



## **Gonzalo Manuel Rodríguez Ruiz**

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## Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

My research fits in the field of evolutionary ecology: sexual selection, ecophysiology, and behavioral ecology. Since the defense of my thesis, in 2018, I have given rise to a good number of publications in several journals (16 SCI). Using reptiles as a study model, I addressed how health status, diet, stress level, or human disturbances influence the generation and perception of sexual signals, in the reproductive success and the body condition and behavior of offspring.

Because of their evolutionary consequences, the significant outcomes to be highlighted include the following: We confirmed the existence of a relationship between the production of attractive and costly sexual signals by males and the reproductive success of each one. However, two different reproductive strategies were revealed depending on whether males were healthy ('Asset protection strategy') or in poor condition ('Terminal investment strategy'). We also found that the effect of male-male competition and dominance hierarchy in the reproductive output is higher than expected; not only the female choice for the most attractive male is the main factor acting. Besides, we found maternal-condition-transfer effects; depending on the mothers' diet, the offspring would develop and behave in different ways, such as improving dispersal or remaining as a resident in the parental habitat. Other studies about the competition when foraging revealed that both rival assessment and rival recognition act when a decision about eat or not to eat prey in presence of a competitor. Recently, my studies have focused on the effects of disturbances on animal health. How the presence of humans or pollutants can affect the level of physiological stress, antioxidant capacity, and the development of melanin-based coloration.

Currently, my main job is focused on a new hypothesis related to the origin of sexual signals, departing from the female's physiological needs when choosing a male and the relationship with the sensory bias and the direct benefits hypotheses.

The results of my research have been published in prestigious journals such as Conservation Physiology, Behavioral Ecology, Behavioural Processes, Integrative Zoology, Behavioral Ecology and Sociobiology, Ecology and Evolution, Biological Journal of the Linnean Society, or Movement Ecology. Besides, communications have also been presented at international conferences such as the European Congress of Herpetology, Congresso Luso-Espanhol de Herpetologia, the International Congress of the Spanish Society of Ethology and Evolutionary Ecology, and the European Conference on Behavioural Ecology.

During this period, I was trained in advanced and avant-garde statistical analysis tools such as 'the animal model' (heritability analysis), 'the visual model' (color signals analysis),



and social network analysis. Regarding laboratory techniques, I learned how to perform analysis of hormones, oxidative stress markers, and other blood compounds using immune-assays, identification of volatile compounds with GC/MS, or genetic analysis for paternity determination.

I did join the Behavior and Ecology Group of Reptiles of the National Museum of Natural Sciences (MNCN-CSIC) with Prof. Dr. J. Martín and Dra. P. López. Moreover, I have collaborated with researchers from many places, such as Dr. G. Horváth, Univ. Eötvös Loránd Budapest (Hungary); Dra. C. Nisa-Ramiro, Univ. Saõ Paulo (Brazil); Prof. R. Sacchi Univ. Pavia (Italy); Dr. M. Zuffi Univ. Pisa (Italy). The last two collaborations are still active, and, currently, I have projects ongoing with Prof. D. Pellitteri-Rosa Univ. Pavia (Italy); Dra. K. Bajer Univ. Eötvös Loránd Budapest (Hungary); and Dra. O. Molnár Konrad Lorenz Institute, Klosterneuburg (Austria), among others.

I have also been involved in the dissemination of research outcomes, such as in the journal of the MNCN-CSIC (NaturalMente) and giving talks, such as in the 'Ciencia Serrana' talks held in localities of the Sierra de Guadarrama every year. Besides, I am the Coordinator of the Scientific Area of the Forum "Teilhard de Chardin" Science and Religion, held at the Univ. Salamanca. There, I configure the program of talks, act as a moderator in the seminars and debates, and give several lectures in Residence Halls to disseminate the scientific method, evolution by natural selection, and promote critical thinking among students.

During my postdoc stage, I supervised two master's theses; both are currently in the process of publishing. Regarding other teaching activities, during the years 2014 and 2015, I was a lecturer in the 'Herpetology' and 'Management and Conservation of Threatened Fauna' subjects in the master's degree in Biology and Biodiversity Conservation at the Univ. Salamanca; and, in 2019, I was invited to give a seminar on Herpetology to the students of "Biology II" in the degree of Environmental Sciences at the Univ. Rey Juan Carlos.

## Gonzalo Manuel Rodríguez Ruiz

Surname(s): **Rodríguez Ruiz**  
Name: **Gonzalo Manuel**  
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ScopusID: **57210440775**  
ResearcherID: **ABC-6995-2020**  
Personal web page: **<https://www.researchgate.net/profile/Gonzalo-Rodriguez-Ruiz>**

### Current professional situation

**Employing entity:** Consejo Superior de Investigaciones Científicas      **Type of entity:** State agency  
**Department:** Ecología Evolutiva, Museo Nacional de Ciencias Naturales  
**Professional category:** Postdoctoral researcher  
**City employing entity:** Madrid, Community of Madrid, Spain  
**Start date:** 03/12/2019  
**Type of contract:** Temporary employment contract  
**Identify key words:** Soil pollution; Behavioural biology; Functional biology; Animal physiology; Animal ethology

### Previous positions and activities

	<b>Employing entity</b>	<b>Professional category</b>	<b>Start date</b>
<b>1</b>	Consejo Superior de Investigaciones Científicas	Postdoctoral researcher (POP Grant)	15/09/2018
<b>2</b>	Consejo Superior de Investigaciones Científicas	Research Staff Training (FPI) Grants	01/12/2015
<b>3</b>	Europarques Hispanolusos	Biologist	01/08/2011

