

CURRICULUM VITAE

JOAN GARCIA-PORTA, PH. D.

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RESEARCH

I am an evolutionary ecologist interested in understanding the mechanisms of adaptation and diversification. My research currently focuses in three general realms: (1) evolution of insular systems, (2) adaptation to climate and climate change and (3) the eco-evolutionary dynamics of innovations. I approach these topics from a broad perspective, combining molecular phylogenetics, morphometrics, GIS approaches and statistical modelling. Lately I have begun to incorporate genomics and transcriptomics in my toolbox, to explore the genetic/genomic underpinnings of adaptation and diversification at different evolutionary scales

CURRENT POSITION

November 2018 – Present. Postdoctoral research associate at Carlos Botero's Lab, Washington University in St Louis, USA.

ACADEMIC EDUCATION

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

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

Master Thesis: “*Molecular phylogenetics and historical biogeography of the European common toad (Bufo bufo species complex)*”. Advisor: Dr. Salvador Carranza.

September 2007 – **B.S. Biology** - *Universitat Autònoma de Barcelona* (Barcelona, Spain)

EMPLOYMENT HISTORY

September 2016 – August 2018. Postdoctoral Fellow at CREAM (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. Contracted Post Doc 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 2013. 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

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 – SYNTHESYS grant for research visit at the Natural History Museum (London, UK) – Awarded by the European Union (5,342 Euro).

2016 – SYNTHESYS grant for research visit at the Musée National d'Histoire Naturelle (Paris, France) – Awarded by the European Union (5,192 Euro).

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

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 Euro, granted by Spanish Research Council).

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

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

AWARDS

2016 – ‘Best PhD Award’ (premio extraordinario de doctorado) of 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).

PUBLICATIONS

1. Fernández-Martínez M., Preece C., Corbera J., Cano O., **García-Porta J.**, Sardans J., Janssens I., Sabater F. & Peñuelas J. Bryophyte C:N:P stoichiometry, biogeochemical niches, and elementome plasticity driven by environment and coexistence. *Ecology Letters* (Accepted).

2. Sol, D., **Garcia-Porta, J.***, González-Lagos, C., Pigot, A., Tobias, J., & Trisos, C. 2021. A test of Darwin's naturalization conundrum in birds reveals enhanced invasion success in presence of close relatives. *Authorea Preprints* (under review in *Ecology Letters*). <https://doi.org/10.22541/au.161399670.05232074/v1> * Shared 1st authorship.
3. Rodríguez A., Rodríguez B., Montelongo T., **Garcia-Porta J.**, Pipa T., Carty M., Danielsen J., Nunes J., Silva C., Geraldés 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).
4. 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 specialisation and longer generation time are associated with relatively larger brains in bees. *Proceedings of the Royal Society B*. 287(1935), p.20200762.
5. 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
6. 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.
7. **Garcia-Porta J.**, Irisarri I, Kirchner M. ... Müller J., Vences M. & Wollenberg Valero K. C. 2019. Environmental temperatures shape thermal physiology as well as diversification and genome-wide substitution rates in lizards. *Nature Communications*, 10: 4077
8. Fernández-Martínez M., Berloso F., Corbera J., **Garcia-Porta J.**, Sayol F., Preece C. & Sabater F. 2019. Towards a moss sclerophylly continuum: evolutionary history, water chemistry and climate control traits of hygrophytic mosses. *Functional Ecology*, 33 (12) 2273-2289
9. 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. 2019. Abiotic environmental adaptation in vertebrates is characterized by functional genomic constraint. *BioRxiv* (in review in *Genome Biology and Evolution*). <https://www.biorxiv.org/content/biorxiv/early/2019/08/08/726240.full.pdf>
10. 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
11. 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*. <https://elifesciences.org/articles/39270>
12. 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.**, Mazuch, T., Wilms, T., Gebhart, J., Aznar, J., Gallego, J., Zwanzig, B-M., Fernández-Guiberteau, D., Al Saadi, S., Alghafri, A., Khalifa, S., Al Furkani, H., Samir, S., Al Adhubi, A., Al Shariyani, M., Al Kiyumi, A., Nasiir Al-Rubaiey, S., Al Sariri, T., Said Al-

