

## **JOAN GARCIA-PORTA, PH. D.**

Department of Biodiversity, Ecology and Evolution  
Universidad Complutense de Madrid (Spain)

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### **CURRENT POSITION**

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*April 2023 – Present.* Assistant professor and researcher (tenure track) at the Complutense University of Madrid, funded by the program “Atracción de Talento, modalidad 1” from the Comunidad de Madrid (Spain).

### **ACADEMIC EDUCATION**

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October 2014 – **Ph.D. Biology (Biodiversity)** - *University of Barcelona* (Spain)

PhD Thesis: “*Evolution and diversification of the geckos of the Arabian Peninsula and Socotra Archipelago, compared to other mainland-island systems.*”

Advisor: Dr. Salvador Carranza.

European mention, Cum Laude, “Best PhD dissertation of the year” award.

September 2010 – **M.Sc. Biology** - *University of Barcelona* (Spain)

MSc Thesis: “*Molecular phylogenetics and historical biogeography of the European common toad (*Bufo bufo* species complex).*”

Advisor: Dr. Salvador Carranza.

September 2007 – **B.S. Biology** – *Autonomous University of Barcelona* (Spain)

### **EMPLOYMENT HISTORY**

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*April 2022 – March 2023.* Postdoctoral research associate at University of Barcelona and the Institute of Research on Biodiversity. Funded by the “Beatriu de Pinós” program, co-funded by the European Union (COFUND program, Horizon 2020) and the Catalan Government.

*November 2018 – December 2021.* Postdoctoral Research Associate at the Washington University in St Louis (USA). Funded by the Washington University in St. Louis and the National Science Foundation.

*September 2016 – August 2018.* Postdoctoral Fellow at CREAF (Ecological and Forestry Applications Research Centre). Funded by the Juan de la Cierva Program (Spanish Government).

*March 2016 – July 2016.* Postdoctoral Fellow at the University of New South Wales (Sydney, Australia). Funded by the Endeavour Research Program (Australian Government).

*November 2014 – December 2015.* Postdoctoral Research Associate at the Institute of Evolutionary Biology of Barcelona (UPF-CSIC). Funded by project CGL2012-36970 (Ministerio de Ciencia e Innovación, Spanish Government).

*June 2009 – April 2014.* Ph.D. student at the Institute of Evolutionary Biology of Barcelona (UPF-CSIC). Funded by the JAE program (Spanish Research Council).

*January 2008 – April 2009.* Contracted researcher at the Amphibian Evolution Lab - Vrije Universiteit Brussel (VUB). Brussels, Belgium. Funded by the project “Tracing Antimicrobial peptides and Pheromones in the Amphibian Skin” (ERC-2007-StG, European Union).

## **GRANTS**

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2023 – “Atracción de Talento” fellowship, funded by the Government of the Autonomous Community of Madrid (Spain) (337,227 €).

2021 – “Beatriu de Pinós” fellowship, co-funded by the European Union (Horizon 2020 program) and the Catalan Government (Spain) (132,300 €).

2021 – LEC seed grant awarded by the Living Earth Collaborative & Washington University in St Louis (US\$29,883).

2016 – SYNTHESYS grant for research visit at the Natural History History Museum (London, UK) – Awarded by the European Research Council (5,342 €).

2016 – SYNTHESYS grant for research visit at the Museum National d'Histoire Naturelle (Paris, France) – Awarded by the European Research Council (5,192 €).

2016 – FMNH Visiting Scholarship for research visit at the Field Museum of Natural History (Chicago, USA) – Awarded by the Field Museum of Natural History (US\$1,800).

2016 – Juan de la Cierva Fellowship – Awarded by the Spanish Government (50,000 €).

2015 – Endeavour Research Fellowship – Awarded by the Australian Government (AUD\$24,500).

2014 – DECRA Science Writing Fellowship – Awarded by the University of New South Wales (Sydney, Australia) (AUD\$5,000).

2012 – Short-Term Predoctoral Research Grant (3 months) at the University of Pavia, Italy (5,500 €), granted by Spanish Research Council).

2011 – Short-Term Predoctoral Research Grant (3 months) at the University of New South Wales, Australia (5,500 €, granted by the Spanish Research Council).

2010 – Short-Term Predoctoral Research Grant (3 months) at the Sultan Qaboos University, Sultanate of Oman (5,500 €, granted by the Spanish Research Council).