- 1** **Employing entity:** Consejo Superior de Investigaciones Científicas      **Type of entity:** State agency  
**Department:** Ecología Evolutiva, Museo Nacional de Ciencias Naturales  
**City employing entity:** Madrid, Community of Madrid, Spain  
**Professional category:** Postdoctoral researcher (POP Grant)  
**Start-End date:** 15/09/2018 - 14/09/2019      **Duration:** 1 year  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Dedication regime:** Full time
- 2** **Employing entity:** Consejo Superior de Investigaciones Científicas      **Type of entity:** Public Research Body  
**Department:** Ecología Evolutiva, Museo Nacional de Ciencias Naturales  
**City employing entity:** Madrid, Community of Madrid, Spain  
**Professional category:** Research Staff Training (FPI) Grants      **Educational Management (Yes/No):** No



**Start-End date:** 01/12/2015 - 14/09/2018

**Type of contract:** Grant-assisted student (pre or post-doctoral, others)

**Dedication regime:** Full time

- 3** **Employing entity:** Europarques Hispanolusos    **Type of entity:** Business  
**City employing entity:** Zamora, Castile and León, Spain  
**Professional category:** Biologist  
**Start-End date:** 01/08/2011 - 15/09/2011



## Education

### University education

#### 1st and 2nd cycle studies and pre-Bologna degrees

**1 University degree:** Higher degree

**Name of qualification:** Masters Degree in Biology and Biodiversity Conservation [Master Universitario en Biología y Conservación de la Biodiversidad]

**City degree awarding entity:** Salamanca, Castile and León, Spain

**Degree awarding entity:** Universidad de Salamanca **Type of entity:** University

**Date of qualification:** 05/09/2012

**2 University degree:** Higher degree

**Name of qualification:** Bachelor's Degree in Biology [Licenciado en Biología]

**City degree awarding entity:** Salamanca, Castile and León, Spain

**Degree awarding entity:** Universidad de Salamanca **Type of entity:** University

**Date of qualification:** 20/06/2011

#### Doctorates

**Doctorate programme:** Doctorate in Biology and Biodiversity Conservation [Programa Oficial de Doctorado en Biología y Conservación de la Biodiversidad]

**Degree awarding entity:** Universidad de Salamanca **Type of entity:** University

**City degree awarding entity:** Salamanca, Castile and León, Spain

**Date of degree:** 14/09/2018

**Thesis title:** Consecuencias de la variación individual de las señales químicas de los machos de lagartija carpetana (*Iberolacerta cyreni*) para su éxito reproductor, la organización social, las preferencias de las hembras y el fenotipo de la descendencia - [Consequences of individual variation in the chemical signals of male Carpetan lizards (*Iberolacerta cyreni*) for their reproductive success, social organisation, female preferences and offspring phenotype]

**Thesis director:** José Martín Rueda

**Thesis co-director:** Pilar López Martínez

**Obtained qualification:** Sobresaliente Cum Laude

#### Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

**1 Type of training:** Course

**Training title:** Ethics and integrity in research, 1st edition

**Awarding entity:** Agencia Estatal Consejo Superior de Investigaciones Científicas

**End date:** 25/05/2022

**Duration in hours:** 15 hours



- 2** **Type of training:** Diploma de Formación Continua  
**Training title:** Current approaches in behavioural ecology [Aproximaciones actuales en ecología del comportamiento]  
**Awarding entity:** Universidad Complutense de Madrid **Type of entity:** University  
**End date:** 10/07/2021 **Duration in hours:** 400 hours
- 3** **Training title:** Introduction to Python [Iniciación a la programación en Python]  
**Awarding entity:** Agencia Estatal Consejo Superior de Investigaciones Científicas  
**End date:** 21/05/2021 **Duration in hours:** 35 hours
- 4** **Type of training:** Course  
**Training title:** Tree-based Machine Learning techniques and their application in Natural Sciences with R [Técnicas de Machine Learning basadas en árboles y su aplicación en Ciencias Naturalesa con R]  
**Awarding entity:** SOCIEDAD DE AMIGOS DEL MUSEO DE CIENCIAS NATURALES  
**End date:** 11/09/2020 **Duration in hours:** 20 hours
- 5** **Training title:** Training in Risk Prevention in Field Activities [Formación en Prevención de Riesgos Laborales en Actividades de Campo en el CSIC]  
**Awarding entity:** Agencia Estatal Consejo Superior de Investigaciones Científicas  
**End date:** 03/12/2019 **Duration in hours:** 5 hours
- 6** **Training title:** Introduction to gas chromatography [Introducción a la cromatografía de gases]  
**Awarding entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
**End date:** 24/05/2019 **Duration in hours:** 25 hours
- 7** **Type of training:** Course  
**Training title:** A meeting with statistics and the language R [Un encuentro con la estadística y el lenguaje R]  
**Awarding entity:** Universidad de Salamanca **Type of entity:** University  
**Training manager:** Jorge L. Montero Muñoz  
**End date:** 06/10/2017 **Duration in hours:** 25 hours
- 8** **Training title:** Factorial designs and analysis of experiments in natural sciences [Diseños factoriales y análisis de experimentos en ciencias naturales]  
**Awarding entity:** SOCIEDAD DE AMIGOS DEL MUSEO DE CIENCIAS NATURALES  
**End date:** 03/02/2017 **Duration in hours:** 43 hours
- 9** **Training title:** Environmental educator [Educador Ambiental]  
**Awarding entity:** Instituto Erudite  
**End date:** 08/04/2011 **Duration in hours:** 300 hours