- Shukaili, A., Bin Nasser Al Akhzami, S. 2018. Diversity, distribution and conservation of the terrestrial reptiles of Oman (Sauropsida, Squamata). *PLoS ONE*. <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0190389>
13. **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
 14. Wollenberg-Valero K., **Garcia-Porta J.**, Rodriguez A, Arias M, Shah A., Randrianiaina 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*, 8:15213
 15. Rivas-Ubach A., Sardans J., Hódar, J., **Garcia-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
 16. **Garcia-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*, 6:23729
 17. **Garcia-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
 18. Rivas-Ubach A., Sardans J., Hódar J. A., **Garcia-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
 19. Ord T., Klomp D. **Garcia-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
 20. Bellati, A., Carranza S., **Garcia-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
 21. Badiane A., **Garcia-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.
 22. **Garcia-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
 23. Beukema W., De Pous P., Donaire-Barroso D., Bogaerts S., **Garcia-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

24. Ord, T. & **Garcia-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
25. **Garcia-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
26. Richter-Boix A., Llorente G. A., Montori A. & **Garcia J.** 2007. Tadpole diet selection varies with the ecological context in predictable ways. *Basic and Applied Ecology*, 8: 464-474
27. 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
28. Barrio-Amorós C. & **Garcia-Porta J.** 2003. Herpetological Report: *Colostethus humilis*. *Herpetological Review*, 34 (4):380
29. 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 [*First fossil record of the families Gekkonidae (Lacertilia) y Colubridae (Serpentes) in the Pliocene of Punta Nati (Minorca, Balearic Islands)*]. *Comptes Rendus de l'Académie des Sciences de Paris (paleoevolution)*, 1: 227-234
30. **Garcia-Porta J.**, Quintana J., Bailon S. 2002. First record de *Blanus sp* from the balear Neogene. *Revista Española de Herpetología*, 16:19-27
31. 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
32. **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
33. 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
34. **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

35. Filella-Subirà E., Gässer-Casanovas Z. **Garcia-Porta J.** & Ferrer-Ferrer J. A. 1999. Una piqueta fòsil de tortuga terrestre en el Pleistoceno de Formentera (Islas Pitiusas, archipiélago Balear). *Treballs del Museu de Zoologia de Barcelona*, 8: 67-84.

CONFERENCE PRESENTATIONS

1. Fernández-Martínez M., Berloso F., Corbera J., **Garcia-Porta J.**, Sayol F., Preece C. & Sabater F. On mosses and springs: environmental, spatial and phylogenetic patterns of aquatic and semi-aquatic mosses. *Briology 2019*. July 9-12, 2019, Madrid (Spain). Oral presentation.
2. Fernández-Martínez M., Berloso F., Corbera J., **Garcia-Porta J.**, Sayol F., Preece C. & Sabater F. Water chemistry drives functional traits of aquatic and semi-aquatic mosses. *British Ecological Society Annual Meeting 2018*. December 16-19, 2018, Birmingham (UK). Oral presentation.
3. Casanovas-Vilar I, **Garcia-Porta J.**, Fortuny J., Sanisidro O., Prieto J., Querejeta M., Llácer S., Robles J. M., Bernardini F. & Alba D. Fossil flying squirrels take off. *1st Paleontological Virtual Congress*. December 1-15, 2018, Valencia (Spain). Oral presentation.
4. Fernández-Martínez M., Berloso F., Corbera J., **Garcia-Porta J.**, Sayol F., Preece C. & Sabater F. Water chemistry drives functional traits of aquatic and semi-aquatic mosses. *British Ecological Society Annual Meeting 2018*. December 16-19, 2018, Birmingham (UK). Oral presentation.
5. Casanovas-Vilar I, **Garcia-Porta J.**, Fortuny J., Sanisidro O., Prieto J., Querejeta M., Llácer S., Robles J. M., Bernardini F. & Alba D. First skeleton of a flying squirrel and a new time-calibrated phylogeny of the group combining molecular and morphological data. *5th International Paleontological Congress*. July 9-13, 2018, Paris (France). Oral presentation.
6. Ord T., **Garcia-Porta J.** & Collar D. Diversifying versus stabilizing selection on body size in Southeast Asian gliding dragons (genus *Draco*). *Australasian Evolution Society Meeting*. December 4-6, 2017, Hobart (Australia). Oral presentation.
7. **Garcia-Porta J.**, Querejeta M. & Ord, T. Gliding adaptations in lizards and mammals: a convergence with different evolutionary consequences. *3rd Meeting of the Spanish Network on Tropical Ecology (RedTrop)*. October 27-28, 2016, Barcelona (Spain). Oral presentation.
8. Casanovas-Vilar I., Fortuny J., Llácer S., Prieto J., **Garcia-Porta J.**, Robles J. M. & Alba D. First complete skull of a fossil flying squirrel from the Miocene of Catalonia. *Annual Meeting of the Society of Vertebrate Paleontology*. October 26-29, 2016, Salt Lake City (USA). Oral presentation.
9. Wollenberg-Valero K., **Garcia-Porta J.**, Rodriguez A, Arias M, Shah A., Randrianiaina R. D., Brown J., Glaw F., Amat F., Künzel S., Metzler D., Isokpehi R. D., Vences M. Uncoupled evolution of life cycle phases in frogs. *8th World Congress of Herpetology*. August 15-21, 2016, Hangzhou (China). Oral presentation.
10. **Garcia-Porta J.**, Simó-Riudalbas M., Robinson M. & Carranza, S. Hidden in Arabia: the story of an unexpected lizard radiation found within a single "subspecies". *III Iberian*