2009 – Predoctoral Fellowship JAE Predoc (granted by the Spanish Research Council) (57,600 €).

## **AWARDS**

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2016 – Award to the “Best PhD dissertation in the academic year 2014/15” – Awarded by the University of Barcelona (Spain).

2014 – Best Poster Award in the congress: Modern Phylogenetic Comparative Methods and their Application in Evolutionary Biology (MPCM 2014).

2013 – Best Presentation Award in the II Iberian Congress of Biological Systematics (CISA).

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## **QUALITY INDICATORS OF RESEARCH**

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Total number of publications/last 5 years = 43 / 19

Total number of SCI publications/last 5 years = 34 / 19

Number of publications in Q1/last 5 years = 31 (91%) / 19 (100%)

Citations per year (last 5 years) = 138 (Google Scholar), 102 (Scopus)

H index = 19 (Google Scholar), 17 (Scopus)

Total funding = 651,617.4 €

Projects as PI = 4

Projects as working group = 10

Master students supervised = 5

Honors and internships supervised = 6

Awards = 3

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## **PEER-REVIEWED PUBLICATIONS (SCI JOURNALS)**

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1. Baldwin J., **Garcia-Porta J.\*** & Botero C. 2023. Complementarity in Allen's and Bergmann's rules among birds. *Nature Communications.* 14: 4240.  
\* Shared 1st authorship.
2. Sol D., Olkowicz S., Sayol F., Kocourek M., Zhang Y., Marhounov L., Osadnik C., Corssmit E., **Garcia-Porta J.**, Martin T. E., Lefebvre L. & Němec P. 2022. Neuron numbers link innovativeness with both absolute and relative brain size. *Nature Ecology & Evolution.* 6: 1381–1389.
3. **Garcia-Porta J.**, Sol D., Pennell M., Sayol F., Kaliontzopoulou A. & Botero C. 2022. Niche expansion and adaptive divergence in the global radiation of crows and ravens. *Nature Communications.* 13:2086.
4. Sol D., **Garcia-Porta J\***., González-Lagos C., Pigot A.L., Trisos C. & Tobias J. A. 2022. A test of Darwin's naturalization conundrum in birds reveals enhanced invasion success in presence of close relatives. *Ecology Letters.* 25 (3): 661-672.  
\* = Shared 1st authorship and corresponding.
5. Baldwin J., **Garcia-Porta J.** & Botero C. 2022. Phenotypic responses to climate change are significantly dampened in big-brained birds. *Ecology Letters.* 25(4):939-947.
6. Wollenberg-Valero K. C., **Garcia-Porta J.**, Irisarri I., Feugere L., Bates A., Kirchhof S., Glavaš O. J., Pafilis P., Samuel S. F., Müller J., Vences M., Turner A. P., Beltran-Alvarez P. & Storey K. 2021. Abiotic environmental adaptation in vertebrates is characterized by functional genomic constraint. *Journal of Animal Ecology.* 91(6): 1163-1179.
7. Scheibel J., **Garcia-Porta J.**, Quezada G. & Ibáñez A. 2022. Phylogeography and Prevalence of Haemoparasites (Apicomplexa: Eucoccidiorida) in Galápagos Marine Iguanas, *Amblyrhynchus cristatus* (Reptilia: Iguanidae). *Animals.* 12(9): 1142.
8. Lapiedra O., Sayol F., **Garcia-Porta J.** & Sol D. 2021. Niche shifts after island colonization spurred adaptive diversification and speciation in a cosmopolitan bird clade. *Proceedings of the Royal Society B.*, 288: 1-8.
9. Fernández-Martínez M., Preece C., Corbera J., Cano O., **Garcia-Porta J.**, Bogdziewicz M., Sardans J., Janssens I., Sabater F. & Peñuelas J. 2021. Nutrients control reproductive traits of hygrophytic bryophytes. *Freshwater Biology*, 66 (7): 1436-144.