## Healthcare studies in R&D

- 1** **Name of the studies:** Trainig courses on Animal Experimentation: Functions A, B, C, D, E [Experimentación animal función A, B, C, D, E]  
**Awarding entity:** Centro de estudios biosanitarios  
**Start-End date:** 02/09/2019 - 11/09/2019



- 2 Name of the studies:** Animal Experimentation Formal Training: Animal care [Capacitación Experimentación Animal: Cuidado de Animales]  
**Awarding entity:** Dirección General de Agricultura, Ganadería y Alimentación. Consejería de Medio Ambiente, Ordenación del Territorio y Sostenibilidad. Comunidad de Madrid  
**Start date:** 03/11/2021
- 3 Name of the studies:** Animal Experimentation Formal Training: Assuming responsibility for on-site supervision of animal welfare and animal care [Capacitación Experimentación Animal: Asunción de la responsabilidad de la supervisión "in situ" del bienestar y cuidado de los animales]  
**Awarding entity:** Dirección General de Agricultura, Ganadería y Alimentación. Consejería de Medio Ambiente, Ordenación del Territorio y Sostenibilidad. Comunidad de Madrid  
**Start date:** 03/11/2021
- 4 Name of the studies:** Animal Experimentation Formal Training: Carrying out procedures [Capacitación Experimentación Animal: Realización de Procedimientos]  
**Awarding entity:** Dirección General de Agricultura, Ganadería y Alimentación. Consejería de Medio Ambiente, Ordenación del Territorio y Sostenibilidad. Comunidad de Madrid  
**Start date:** 03/11/2021
- 5 Name of the studies:** Animal Experimentation Formal Training: Euthanasia of animals [Capacitación Experimentación Animal: Eutanasia de Animales]  
**Awarding entity:** Dirección General de Agricultura, Ganadería y Alimentación. Consejería de Medio Ambiente, Ordenación del Territorio y Sostenibilidad. Comunidad de Madrid  
**Start date:** 03/11/2021
- 6 Name of the studies:** Animal Experimentation Formal Training: Project and procedure design [Capacitación Experimentación Animal: Diseño de Proyectos y Procedimientos]  
**Awarding entity:** Dirección General de Agricultura, Ganadería y Alimentación. Consejería de Medio Ambiente, Ordenación del Territorio y Sostenibilidad. Comunidad de Madrid  
**Start date:** 03/11/2021

## Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	C2	C2	B2	B1	B2

## Teaching experience

### General teaching experience

- 1 Name of the course:** Gestión y Conservación de Fauna Amenazada  
**University degree:** Masters Degree in Biology and Biodiversity Conservation [Master Universitario en Biología y Conservación de la Biodiversidad]  
**Start date:** 20/05/2015 **End date:** 30/05/2015  
**Entity:** Universidad de Salamanca **Type of entity:** University  
**Faculty, institute or centre:** Facultad de Biología





- 2 Name of the course:** Herpetología  
**University degree:** Masters Degree in Biology and Biodiversity Conservation [Master Universitario en Biología y Conservación de la Biodiversidad]  
**Start date:** 20/05/2015 **End date:** 30/05/2015  
**Entity:** Universidad de Salamanca **Type of entity:** University  
**Faculty, institute or centre:** Facultad de Biología
- 3 Name of the course:** Gestión y Conservación de Fauna Amenazada  
**University degree:** Masters Degree in Biology and Biodiversity Conservation [Master Universitario en Biología y Conservación de la Biodiversidad]  
**Start date:** 21/05/2014 **End date:** 30/05/2014  
**Entity:** Universidad de Salamanca **Type of entity:** University  
**Faculty, institute or centre:** Facultad de Biología
- 4 Name of the course:** Herpetología  
**University degree:** Masters Degree in Biology and Biodiversity Conservation [Master Universitario en Biología y Conservación de la Biodiversidad]  
**Start date:** 21/05/2014 **End date:** 30/05/2014  
**Entity:** Universidad de Salamanca **Type of entity:** University  
**Faculty, institute or centre:** Facultad de Biología

### Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** Ecophysiological responses to global change in reptiles [Respuestas ecofisiológicas al cambio global en reptiles]  
**Type of project:** Trabajo Fin de Máster  
**Co-director of thesis:** José Martín Rueda  
**Entity:** Universidad Autónoma de Madrid **Type of entity:** University  
**Student:** Ángel Trejo Moreno  
**Obtained qualification:** 8.7  
**Date of reading:** 22/09/2021
- 2 Project title:** Estimating heritability of melanin based colouration traits in Carpetan rock lizards: separating the phenotypic variance into genetic and non-genetic components  
**Type of project:** Trabajo Fin de Máster  
**Co-director of thesis:** José Martín Rueda  
**Entity:** Universidad Internacional Menéndez Pelayo **Type of entity:** University  
**Student:** Alejandro de la Concha Maroto  
**Obtained qualification:** 9.4  
**Date of reading:** 24/09/2020

### Other activities/achievements not included above

- 1 Description of the activity:** Head of training for adult educators in the Scouts of Castilla y León-MSF federation (2016-2019)  
**Identify key words:** Values education; Criteria and quality factors in education; Education and permanent learning; Education theory; Education philosophy; Education history; Motivation and learning; Cooperative learning; Game and education; Educative compared systems; Organization of educative institutions; Curriculum theory; Youth socio-educational care; Adult education; Education for citizenship; Education for human rights; Education for peace; Education for health; Education for gender equality; Sexual education; Intercultural education



**Organising entity:** Scouts de Castilla y León MSC  
**End date:** 31/03/2019

**Type of entity:** Associations and Groups

**2 Description of the activity:** Seminar on Herpetology for students of the 'Biology II' course of the 'Environmental Sciences' degree.