Congress on Biological Systematics. December 17-18, 2015, Vitoria-Gasteiz (Spain). Oral presentation.

11. Carranza S., **Garcia-Porta J.**, Montero-Mendieta S., Simó-Riudalbas M., Morales H., Arsovski D., Sindaco R., Santos X., Fasola M., Llorente G., Pujol-Buxó E., Razzetti E., Vasconcelos R. Forgotten in the ocean: systematics, biogeography and evolution of the reptiles of the Socotra archipelago. *14th annual general meeting of the FoS*. September 11-13, 2015, Variao (Portugal). Oral presentation.
12. **Garcia-Porta J.** Using phylogenies and comparative methods to understand the evolutionary radiation of Socotran geckos. *New Approaches to Analyse Phylogenetic Diversification, and their application to the Madagascar Model System*. November 18-19, 2014, Delmenhorst (Germany). Oral presentation.
13. **Garcia-Porta J.**, Carranza, S. Species assembly and niche structure in the Socotra Archipelago: not a single pattern to rule all geckos. *Modern Phylogenetic Comparative Methods and their Application in Evolutionary Biology*. November 11-15, 2014, Seville (Spain). Poster presentation.
14. **Garcia-Porta J.**, Ord T. Key innovations and island colonization as engines of evolutionary diversification: a comparative test with the Australasian diplodactyloid geckos. *4th Meeting of the Spanish Society for Evolutionary Biology*. November, 25-29, 2013, Barcelona (Spain). Oral presentation.
15. **Garcia-Porta J.**, Smid J, Fasola M. & Carranza S. Testing the “island effect” on the tempo and mode of phenotypic evolution: insights from the Afro-Arabian and Socotran Hemidactylus geckos. *II Iberian Congress on Animal Systematics*. September, 25-27, 2013, Barcelona (Spain). Oral presentation
16. **Garcia-Porta J.**, Morales H., Gómez-Díaz E., Sindaco R., Pupin F., Fasola M, Carranza S. Community assembly and *in situ* diversification in continental islands: what do we learn from the geckos of the Socotra Archipelago? *Advances in Ecological Speciation*. April 29-30, 2013, Vairao (Portugal). Poster presentation.
17. **Garcia-Porta J.**, Morales H., Gómez-Díaz E., Sindaco R., Pupin F., Fasola M, Carranza S. Community building in continental islands: the case of the geckos of the Socotra Archipelago. *XI Jornada de Biología Evolutiva*. July 11 2012, Barcelona (Spain). Oral presentation.
18. **Garcia-Porta J.**, Litvinchuk S., Crochet PA, Romano A., Geniez P., Lo-Valvo M, Lymberakis P, Carranza S. Molecular phylogenetics and historical biogeography of the European common toad (*Bufo bufo* species complex). *Frontiers in Biodiversity. A phylogenetic perspective*. October 1-2, 2010, Barcelona (Spain). Poster presentation.
19. **Garcia-Porta J.** Genes and genomes jumping between species: the case of European water frogs. *XI Jornades Herpetològiques Catalanes*. October 19-21, 2007, Barcelona (Spain). Oral presentation.