10. Fernández-Martínez M., Preece C., Corbera J., Cano O., **Garcia-Porta J.**, Sardans J., Janssens I., Sabater F. & Peñuelas J. 2021. Bryophyte C:N:P stoichiometry, biogeochemical niches, and elementome plasticity driven by environment and coexistence. *Ecology Letters*, 24 (7): 1375-1386.
11. Rodríguez A., Rodríguez B., Montelongo T., **Garcia-Porta J.**, Pipa T., Carty M., Danielsen J., Nunes J., Silva C., Geraldès P., Medina F. M. & Illera J. C. 2020. Cryptic differentiation in the Manx Shearwater hinders the identification of a new endemic subspecies. *Journal of Avian Biology*, 51(11): 1-16.
12. Sayol F., Collado M. A., **Garcia-Porta J.**, Seid M. A., Gibbs J., Agorreta A., San Mauro D., Raemakers I., Sol D. & Bartomeus I. 2020. Feeding specialization and longer generation time are associated with relatively larger brains in bees. *Proceedings of the Royal Society B.*, 287(1935): 1-10.
13. Prieto-Marquez A., **Garcia-Porta J.**, Shantanu J., Norell M. & Makovicky P. 2020. Modularity and heterochrony in the evolution of the ceratopsian dinosaur frill. *Ecology and Evolution*, 10:6288–6309.
14. Ord T., **Garcia-Porta J.**, Querejeta M. & Collar D. 2020. Gliding dragons and flying squirrels: diversifying versus stabilizing selection on morphology following the evolution of an innovation. *The American Naturalist*, 195 (2): 1-66.
15. **Garcia-Porta J.** et al. 2019. Environmental temperatures shape thermal physiology as well as diversification and genome-wide substitution rates in lizards. *Nature Communications*, 10: 1-12.
16. Fernández-Martínez M., Berloso F., Corbera J., **Garcia-Porta J.**, Sayol F., Preece C. & Sabater F. 2019. Towards a moss sclerophyll continuum: evolutionary history, water chemistry and climate control traits of hygrophytic mosses. *Functional Ecology*, 33 (12) 2273-2289.
17. Tamar K., Simó-Riudalbas M., **Garcia-Porta J.**, Santos X., Llorente G., Vasconcelos R. & Carranza S. 2019. An integrative study of island diversification: insights from the endemic *Haemodracon* geckos of the Socotra Archipelago. *Molecular Phylogenetics and Evolution*, 133: 166-175.
18. Casanovas-Vilar I., **Garcia-Porta J.**, Fortuny J., Sanisidro O., Prieto J., Querejeta M., Llácer S., Robles J. M., Bernardini F. & Alba D. 2018. Oldest skeleton of a fossil flying squirrel casts new light on the origin of the group. *eLife*, 7: 1-48.
19. Carranza S., Xipell M., Tarroso P., Gardner A., Arnold E.N., Robinson M., Simó-Riudalbas M., Vasconcelos R., de Pous P., Amat F., Šmíd J., Sindaco R., Metallinou M., Els J., Gómez-Díaz E., Machado L., Donaire D., Martínez G., **Garcia-Porta J.**, et al. 2018. Diversity, distribution, and conservation of the terrestrial reptiles of Oman (Sauropsida, Squamata). *PLoS ONE*, 13(2): 1-31.
20. **Garcia-Porta J.**, Simó-Riudalbas M., Robinson M. & Carranza S. 2017. Diversification in arid mountains: biogeography and cryptic diversity of the semaphore gecko *Pristurus r. rupestris* in Arabia. *Journal of Biogeography*, 44: 1694–1704.
21. Wollenberg-Valero K., **Garcia-Porta J.**, Rodriguez A., Arias M., Shah A., Randrianaaina R. D., Brown J., Glaw F., Amat F., Künzel S., Metzler D., Isokpehi R. D. & Vences M. 2017. Transcriptomic and macroevolutionary evidence for phenotypic uncoupling between frog life history phases. *Nature Communications*, 8:1-9.