**City of activity:** Móstoles, Community of Madrid, Spain

**Organising entity:** Universidad Rey Juan Carlos

**Type of entity:** University

**End date:** 27/02/2019

**3 Description of the activity:** Teacher at the Training School of the National Scout Movement MSC, teaching in the continuing education course 'Training Assistant' (lessons: "Training Methods" and "Design and coordination of a monographic").

**Organising entity:** Movimiento Scout Católico

**Type of entity:** Associations and Groups

**End date:** 2018

**4 Description of the activity:** Scientific coordinator of the Science and Religion Forum 'Teilhard de Chardin'.

**City of activity:** Zamora, Castile and León, Spain

**Organising entity:** Asociación Edith Stein, Universidad de Salamanca  
**Type of entity:** Associations and Groups

**5 Description of the activity:** Teacher in the training of adult volunteer educators. Courses: 'Leader training', 'Assistant leader trainers', and 'Leader trainers'

**Identify key words:** Education and human development; Education and permanent learning; Education history; Education sociology; Educative psychology, learning and development; Contexts and general educative processes; Associations and organizations of the third sector and volunteering; Resources and technologies in education

**City of activity:** Castile and León, Spain

**Organising entity:** Scouts de Castilla y León MSC

**Type of entity:** Associations and Groups

## Scientific and technological experience

### Research and development groups/teams

**1 Name of the group:** GloCEE - Global Change Ecology and Evolution

**Type of collaboration:** Co-authorship of projects and their development

**Affiliation entity:** Universidad de Alcalá de Henares

**Type of entity:** University

**Start date:** 2021

**2 Name of the group:** Juli G. Pausas

**Type of collaboration:** Co-authorship of projects and their development

**Affiliation entity:** Centro de Investigaciones sobre Desertificación (CIDE)

**Type of entity:** University Centres and Structures and Associated Bodies

**Start date:** 2021

**3 Name of the group:** Lab Marzal

**Type of collaboration:** Co-authorship of publications

**Affiliation entity:** Universidad de Extremadura

**Type of entity:** University

**Start date:** 2021



- 4** **Name of the group:** Laboratório de Herpetologia  
**Name of principal investigator:** Miguel Trefaut Rodrigues  
**Type of collaboration:** Co-authorship of publications  
**City of group:** São Paulo, Brazil  
**Affiliation entity:** Universidade de São Paulo **Type of entity:** University  
**Start date:** 2018
- 5** **Name of the group:** Behavioural Ecology Group  
**Name of principal investigator:** János Török  
**Type of collaboration:** Co-authorship of publications  
**City of group:** Budapest, Hungary  
**Affiliation entity:** EÖTVÖS LORÁND UNIVERSITY **Type of entity:** University  
**Start date:** 2017
- 6** **Name of the group:** Eco-ethology Lab  
**Name of principal investigator:** Daniele Pelliteri Rosa  
**Type of collaboration:** Co-authorship of publications  
**City of group:** Pavia, Italy  
**Affiliation entity:** Università degli studi di Pavia **Type of entity:** University  
**Start date:** 2017
- 7** **Name of the group:** Freshwater and Herpetology Lab  
**Name of principal investigator:** Roberto Sacchi  
**Type of collaboration:** Co-authorship of publications  
**City of group:** Pavia, Italy  
**Affiliation entity:** Università degli studi di Pavia  
**Start date:** 2017
- 8** **Name of the group:** Marco Alberto Luca Zuffi's Lab  
**Type of collaboration:** Co-authorship of publications  
**Affiliation entity:** Museo di Storia Naturale dell'Università di Pisa **Type of entity:** Museo  
**Start date:** 2017
- 9** **Name of the group:** Grupo de Ecología y Comportamiento de Reptiles  
**Name of principal investigator:** José Martín  
**Type of collaboration:** Co-authorship of publications  
**City of group:** Madrid, Community of Madrid, Spain  
**Affiliation entity:** Museo Nacional de Ciencias Naturales **Type of entity:** State agency  
**Start date:** 2015
- 10** **Name of the group:** Valentín Pérez-Mellado's Lab  
**Name of principal investigator:** Valentín Pérez Mellado **Number of members in the group:** 7  
**Type of collaboration:** Co-authorship of projects and their development  
**City of group:** Salamanca, Castile and León, Spain  
**Affiliation entity:** Universidad de Salamanca **Type of entity:** University  
**Start date:** 2012

## Scientific or technological activities

### R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** The origin of a social signal: revisiting the case of the orange spot in the Collared lizard (*Psammodromus algirus*) and its absence in the eastern lineage.