PARTICIPATION IN PROJECTS (PROJECT WRITING CO-AUTHOR)

1. Name: *Genómica Comparada y de Poblaciones de la radiación evolutiva terrestre de arañas del género Dysdera (Arachnida: Dysderidae)*.
Entity where project took place: Universitat de Barcelona

- Name principal investigator: Julio Rozas
Nº of researchers: 4
Funding entity: Ministerio de Ciencia e Innovación
Code: PID2019-103947GB-C21
Start-End date: 2020 - 2023
Total amount: 222.640 €
2. Name: *Life history variation and the non-random loss of biological diversity in human altered habitats.*
Entity where project took place: CREAMF
Name principal investigator: Daniel Sol
Nº of researchers: 11
Funding entity: Ministerio de Ciencia e Innovación
Code: CGL2017-90033-P
Start-End date: 2018 - 2020
Total amount: 166.980 €
3. Name: *Biodiversity and evolution in Mediterranean systems.*
Entity where project took place: CREAMF
Name principal investigator: Maria Mayol
Nº of researchers: 14
Funding entity: Generalitat de Catalunya
Code: 2017SGR1006
Start-End date: 2017 - 2019
Total amount: 20.000 €
4. Name: *Arabian reptiles as a model to investigate how biodiversity is generated and maintained in arid areas.*
Entity where project took place: Instituto de Biología Evolutiva (IBE)
Name principal investigator: Salvador Carranza
Nº of researchers: 7
Funding entity: Ministerio de Ciencia e Innovación
Code: CGL2015-70390-P
Start-End date: 2016 - 2018
Total amount: 154.154 €
5. Name: *Animal Biology and Evolution.*
Entity where project took place: Instituto de Biología Evolutiva (IBE)
Name principal investigator: Salvador Carranza
Nº of researchers: 16
Funding entity: Generalitat de Catalunya
Code: 2014SGR1532
Start-End date: 2014 - 2016
Total amount: 38.400 €
6. Name: *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: Instituto de Biología Evolutiva (IBE)
Name principal investigator: Salvador Carranza
Nº of researchers: 7
Funding entity: Ministerio de Ciencia e Innovación
Code: CGL2012-36970
Start-End date: 2013 - 2015
Total amount: 176.670 €

7. Name: *Living on the edge: origin and diversification of the reptile communities of the deserts of North Africa and Arabia.*
Entity where project took place: Instituto de Biología Evolutiva (IBE)
Name principal investigator: Salvador Carranza
Nº of researchers: 13
Funding entity: Ministerio de Ciencia e Innovación
Code: CGL2009-11663
Start-End date: 2010 - 2013
Total amount: 171.820 €

8. Name: *Using Agamid lizards to understand the origin and colonization of North African and Arabian deserts.*
Entity where project took place: Instituto de Biología Evolutiva (IBE)
Name principal investigator: Salvador Carranza
Nº of researchers: 4
Funding entity: CSIC and Russian Academy of Sciences
Code: 2010RU0055
Start-End date: 2011 - 2012
Total amount: 20.500 €

TEACHING

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 terrestrial ecology

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

ACADEMIC MENTORING

Co-supervision with Dr. Salvador Carranza (Institute of Evolutionary Biology) of the following master thesis:

1. Marc Simó Riudalbes - MSc in Biology, University of Barcelona. *Intra-island diversification of the genus Haemodracon (Gekkota, Phyllodactylidae) in the Socotran Archipelago: a phylogenetic, ecological and morphometric approach.* September 2012.
2. Arnaud Badiane - MSc Student Université Pierre et Marie Curie, France. *Systematics, evolution and biogeography of the genus Pristurus (Squamata, Sphaerodactylidae).* June 2013
3. Hernan Morales - MSc in Biology, Centre for Evolutionary and Ecological Studies, University of Groningen. *Phylogeography and evolution of the geckos of the genus Pristurus from the Socotran archipelago.* May 2011.