22. Rivas-Ubach A., Sardans J., Hódar, J., **García-Porta J.**, Guenther A., Pasa-Tolic L, Oravec M., Urban O. & Peñuelas, J. 2017. Close and distant: contrasting the metabolism of two closely related subspecies of Scots pine under the effects of summer drought and folivory. *Ecology and Evolution*, 7: 8976–8988.
23. **García-Porta J.**, Smid J., Sol D., Fasola M. & Carranza S. 2016. Testing the island effect on morphological divergence: insights from the *Hemidactylus* geckos of the Socotra Archipelago. *Scientific Reports*, 6:1-12.
24. **García-Porta J.**, Morales H., Gómez-Díaz E., Sindaco R. & Carranza S. 2016. Patterns of diversification in islands: a comparative study across three gecko genera in the Socotra Archipelago. *Molecular Phylogenetics and Evolution*, 98: 288-299.
25. Rivas-Ubach A., Sardans J., Hódar J. A., **García-Porta, J.**, Guenther A., Oravec M., Urban O. & Peñuelas J. 2016. Similar local but different systemic metabolomic responses of closely related pine subspecies to folivory by caterpillars of the processionary moth. *Plant Biology*, 18(3): 484-494.
26. Ord T., Klomp D. **García-Porta J.** & Hagman M. 2015. Repeated evolution of exaggerated dewlaps and other throat morphology in lizards: principal origins in signal efficacy not sexual selection. *Journal of Evolutionary Biology*, 28 (11): 1948–1964.
27. Bellati, A., Carranza S., **García-Porta J.**, Fasola M. & Sindaco R. 2015. Cryptic diversity within the *Anatololacerta* species complex (Squamata: Lacertidae) in the Anatolian Peninsula: evidence from a multi-locus approach. *Molecular Phylogenetics and Evolution*, 82: 219-233.
28. Badiane A., **García-Porta J.\***, Cervenka J., Kratochvíl L., Sindaco R., Robinson M. D., Morales H., Mazuch T., Price T., Amat F., Shobrak M. Y., Wilms T., Simó-Riudalbas M., Ahmadzadeh F., Papenfuss T. J., Cluchier A., Viglione J & Carranza S. 2014. Phylogenetic relationships of Semaphore geckos (Squamata: Sphaerodactylidae: *Pristurus*) with an assessment of the taxonomy of *Pristurus rupestris*. *Zootaxa*, 3835(1) :33-58.  
\* = Shared 1st authorship.
29. **García-Porta J.** & Ord T. 2013. Key innovations and island colonization as engines of evolutionary diversification: a comparative test with the Australasian diplodactyloid geckos. *Journal of Evolutionary Biology*, 26(12): 2662-80.
30. Beukema W., De Pous P., Donaire-Barroso D., Bogaerts S., **García-Porta J.**, Escoriza D, Arribas OJ, El Mouden EH & Carranza S. 2013. Review of the systematics, distribution, biogeography and natural history of Moroccan amphibians. *Zootaxa*, 3661 (1): 1-60.
31. Ord, T. & **García-Porta J.** 2012. Is social complexity required for the evolution of communicative complexity? Evidence weighed against alternative hypotheses in diverse taxonomic groups. *Philosophical Transactions of the Royal Society Series B*, 316: 1811-1828.
32. **García-Porta J.**, Litvinchuk S., Crochet PA, Romano A., Geniez P., Lo-Valvo M, Lymberakis P & Carranza S. 2012. Molecular phylogenetics and historical biogeography of the west-palearctic common toads (*Bufo bufo* species complex). *Molecular Phylogenetics and Evolution*, 63 (1): 113-130.

33. Richter-Boix A., Llorente G. A., Montori A. & **Garcia-Porta J.** 2007. Tadpole diet selection varies with the ecological context in predictable ways. *Basic and Applied Ecology*, 8: 464-474.
34. Bailon S., **Garcia-Porta J.** & Quintana-Cardona J. 2002. First record of viperid snakes (Reptilia, Serpentes) from the Balearic Islands (Spain): fossils from the Neogene, with description of a new species from the Pliocene. *Comptes Rendus de l'Académie des Sciences de Paris (paleoevolution)*, 1: 227-234.