**Type of project:** Basic research (including archaeological digs, etc) **Geographical area:** National

**Degree of contribution:** Coordinator of total project, network or consortium

**Name principal investigator (PI, Co-PI....):** Gonzalo Rodríguez Ruiz

**Nº of researchers:** 1

**Type of participation:** Principal investigator

**Name of the programme:** Convocatoria de Ayudas a la Investigación de la SEEEE Año 2022

**Start-End date:** 01/06/2022 - 31/12/2023 **Duration:** 1 year - 6 months

**Total amount:** 2.000 €

**Applicant's contribution:** Design and writing of the proposal. Project execution.
- 2** **Name of the project:** Underground sensory ecology in fossorial reptiles: Role of chemoreception and consequences for social organisation, reproductive success and health status.[Ecología sensorial subterránea en reptiles fosoriales: Función de la quimiorrecepción y consecuencias para la organización social, el éxito reproductor y el estado de salud.]

**Type of project:** Basic research (including archaeological digs, etc)

**Entity where project took place:** Museo Nacional **Type of entity:** State agency de Ciencias Naturales

**City of entity:** Madrid, Community of Madrid, Spain

**Name principal investigator (PI, Co-PI....):** José Martín Rueda

**Nº of researchers:** 4

**Funding entity or bodies:** Ministerio de Ciencia, Innovación y Universidades **Type of entity:** State agency

**Type of participation:** Team member

**Start-End date:** 01/01/2019 - 30/09/2022

**Total amount:** 203.280 €
- 3** **Name of the project:** Evolution and variability of chemical sex signals in reptiles: Implications for reproductive success and speciation. [Evolución y variabilidad de señales sexuales químicas en reptiles: Consecuencias para el éxito reproductor y la especiación.]

**Type of project:** Basic research (including archaeological digs, etc)

**Entity where project took place:** Museo Nacional **Type of entity:** State agency de Ciencias Naturales

**City of entity:** Madrid, Community of Madrid, Spain

**Name principal investigator (PI, Co-PI....):** Pilar López Martínez

**Funding entity or bodies:** Ministerio de Economía y Competitividad

**Type of participation:** Team member

**Start-End date:** 01/01/2014 - 30/06/2019

**Total amount:** 208.120 €

**Dedication regime:** Full time



## R&D non-competitive contracts, agreements or projects with public or private entities

**Name of the project:** Monitoring programme of the populations of the Balearic lizard, *Podarcis lilfordi* (Squamata, Lacertidae) in Menorca

**Degree of contribution:** Researcher

**Name principal investigator (PI, Co-PI....):** Valentín Pérez Mellado

**Nº of researchers:** 4

**Funding entity or bodies:**

CONSELL INSULAR DE MENORCA

**Start date:** 07/04/2015

**Duration:** 9 months

**Total amount:** 4.899 €

## Scientific and technological activities

### Scientific production

#### Publications, scientific and technical documents

- 1** José Martín; Isabel Barja; Gonzalo Rodríguez-Ruiz; Pablo Recio; José Javier Cuervo. Hidden but Potentially Stressed: A Non-Invasive Technique to Quantify Fecal Glucocorticoid Levels in a Fossorial Amphisbaenian Reptile. *Animals*. 13 - 109, MDPI, 27/12/2022.  
**DOI:** 10.3390/ani13010109  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 3 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Total no. authors:** 5 **Corresponding author:** No
- 2** Pablo Recio; Gonzalo Rodríguez-Ruiz; Pilar López; Jose Martín. Size-related changes and chemical basis of melanin-based body coloration in the amphisbaenian *Trogonophis wiegmanni*. *Amphibia-Reptilia*. pp. 1 - 9. Brill, 12/10/2022.  
**DOI:** 10.1163/15685381-bja10109  
**Type of production:** Scientific paper **Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Total no. authors:** 4 **Corresponding author:** No
- 3** José Martín; Jesús Ortega; Roberto García-Roa; Gonzalo Rodríguez-Ruiz; Ana Pérez-Cebranos; Valentín Pérez-Mellado. Coping with drought? Effects of extended drought conditions on soil invertebrate prey and diet selection by a fossorial amphisbaenian reptile. *Current Zoology*. pp. zoac056. Oxford Academic, 22/07/2022.  
**DOI:** 10.1093/cz/zoac056  
**Type of production:** Scientific paper **Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No
- 4** José Martín; Isabel Barja; Gonzalo Rodríguez Ruiz; Pablo Recio; Luis Ventura García. Soil pollution by heavy metals correlates with levels of faecal glucocorticoid metabolites of a fossorial amphisbaenian reptile. *Conservation Physiology*. 9 - 1, pp. coab085. 16/11/2021.  
**DOI:** 10.1093/conphys/coab085



**Type of production:** Scientific paper  
**Position of signature:** 3  
**Total no. authors:** 5

**Format:** Journal

**Corresponding author:** No

- 5** Gonzalo Rodríguez Ruiz; Pablo Recio; Pilar López; José Martín. Foraging decisions of rock lizards may be dependent both on current rival assessment and dear enemy recognition. *Behavioural Processes*. 192, pp. 104494 - 6. Elsevier, 01/11/2021.

**DOI:** 10.1016/j.beproc.2021.104494

**Type of production:** Scientific paper  
**Position of signature:** 1

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** Yes

**Total no. authors:** 4

- 6** Gonzalo Rodríguez Ruiz; Jesús Ortega; Pilar López; Alfredo Salvador; José Martín. Improved nutritional status may promote an "asset protection" reproductive strategy in male rock lizards. *Behavioral Ecology*. 32 - 6, pp. 1276 - 1284. 20/08/2021.