Co-supervision with Dr. Diego San Mauro (Universidad Complutense de Madrid) of the following master thesis:

4. Clara Bernet - MSc in Biology, Universidad Complutense de Madrid. *Biogeography and evolution of the family Talpidae*. November 2016.

Co-supervision with Dr. Albert Prieto Márquez (Catalan Institute of Paleontology) of the following master thesis:

5. Jesús F. Serrano Pérez - MSc in Paleontology, Autonomous University of Barcelona. *Morphological evolution of hindlimb elements in ornithopod dinosaurs*. Expected June 2021.

Co-supervision with Dr. Carlos Botero (Washington University in St Louis) of the following Bachelor of Sciences, Honors Dissertation:

1. Saransh Gothi – Undergraduate student, Washington University in St Louis. *Effects of habitat and diet on the ecomorphological variation in the order Psittaciformes: a comparative approach*. April 2020.

JOURNAL REVIEWER

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.

Publons: <https://publons.com/researcher/1300751/joan-garcia-porta/>

SELECTED TALKS

Key innovations and island colonization as drivers of phenotypic and species diversification: what do we learn from the Australasian geckos?

April 11, 2014, in the frame of: *Seminars on genomics and evolutionary research*. Autonomous University of Barcelona (Spain).

How does diversity build up in continental islands? lessons from the long forgotten Socotra Archipelago.

March 5, 2013, SEMBIO talks, Zoological Museum of Barcelona (Spain).

Island biogeography: a macroevolutionary perspective.

May 10, 2012, University of Pavia (Italy).

Evolution and historical biogeography of the European common toad.

March 15, 2012, Natural History Museum of Barcelona (Spain).

Closing the gaps between phylogeny, ecology and biogeography: new perspectives.

December 14, 2010, Sultan Qaboos University (Sultanate of Oman).

Venezuela: an example of tropical diversity.

January 14, 2003, Institut Mediterrani d'Estudis Avançats (Spain).

OUTREACH

Courses aimed to the general public:

Descobrint la biodiversitat i l'evolució: des del treball de camp fins a la genètica actual a través de la bioinformàtica [Discovering biodiversity and evolution: from fieldwork to genetics and bioinformatics]. Course oriented to high school students, MonNatura Pirineus, June 2018 and June 2019.

Reconstruyendo nuestro pasado evolutivo [Reconstructing our evolutionary past]. Course oriented to high school students, Institute of Evolutionary Biology (CSIC-UPF), October 16-24, 2012.

Selected talks aimed to the general public:

Els rèptils australians, un model per entendre l'evolució. [Australian reptiles, a model to understand evolution]. October 24th-2012. Talk given in the frame of the course: “Reconstruint el nostre passat evolutiu” (reconstructing our evolutionary past). Barcelona.

Que és l'evolució? [What evolution is?]. February 15th-2012. Pessics de Ciència. L'Hospitalet de Llobregat (Barcelona).

Dels dracs voladors als homes de la selva: un passeig per la història natural de Borneo [conference about the natural history of the island of Borneo]. October 29th-2015, Llibreria Horitzons (Barcelona).

Origen i diversitat dels lepidosaures: una aproximació filogenètica [Origin and diversity of lepidosaurians: a phylogenetic approach]. November 22th-2015. II Jornades GHTC-So.He.Va. de Saurios, Centre Cultural Calisay (Arenys de Mar, Barcelona).

Science blogs:

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

POPULAR PRESS COVERING MY RESEARCH

El País, La Vanguardia, El Mundo, El Diario.es, Periódico de Ibiza, Diari de Girona, La Sexta, Cadena Cope, La Voz de Asturias, La Voz de Galicia.

POPULAR SCIENCE

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

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