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#### **PEER REVIEWED PUBLICATIONS (NON-SCI JOURNALS)**

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35. Barrio-Amorós C. & **Garcia-Porta J.** 2003. Herpetological Report: *Colostethus humilis*. *Herpetological Review*, 34 (4): 380.
36. **Garcia-Porta J.**, Quintana J. & Bailon S. 2002. First record de *Blanus sp* from the balear Neogene. *Revista Española de Herpetología*, 16:19-27.
37. Barrio C. L., **Garcia-Porta J.** & Filella-Subirà E. 2001. Données écologiques sur une population de *Testudo ibera* (Pallas 1814) dans le sud-ouest de la Turquie [Ecological data on a population of *Testudo ibera* (Pallas 1814) in the southwest of Turkey]. *Manouria*, 4 (10): 12-20.
38. **Garcia-Porta J.** & Casanovas-Vilar I. 2001. Noves localitats de *Amphisbaenia* fòssils i comentaris sobre el grup en el Miocè Peninsular [New locality in the North of the Iberian Peninsula with specimens of *Podarcis hispanica* (Steindachner, 1870) with green dorsal coloration]. *Butlletí de la Societat Catalana d'Herpetologia*, 15: 91-98.
39. Rivera X., **Garcia-Porta J.** & Bargalló F. 2001. Nueva localidad en el norte de la península Ibérica con ejemplares de *Podarcis hispanica* (Steindachner, 1870) de coloración dorsal verde [New introduced population of *Podarcis pityusensis* in the Iberian Peninsula]. *Butlletí de la Societat Catalana d'Herpetologia*, 15: 124-128.
40. **Garcia-Porta J.**, Bargalló F., Fernández M., Filella E. & Rivera X. 2001. Nueva Población introducida de *Podarcis pityusensis* en la península Ibérica [New introduced population of *Podarcis pityusensis* in the Iberian Peninsula]. *Boletín de la Asociación Herpetologica Española*, 12(2): 59-62.
41. Filella-Subirà E., Gàsser-Casanovas Z. **Garcia-Porta J.** & Ferrer-Ferrer J. A. 1999. Una puesta fósil de tortuga terrestre en el Pleistoceno de Formentera (Islas Pitiusas, archipiélago Balear). [A fossil nest of a tortoise in the Pleistocene of Formentera (Pitiusic islands, Balearic archipelago)]. *Treballs del Museu de Zoologia de Barcelona*, 8: 67-84.

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#### **BOOK CHAPTERS**

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\*\* = CORRESPONDING AUTHOR

42. San Mauro D., Agorreta A. & **Garcia-Porta J.** \*\* Origin, evolution, and diversification of extant amphibians. In: Moreno-Rueda G. & Comas M. (Eds.), *Evolutionary Ecology of Amphibians*. CRC press. *In press*
43. Bailon S., Quintana J. & **Garcia-Porta J.**, 2005. Primer registro fósil de las familias Gekkonidae (Lacertilia) y Colubridae (Serpentes) en el Plioceno de Punta Nati (Menorca, Islas Baleares) [First record of the families Gekkonidae (Lacertilia) and Colubridae (Serpentes) in the Pliocene of Punta Nati (Minorca, Balearic Islands)]. In: Alcover, J.A.,

Bover, P. (Eds.), *Proceedings of the International Symposium Insular Vertebrate Evolution: The Palaeontological Approach*, Monografies de la Societat d'Historia Natural de les Balears, vol. 12. Palma de Mallorca, Spain, pp. 27–32.

## **SELECTED CONFERENCE PRESENTATIONS**

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1. *Evolution Meeting 2022*. Cleveland June 24-28, 2022. Oral presentation.
2. *Society of Vertebrate Paleontology 2021 annual meeting 2021*. November 1-5, 2021. Poster presentation.
3. *Virtual Evolution Meeting 2021*. July 21-25, 2021. Oral presentation.
4. *British Ecological Society Annual Meeting 2018*. December 16-19, 2018, Birmingham (UK). Oral presentation.
5. *1st Paleontological Virtual Congress*. December 1-15, 2018, Valencia (Spain). Oral presentation.
6. *British Ecological Society Annual Meeting 2018*. December 16-19, 2018, Birmingham (UK). Oral presentation.
7. *5th International Paleontological Congress*. July 9-13, 2018, Paris (France). Oral presentation.
8. *Australasian Evolution Society Meeting*. December 4-6, 2017, Hobart (Australia). Oral presentation.
9. *3rd Meeting of the Spanish Network on Tropical Ecology (RedTrop)*. October 27-28, 2016, Barcelona (Spain). Oral presentation.
10. *Meeting of the Society of Vertebrate Paleontology*. October 26-29, 2016, Salt Lake City (USA). Oral presentation.
11. *8th World Congress of Herpetology*. August 15-21, 2016, Hangzhou (China). Oral presentation.
12. *III Iberian Congress on Biological Systematics*. December 17-18, 2015, Vitoria-Gasteiz (Spain). Oral presentation.
13. *14th annual general meeting of the FoS*. September 11-13, 2015, Varia (Portugal). Oral presentation.
14. *New Approaches to Analyse Phylogenetic Diversification, and their application to the Madagascar Model System*. November 18-19, 2014, Delmenhorst (Germany). Oral presentation.
15. *Modern Phylogenetic Comparative Methods and their Application in Evolutionary Biology*. November 11-15, 2014, Seville (Spain). Poster presentation (**Best poster award**).
16. *4th Meeting of the Spanish Society for Evolutionary Biology*. November 25-29, 2013, Barcelona (Spain). Oral presentation.
17. *II Iberian Congress on Animal Systematics*. September 25-27, 2013, Barcelona (Spain). Oral presentation (**Best oral communication award**).
18. *Advances in Ecological Speciation*. April 29-30, 2013, Vairao (Portugal). Poster presentation.
19. *XI Jornada de Biología Evolutiva*. July 11, 2012, Barcelona (Spain). Oral presentation.
20. *Frontiers in Biodiversity*. A phylogenetic perspective. October 1-2, 2010, Barcelona (Spain). Poster presentation.
21. *XI Jornades Herpetològiques Catalanes*. October 19-21, 2007, Barcelona (Spain). Oral presentation.