**DOI:** <https://doi.org/10.1093/beheco/arab094>

**Type of production:** Scientific paper  
**Position of signature:** 1

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Total no. authors:** 5

- 7** José Martín; Pablo Recio; Gonzalo Rodríguez Ruiz; Isabel Barja; Eduardo Gutiérrez; Luis Ventura García. Relationships between soil pollution by heavy metals and melanin-dependent coloration of a fossorial amphisbaenian reptile. *Integrative Zoology*. 00 - 00, pp. 1 - 12. 28/05/2021.

**DOI:** 10.1111/1749-4877.12562

**Type of production:** Scientific paper  
**Position of signature:** 3

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Total no. authors:** 6

- 8** José Martín; Jesús Ortega; Roberto García Roa; Octavio Jiménez Robles; Gonzalo Rodríguez Ruiz; Pablo Recio; José Javier Cuervo. Going underground: short- and long-term movements may reveal the fossorial spatial ecology of an amphisbaenian. *Movement Ecology*. 9 - 14, BCM Springer Nature, 23/03/2021.

**DOI:** <https://doi.org/10.1186/s40462-021-00253-x>

**Type of production:** Scientific paper  
**Position of signature:** 5

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Total no. authors:** 7

**Source of citations:** SCOPUS

**Citations:** 2

- 9** Pablo Recio; Gonzalo Rodríguez Ruiz; Pilar López; José Martín. Prey quantity discrimination and social experience affect foraging decisions of rock lizards. *Behavioral Ecology and Sociobiology*. 75 - 33, Springer, 20/01/2021.

**DOI:** <https://doi.org/10.1007/s00265-021-02979-5>

**Type of production:** Scientific paper  
**Position of signature:** 2

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Total no. authors:** 4

**Source of citations:** SCOPUS

**Citations:** 2

- 10** Pablo Recio; Gonzalo Rodríguez Ruiz; José Martín. Effects of sensory mode in prey discrimination and predatory behaviour of rock lizards. *Amphibia-Reptilia*. 42 - 1, pp. 125 - 132. Brill, 05/10/2020.  
**DOI:** <https://doi.org/10.1163/15685381-bja10030>  
**Type of production:** Scientific paper  
**Position of signature:** 2  
**Total no. authors:** 3  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Citations:** 2
- 11** Gonzalo Rodríguez Ruiz; Jesús Ortega; José Javier Cuervo; Alfredo Salvador; Pilar López; José Martín. Male rock lizards may compensate reproductive costs of an immune challenge affecting sexual signals. *Behavioral Ecology*. 31 - 4, pp. 1017 - 1030. Oxford, 20/05/2020.  
**DOI:** <https://doi.org/10.1093/beheco/araa047>  
**Type of production:** Scientific paper  
**Position of signature:** 1  
**Total no. authors:** 6  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Corresponding author:** No  
**Citations:** 1
- 12** Marco Mangiacotti; José Martín; Pilar López; Claudio V. Reyes Olivares; Gonzalo Rodríguez Ruiz; Alan J. Coladonato; Stefano Scali; Marco A. L. Zuffi; Roberto Sacchi. Proteins from femoral gland secretions of male rock lizards *Iberolacerta cyreni* allow self—but not individual—recognition of unfamiliar males. *Behavioral Ecology and Sociobiology*. 74 - 68, Springer, 18/05/2020.  
**DOI:** <https://doi.org/10.1007/s00265-020-02847-8>  
**Type of production:** Scientific paper  
**Position of signature:** 5  
**Total no. authors:** 9  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Corresponding author:** No  
**Citations:** 5
- 13** Gonzalo Rodríguez Ruiz; Pilar López; José Martín. Dietary vitamin D in female rock lizards induces condition-transfer effects in their offspring. *Behavioral Ecology*. 31 - 3, pp. 633 - 640. Oxford, 14/02/2020.  
**DOI:** <https://doi.org/10.1093/beheco/araa008>  
**Type of production:** Scientific paper  
**Position of signature:** 1  
**Total no. authors:** 3  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Corresponding author:** Yes  
**Citations:** 1
- 14** Pablo Recio; Gonzalo Rodríguez Ruiz; Jesús Ortega; José Martín. PIT-Tags as a technique for marking fossorial reptiles: insights from a long-term field study of the amphisbaenian *Trogonophis wiegmanni*. *Acta Herpetologica*. 14 - 2, pp. 101 - 107. Firenze University Press, 27/12/2019.  
**DOI:** [https://doi.org/10.13128/a\\_h-7747](https://doi.org/10.13128/a_h-7747)  
**Type of production:** Scientific paper  
**Position of signature:** 2  
**Total no. authors:** 4  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Citations:** 4
- 15** Gergely Horváth; Gonzalo Rodríguez Ruiz; José Martín; Pilar López; Gabor Herczeg. Maternal diet affects juvenile Carpetan rock lizard performance and personality. *Ecology and Evolution*. 9 - 24, pp. 14476 - 14488. Wiley, 09/12/2019.  
**DOI:** <https://doi.org/10.1002/ece3.5882>

**Type of production:** Scientific paper  
**Source of citations:** SCOPUS

**Format:** Journal  
**Citations:** 4

- 16** Carolina Nisa Ramiro; Gonzalo Rodríguez Ruiz; Pilar López; Pedro Ismael da Silva Junior; Miguel Trefaut Rodrigues; José Martín. Chemosensory discrimination of male age by female *Psammodromus algirus* lizards based on femoral secretions and feces. *Ethology*. 2019 - 00, pp. 1 - 8. 15/08/2019.

