay)	
2018	<b>Travel Grant for Early Career European Researchers &amp; Scientists</b>	<b>Research Data Alliance (RDA)</b>
	£1,500   Attend the '11th RDA Plenary Meeting' (Berlin, Germany)	
2017 – 2020	<b>Ph.D. International Fellowship</b>	<b>National Agency for Research and Innovation (ANII)</b>
	£49,000   Postgraduate Fellowship POS_EXT_2016_1_136663 (Lincoln, United Kingdom)	
2017	<b>Travel Grant for Postgraduate Students</b>	<b>Centro Brasileiro-Argentino de Biotecnologia (CBAB/CABBIO)</b>
	£1,800   Attend the Course 'Bioinformatics Tools for RNA-Sequence Data Analysis' at Laboratório Nacional de Computação Científica (Petrópolis, RJ, Brasil)	
2015	<b>Internship Grant for Postgraduate Students</b>	<b>Association of Universities of the Montevideo Group (AUGM)</b>
	£1,500   Internship stay at the Laboratório de Biodados, Universidade Federal de Minas Gerais (UFMG) (Belo Horizonte, Brazil)	
2013	<b>Internship Grant for Postgraduate Students</b>	<b>Program for the Development of Basic Sciences (PEDECIBA)</b>
	£1,500   Internship stay at Bioinformatics at the Department of Biochemistry and Molecular Biology, University of Mississippi (Starkville, United States)	
2013 – 2015	<b>Postgraduate National Fellowship</b>	<b>National Agency for Research and Innovation (ANII)</b>
	£8,500   Postgraduate Fellowship POS_NAC_2012_1_8976 (Montevideo, Uruguay)	
2012	<b>Travel Grant</b>	<b>Latin American Network for Conservation Genetics (REGENEC)</b>
	£1,500   Attend the 'VIII Genetic Workshop for Conservation: new tools and new concepts' (Chillán, Chile)	
2012	<b>Mobility Grant</b>	<b>Association of Universities of the Montevideo Group (AUGM)</b>
	£2,000   A semester at Universidade Estadual de Jaboticabal (UNESP) (Jaboticabal, SP, Brazil)	
2011 – 2012	<b>Postgraduate National Fellowship</b>	<b>National Agency for Research and Innovation (ANII)</b>
	£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	<b>Spatial Ecology and Macroecology</b> Practical classes in the posgraduate course for 6-8 students. Taught together with François Leroy and led by Dr. Petr Keil <a href="#">[syllabus]</a>	Faculty of Environmental Sciences, CZU (Czech Republic)
2017 – 2019 two editions	<b>Modern Mammals</b> Lecture in the graduate course of Palaeontology, for 15-20 students. Invited by Dr. Richard Fariña <a href="#">[slides]</a>	School of Science, Universidad de la República (Uruguay)
2018	<b>Management and analysis of camera trap records using R</b> Course for NGOs, researchers and government people. Taught together with Juan M. Barreneche and Gabriel Perazza <a href="#">[syllabus]</a>	Ministry of Environment (Uruguay)
2016 – 2017 two editions	<b>Introduction to Python</b> 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 <a href="#">[syllabus]</a>	Universidad de la República, Uruguay
2013 – 2017 four editions	<b>Relationships between Society and Nature</b> 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 <a href="#">[link to S&amp;N Group]</a>	Universidad de la República, Uruguay
2014	<b>Environmental education and community involvement</b> Lecture at posgraduate course 'Conservation biology' for 15-20 students in Biological Sciences. Invited by Dr. Susana González.	Universidad de la República, Uruguay
2014	<b>Introduction to Biology</b> 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** (01/2023)  
107 citations, h-index = 6

## 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

2023	<b>NIMBLE course</b> University of California, Berkeley	Virtual
2022	<b>Joint Species Distribution Modelling with Hierarchical Modelling of Species Communities</b> Jyväskylä University	Jyväskylä, Finland
2022	<b>Research Data Science Summer School</b> CODATA-RDA	Trieste, Italy
2022	<b>Taller Avanzado de Formación en Comunicación Científica</b> Bardo Científico - Academia de Ciencias de América Latina	Virtual
2020	<b>Using Python to Access Web Data</b> Coursera	Virtual
2019	<b>Species Distribution Modelling: Fundamentals and the Future</b> University of Nottingham, British Ecological Society	Nottingham, UK
2019	<b>Advancing in statistical modelling for evolutionary biologists and ecologists using R</b> PR Statistics	Glasgow, Scotland
2017	<b>Bioinformatics Tools for RNA-Sequence Data Analysis</b> Laboratório Nacional de Computação Científica	Petrópolis, Brazil

- 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

## CONFERENCE TALKS

- 2022 **Data integration to model species geographic range dynamics. The yaguarundi (*Herpailurus yagouaroundi*) in Latin America as a case study** Edinburgh, Scotland  
Grattarola F., Bowler E. D. & Keil P. / British Ecological Society Annual Meeting 2022 [[slides](#)]
- 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** Rosario, Argentina - 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](#)]
- 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 **Biodiversity data in Uruguay: a long way to go** Leiden, The Netherlands  
Invited Grattarola F. / Biodiversity Informatics 101 Workshop at Biodiversity Next Conference
- 2019 **Biodiversity hotspots in Uruguay** Lincoln, United Kingdom  
Invited 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 *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

- 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 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 [[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](#)]