## **RESEARCH PROJECTS**

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### As principal investigator

*Citizen magpie: morphological, behavioral, and genomic responses to urban environments.*  
Entity where project will take place: Universidad Complutense de Madrid. PI: Joan Garcia-Porta.

Nº of researchers: 1. Funding entity: Comunidad de Madrid (Spain). Code: 2022-T1/AMB-24171. Start-End date: 2023 – 2028. Total amount: 200,000 €.

*Uncovering the genomic basis of adaptive convergence of brain size in birds.* Entity where project took place: University of Barcelona. PIs: Joan Garcia-Porta & Sara Guirao. Nº of researchers: 2. Funding entity: Catalan Research Council (AGAUR). Code: 1PR\_2022IRBio\_UB. Start-End date: 2022 – 2023. Total amount: 12,000 €.

*Origin and diversification of the flowering plants of the Gulf of Guinea archipelago.* Entity where project took place: University Missouri Botanical Garden. PIs: Patricia Barberá & Joan Garcia-Porta. Nº of researchers: 4. Funding entity: Living Earth Collaborative (Washington University in St Louis, USA) Code: LEC21134. Start-End date: 2021 – 2022. Total amount: US\$29,883

*Integrating ecomorphology and intelligence in the family Corvidae: are generalist species more prone to be brainy?* Entities where project took place: Natural History Museum (UK) and Muséum National d'Histoire Naturelle (France). PI: Joan Garcia-Porta. Synthesys grant, funded by the European Commission. Code: GB-TAF-6677 and FR-TAF-7024. Start-End date: 2017. Total amount: 10,534 €.

#### As working team and writing co-author

*Una aproximación multi-ómica a la evolución de las víboras del viejo mundo y sus arsenales tóxicos.* Entity where project took place: Institute of Evolutionary Biology. PI: Salvador Carranza. Nº of researchers: 11. Funding entity: Ministry of Science and Innovation (Spain). Code: PID2021-128901NB-I00. Start-End date: 2023 – 2025. Total amount: 275,000 €

*Comparative genomics in the insular radiation of Dysdera (Arachnida: Dysderidae).* Entity where project took place: University of Barcelona. Principal investigator: Julio Rozas. Nº of researchers: 4. Funding entity: Ministry of Science and Innovation (Spain). Code: PID2019-103947GB-C21. Start-End date: 2020 – 2023. Total amount: 222,640 €

*Life history variation and the non-random loss of biological diversity in human altered habitats.* Entity where project took place: CREAF. Principal investigator: Daniel Sol. Nº of researchers: 11. Funding entity: Ministry of Science and Innovation (Spain). Code: CGL2017-90033-P. Start-End date: 2018 – 2020. Total amount: 166,980 €

*Biodiversity and evolution in Mediterranean systems.* Entity where project took place: CREAF. Principal investigator: Maria Mayol. Nº of researchers: 14. Funding entity: Catalan Government. Code: 2017SGR1006. Start-End date: 2017 – 2019. Total amount: 20.000 €

*Arabian reptiles as a model to investigate how biodiversity is generated and maintained in arid areas.* Entity where project took place: Institute of Evolutionary Biology (CSIC-UPF). Name principal investigator: Salvador Carranza. Nº of researchers: 7. Funding entity: Ministry of Science and Innovation (Spain). Code: CGL2015-70390-P. Start-End date: 2016 – 2018. Total amount: 154.154 €

*Animal Biology and Evolution.* Entity where project took place: Institute of Evolutionary Biology (CSIC-UPF). Name principal investigator: Salvador Carranza. Nº of researchers: 16. Funding entity: Generalitat de Catalunya (Spain). Code: 2014SGR1532. Start-End date: 2014 – 2016. Total amount: 38.400 €