**DOI:** <https://doi.org/10.1111/eth.12934>

**Type of production:** Scientific paper  
**Position of signature:** 2

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 6

**Source of citations:** SCOPUS

**Citations:** 4

- 17** Gonzalo Rodríguez Ruiz; Pilar López; José Martín. Possible reproductive benefits to female Carpetan rock lizards of pre-sensory bias towards chemical signals. *Biological Journal of the Linnean Society*,. 127 - 4, pp. 787 - 799. The Linnean Society of London, 14/05/2019.

**DOI:** <https://doi.org/10.1093/biolinnean/blz056>

**Type of production:** Scientific paper  
**Position of signature:** 1

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 3

**Source of citations:** SCOPUS

**Corresponding author:** Yes

**Citations:** 2

- 18** Pablo Recio; Gonzalo Rodríguez Ruiz; Fátima Ruiz; José Martín. Juvenil de *Iberolacerta cyreni* parcialmente consumido por *Ocypus olens* (Coleoptera: Staphylinidae). *Boletín de la Asociación Herpetológica Española*. 29 - 2, pp. 15 - 18. Asociación Herpetológica Española, 18/12/2018. ISSN 1130-6939

**Type of production:** Scientific paper  
**Position of signature:** 2

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 4

- 19** Gonzalo Rodríguez Ruiz. Un tinder para lagartijas. *Naturalmente*. 20, pp. 5 - 9. Museo Nacional de Ciencias Naturales, CSIC, 01/12/2018.

**Type of production:** Popular science article  
**Position of signature:** 1

**Format:** Journal

**Degree of contribution:** Author or co-author of educational publication

**Total no. authors:** 1

**Corresponding author:** Yes

## Works submitted to national or international conferences

- 1** **Title of the work:** Behavioural responses to physiological stress in the amphisbaenian *Blanus rufus*

**Name of the conference:** XVI Congresso Luso-Espanhol de Herpetologia

**Type of event:** Conference

**Geographical area:** Ibérico (Hispano-Luso)

**Type of participation:** 'Participatory - poster

**Reasons for participation:** Review before acceptance

**Corresponding author:** No

**City of event:** Lisboa, Portugal

**Date of event:** 06/09/2021

**End date:** 17/09/2021

**Organising entity:** Associação Portuguesa de Herpetologia





Pablo Recio; Pilar López; José Javier Cuervo; Marco Sannolo; Gonzalo Rodríguez Ruiz; Isabel Barja; José Martín.

- 2** **Title of the work:** Ecotourism affects the physiological stress response of Carpetan Rock lizards  
**Name of the conference:** XX European Congress of Herpetology  
**Type of event:** Conference  
**Type of participation:** 'Participatory - poster  
**Corresponding author:** Yes  
**City of event:** Milán, Italy  
**Date of event:** 02/09/2019  
**End date:** 06/09/2019  
**Organising entity:** Societas Europaea Herpetologica  
Gonzalo Rodríguez Ruiz; María Mateo Gaitán; Alicia Uceda Heras; Isabel Barja; José Martín.
- 3** **Title of the work:** Effects of experience and sensory mode on predatory behavior of Iberolacerta cyreni lizards  
**Name of the conference:** XX European Congress of Herpetology  
**Type of event:** Conference  
**Type of participation:** 'Participatory - poster  
**City of event:** Milán, Italy  
**Date of event:** 02/09/2019  
**End date:** 06/09/2019  
**Organising entity:** Societas Europaea Herpetologica  
Pablo Recio; Gonzalo Rodríguez Ruiz; José Martín.
- 4** **Title of the work:** Genetic and environmental factors affecting melanin based coloration in the Amphisbaenian Trogonophis wiegmanni  
**Name of the conference:** XX European Congress of Herpetology  
**Type of event:** Conference  
**Type of participation:** 'Participatory - poster  
**City of event:** Milán, Italy  
**Date of event:** 02/09/2019  
**End date:** 06/09/2019  
**Organising entity:** Societas Europaea Herpetologica  
Pablo Recio; Gonzalo Rodríguez Ruiz; Luis V. García; José Martín.
- 5** **Title of the work:** Vitamin D dietary availability in gravid female rock lizard induces anticipatory maternal effects in the offspring  
**Name of the conference:** XV Congreso Luso-Español de Herpetología  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**Corresponding author:** Yes  
**City of event:** Salamanca, Castile and León, Spain  
**Date of event:** 05/09/2018  
**End date:** 09/09/2018  
**Organising entity:** Asociación Herpetológica Española  
Gonzalo Rodríguez Ruiz; Pilar López; José Martín.
- Geographical area:** European Union  
**Reasons for participation:** Open access  
**Type of entity:** Associations and Groups