*Forgotten in the ocean: the reptiles of the Socotra Archipelago as a model for the study of island Biogeography, Evolution and Conservation.* Entity where project took place: Institute of Evolutionary Biology (CSIC-UPF). Principal investigator: Salvador Carranza. Nº of researchers: 7. Funding entity: Ministry of Science and Innovation (Spain). Code: CGL2012-36970. Start-End date: 2013 – 2015. Total amount: 176.670 €

*Living on the edge: origin and diversification of the reptile communities of the deserts of North Africa and Arabia.* Entity where project took place: Institute of Evolutionary Biology (CSIC-UPF). Principal investigator: Salvador Carranza. N° of researchers: 4. Funding entity: CSIC and Russian Academy of Sciences. Code: 2010RU0055. Start-End date: 2011 – 2012. Total amount: 20.500 €

*Living on the edge: origin and diversification of the reptile communities of the deserts of North Africa and Arabia.* Entity where project took place: Institute of Evolutionary Biology (CSIC-UPF). Principal investigator: Salvador Carranza. N° of researchers: 13. Funding entity: Ministry of Science and Innovation (Spain). Code: CGL2009-11663. Start-End date: 2010 – 2013. Total amount: 171.820 €

*Zoological Systematics and Evolution Research Group – ZOOSYSEVO.* Entity where project took place: Institute of Evolutionary Biology (CSIC-UPF). Principal investigator: Salvador Carranza. N° of researchers: 11. Funding entity: Generalitat de Catalunya (Spain). Code: 2009SGR1462. Start-End date: 2009 – 2013. Total amount: 50.960 €

## **TEACHING**

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### *Ethology*

Bachelor's Degree in Biology. Academic year 2023/2024  
Faculty of Biology, Universidad Complutense de Madrid, Spain

### *Zoology*

Bachelor's Degree in Biology. Academic year 2023/2024  
Faculty of Biology, Universidad Complutense de Madrid, Spain

### *Evolution*

Bachelor's Degree in Biology. Academic year 2022/2023  
Faculty of Biology, University of Barcelona, Spain

### *Population Genetics and Molecular Evolution*

Bachelor's Degree in Bioinformatics. Academic year 2022/2023  
Faculty of Biosciences, Pompeu Fabra University, Spain

### *Phylogeny and Phylogeography: Methods and Applications*

MSc in Biodiversity. Academic years 2012/13, 2013/14, 2014/15, 2016/17 and 2017/2018  
Faculty of Biology, University of Barcelona, Spain

### *Introduction to Comparative Methods*

MSc in Evolutionary Biology. Academic years 2014/15 and 2015/16 and 2016/17.  
Faculty of Biology, Universidad Complutense de Madrid, Spain

### *Advanced Methods in Ecology*

MSc in Terrestrial Ecology. Academic years 2017/18.  
Faculty of Biosciences, Autonomous University of Barcelona, Spain

## **ACADEMIC MENTORING**

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### *Master dissertations:*

2021 – *Morphological evolution of hindlimb elements in ornithopod dinosaurs.* Jesús F. Serrano Pérez. MSc in Paleontology, Autonomous University of Barcelona (Spain).

2016 – *Biogeography and evolution of the family Talpidae*. Clara Bernet. MSc in Biology, Universidad Complutense de Madrid (Spain).

2013 – *Systematics, evolution, and biogeography of the genus Pristurus (Squamata, Sphaerodactylidae)*. Arnaud Badiane. MSc in Biology, Université Pierre et Marie Curie (France).

2012 – *Intra-island diversification of the genus Haemodracon (Gekkota, Phyllodactylidae) in the Socotran Archipelago: a phylogenetic, ecological and morphometric approach*. Marc Simó. MSc in Biology, University of Barcelona (Spain).

2011 – *Phylogeography and evolution of the geckos of the genus Pristurus from the Socotran archipelago*. Hernan Morales. MSc in Biology, University of Groningen (Netherlands).

*Undergraduate internships and Honors dissertations:*

2023 – *A preliminary revision of the genus Orfilea*. Jorge Robles. Research Experiences for Undergraduates program at the Missouri Botanical Garden (USA).

2022 – *Taxonomic revision of the genus Thecacoris: a preliminary approach*. Helene Bee. Research Experiences for Undergraduates program at the Missouri Botanical Garden (USA).

2021 – *Ecological drivers of leaf size and shape diversification: a case study with the Afro-Malagasy Croton*. Anna Haudrich. Undergraduate Independent Research – Bio 500. Washington University in St Louis (USA).

2021 – *Evolution and diversification of the genus Croton in Madagascar*. Anna Haudrich. Living Earth Collaborative summer internship. Washington University in St Louis (USA).

2021 – *Integrative taxonomy of the genus Croton in Africa*. Anna Haudrich. Undergraduate Independent Research – Bio 200. Washington University in St Louis (USA).

2020 – *Effects of habitat and diet on the ecomorphological variation in the order Psittaciformes: a comparative approach*. Saransh Gothi. Bachelor of Sciences, Honors Dissertation, Washington University in St Louis (USA).

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**JOURNAL REVIEWER**

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Trends in Ecology and Evolution, Nature Ecology & Evolution, Molecular Ecology, Proceedings of Royal Society B: Biological Sciences, Evolution, Behavior, Biology Letters, Journal of Biogeography, Biological Journal of the Linnean Society, Ecology and Evolution, Environmental Conservation, Zoological Sciences, Diversity, PlosOne, Herpetological Bulletin.

Review to publication ratio = 0.9/1 <https://publons.com/researcher/1300751/joan-garcia-porta/>

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**SELECTED TALKS**

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September 22, 2023. Museo Nacional de Ciencias Naturales (Spain).

October 20, 2023. Universidad Complutense de Madrid (Spain).

September 15, 2021. Universitat de Barcelona (Spain).

September 21, 2022. Sam Houston State University (USA).

May 24, 2021, *Bioforum 2021*. Washington University in St Louis (USA).

April 11, 2014, Autonomous University of Barcelona (Spain).

March 5, 2013, SEMBIO talks, Zoological Museum of Barcelona (Spain).  
May 10, 2012, University of Pavia (Italy).  
March 15, 2012, Natural History Museum of Barcelona (Spain).  
December 14, 2010, Sultan Qaboos University (Sultanate of Oman).

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## **PROFESSIONAL/ACADEMIC AFFILIATIONS**

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Research Associate at the Missouri Botanical Garden (2021 – Present)  
Member of the Society of Systematic Biologists  
Member of the Faculty of Doctors of the University of Barcelona (by invitation)  
Member of Australia Global Alumni (by invitation)

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## **OUTREACH**

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### ***1. Popular science courses***

*Discovering biodiversity and evolution: from fieldwork to genetics and bioinformatics.* Course oriented to high school students. MonNatura Pirineus (La Pedrera Foundation), June 2018, June 2019.

*Reconstructing our evolutionary past.* Course oriented to high school students, Institute of Evolutionary Biology (CSIC-UPF), October 16-24, 2012.

### ***2. Writing of didactic material***

Writing of the text “*How have different animals evolved to find hidden food in wood?*” oriented to 6th-8th grade students. In collaboration with the Institute for School Partnership (ISP) at Washington University in St. Louis (mySci Program).

### ***3. Science blogs***

Regular participation as blogger in the website “la ciència al teu mon” (Science in your world). (<http://lacienciaalteumon.cat/>). Website with the goal of bringing science to young people.

### ***4. Selected popular science talks***

*Origin and diversity of lepidosaurians.* (In Catalan). November 22<sup>th</sup>-2015. II Jornades GHTC-So.He.Va. de Saurios, Centre Cultural Calisay (Arenys de Mar, Barcelona).

*Natural History of Borneo.* (In Catalan). October 29<sup>th</sup>-2015, Llibreria Horitzons (Barcelona).

*Evolution, what is it?* (In Catalan). February 15<sup>th</sup>-2012. Pessics de Ciència (Bits of Science). L'Hospitalet de Llobregat (Barcelona) Spain.

*Australian Reptiles, a window to understand evolution.* (In Catalan). October 24<sup>th</sup>-2012. Talk given in the frame of the course: “Reconstructing our evolutionary past”. Barcelona, Spain.

*Venezuela: an example of tropical diversity.* (In Catalan). January 14, 2003, Institut Mediterrani d'Estudis Avançats. Esporles, Spain.

### ***5. Writings of Science for the public***

**Garcia-Porta, J.** 2002. Frogs of the Colombian Amazon region: diversity and natural history. *Reptilia*, 24: 48-54

**Garcia-Porta J., & Casanovas-Vilar I.** 2001. The origin and first evolutionary stages of turtles: new perspectives. *Reptilia*, 19: 47-5

**LANGUAGES**

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Spanish (native), Catalan (native), English (fluent), French (fluent), Portuguese (fluent).