- 6** **Title of the work:** Costes de las señales sexuales químicas de los machos de lagartija carpetana: consecuencias para el éxito reproductor  
**Name of the conference:** International Congress of the Spanish Society of Ethology and Evolutionary Ecology  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster **Reasons for participation:** Open access  
**Corresponding author:** Yes  
**City of event:** Mieres, Principality of Asturias, Spain  
**Date of event:** 04/09/2018  
**End date:** 08/09/2018  
**Organising entity:** Sociedad Española de Etología y Ecología Evolutiva  
Gonzalo Rodríguez Ruiz; Jesús Ortega; José Javier Cuervo; Alfredo Salvador; Pilar López; José Martín.
- 7** **Title of the work:** Relación entre atractivo de las señales sexuales químicas y éxito reproductor en la lagartija carpetana: ¿Son los machos que mejores señales producen los que más se reproducen?  
**Name of the conference:** International Congress of the Spanish Society of Ethology and Evolutionary Ecology  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - oral communication **Reasons for participation:** Open access  
**Corresponding author:** Yes  
**City of event:** Mieres, Principality of Asturias, Spain  
**Date of event:** 04/09/2018  
**End date:** 08/09/2018  
**Organising entity:** Sociedad Española de Etología y Ecología Evolutiva  
Gonzalo Rodríguez Ruiz; Jesús Ortega; Alfredo Salvador; Pilar López; José Martín.
- 8** **Title of the work:** The cost of producing sexual chemical signals by male Carpetan rock lizards: consequences for reproductive success  
**Name of the conference:** European Conference on Behavioural Biology  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** Participatory - invited/keynote **Reasons for participation:** Upon invitation talk  
**City of event:** Liverpool, United Kingdom  
**Date of event:** 09/08/2018  
**End date:** 12/08/2018  
**Organising entity:** ECBB  
Gonzalo Rodríguez Ruiz; Jesús Ortega; José Javier Cuervo; Alfredo Salvador; Pilar López; José Martín.
- 9** **Title of the work:** ¿Existen sesgos pre-sensoriales en la evolución del comportamiento de elección de pareja en la lagartija carpetana?  
**Name of the conference:** VI Congreso de la Sociedad Española de Biología Evolutiva  
**Type of event:** Conference **Geographical area:** National  
**Type of participation:** 'Participatory - poster **Reasons for participation:** Open access  
**Corresponding author:** Yes  
**City of event:** Palma de Mallorca, Balearic Islands, Spain  
**Date of event:** 17/01/2018  
**End date:** 19/01/2018  
**Organising entity:** Sociedad Española de Biología Evolutiva  
**With external admission assessment committee:** Yes  
Gonzalo Rodríguez Ruiz; Jesús Ortega; José Javier Cuervo; Alfredo Salvador; Pilar López; José Martín.



## Works submitted to national or international seminars, workshops and/or courses

- 1** **Title of the work:** Are the males that produce the best chemical signals the ones that reproduce the most? An experiment on the Carpetan Lizard [¿Son los machos que mejores señales químicas producen los que más se reproducen? Un experimento en la Lagartija Carpetana]  
**Name of the event:** III JORNADAS CIENTÍFICAS DEL MUSEO NACIONAL DE CIENCIAS NATURALES  
**Type of event:** Workshop  
**Corresponding author:** Yes **Reasons for participation:** Speaker  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 25/02/2019  
**End date:** 26/02/2019  
**Organising entity:** Museo Nacional de Ciencias Naturales **Type of entity:** State agency  
Gonzalo Rodríguez Ruiz; Jesús Ortega; Alfredo Salvador; Pilar López; José Martín.
- 2** **Title of the work:** Lizard stories: almost three decades of studies in the western Sierra de Guadarrama. [Historias de lagartos: casi tres décadas de estudios en el oeste de la Sierra de Guadarrama]  
**Name of the event:** Ciencia Serrana: Jornadas Divulgativas sobre la Investigación en la Estación Biológica El Ventorrillo  
**Type of event:** Workshop  
**Corresponding author:** Yes  
**Geographical area:** Regional  
**City of event:** Cercedilla, Community of Madrid, Spain  
**Date of event:** 22/12/2018  
**End date:** 22/12/2018  
**Organising entity:** Estación Biológica El Ventorrillo, MNCN, CSIC  
**With external admission assessment committee:** No  
Gonzalo Rodríguez Ruiz.
- 3** **Title of the work:** Are there pre-sensory biases in the evolution of mate choice behaviour in the carpetan lizard? [¿Existen sesgos pre-sensoriales en la evolución del comportamiento de elección de pareja en la lagartija carpetana?]  
**Name of the event:** II JORNADAS CIENTÍFICAS MUSEO NACIONAL DE CIENCIAS NATURALES (MNCN-CSIC)  
**Type of event:** Workshop  
**Reasons for participation:** Speaker  
**Geographical area:** Local  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 19/02/2018  
**End date:** 20/02/2018  
**Organising entity:** Museo Nacional de Ciencias Naturales **Type of entity:** State agency  
**With external admission assessment committee:** No  
Gonzalo Rodríguez Ruiz; Pilar López; José Martín.



## Other achievements

### Obtained grants and scholarships

**Name of the grant:** Grants for Predoctoral Contracts for the Training of Doctors 2015 [Ayudas para Contratos Predoctorales para la Formación de Doctores 2015]

**Aims:** Pre-doctoral

**Awarding entity:** Ministerio de Economía, Industria y **Type of entity:** Gobierno Competitividad

**Conferral date:** 12/11/2015

**Duration:** 4 years

**End date:** 30/11/2019

**Entity where activity was carried out:** Consejo Superior de Investigaciones Científicas

**Faculty, institute or centre:** Museo Nacional de Ciencias Naturales

### Scientific societies and professional associations

- 1** **Name of the society:** Spanish Herpetological Association [Asociación Herpetológica Española]  
**City affiliation entity:** Spain  
**Start date:** 2017
- 2** **Name of the society:** Spanish Society of Ethology and Evolutionary Ecology [Sociedad Española de Etología y Ecología Evolutiva]  
**City affiliation entity:** Spain  
**Start date:** 2017