**Agustín Camacho Guerrero**

**Marie-Curie fellow at Spanish Research’s Council.**

Department of Evolutionary Ecology. Doñana’s Biological Station.

CP: 41092. Av. Américo Vespucio. Sevilla. España.

PERSONAL INFORMATION

**Hometown/country:** Córdoba/Spain.

**Birth date:**  January 23, 1979.

**Languages:** Spanish (native), Portuguese (advanced), English (advanced).

**Phone:** 5511996524704

**E-mail:** agustincamacho@usp.com.br

**Skype:** Agustín Camacho

**Website:** http://www.agustincamacho.com/

EDUCATION

**2012 PhD in Zoology**. University of São Paulo (USP). São Paulo, Brasil.

**2006 MSc in Ecology and biomonitoring**. Federal University of Bahia (UFBA). Salvador, Brazil. (Honors mention for project originality).

**2003 Licentiate in Biological Sciences**. University of Córdoba (UCO). Córdoba. Spain.

SOFTWARE/ANALYTICAL SKILLS

Advanced user of the R environment, data mining, image analysis, multivariate statistics, mixed models, accumulation curves, linear models, model selection, permutation tests, models for multinomial variables, and species geographic distribution modeling.

ADMINISTRATIVE POSITIONS (organizer, committees, editorial)

**2020-present Associated Editor. Biodiversity and Conservation.**

**2018. Phd Thesis reviewer.** Pol
Pintanel Costa.

**2018. Suplente em banca de doutorado. USP.** Processos fisiológicos envolvidos na aquisição, perda e recolocação de *Zooxantela,* ligados ao branqueamento de cnidários.

**2018 Organizer.** International workshop: Organism-Environment interactions: timing plasticity and metabolic adjustments.USP.

**2018 Committee member** (Substitute).PhD thesis.USP.Physiological processes associated to acquisition, loss and recovery of zooxanthellae related to cnidarian bleaching.

**2017- 2020. Representative of postdoctoral fellows at IB-USP research comittee**.

**2017-2020 Organizer** of post doc meetings at the Biosciences Institute at USP. Development of a website for post-docs at USP.

**2017 Committee member** (Substitute).PhD thesis.USP.Coevolution of antipredatory behavior, locomotor performance, and morphology of Atlantic Rainforest anurans.

**2016** **Committee member.** Qualification of Master thesis. USP. Escolha de microhabitat termal por *Rhinella ornata*.

**2016** **Committee member.** Qualification of honors study. Arizona State University. The effect of hydration state on voluntary maximum temperature of a desert reptile, *Heloderma suspectum*.

**2016** **Symposium organizer.** World herpetology congress, Symposium: How Lizards Turn into Snakes: Combining Fossils, Phylogeny, Function, Genetics, Development, Morphology, and Ecology. Huangzhou, China.

**2014** **Committee member (**Substitute). PhD thesis. USP. Raptor abundance in the Brazilian Cerrado and Pantanal: insights from detection-based methods.

**2014** **Committee member.** Qualification of honors study. Modelagem potencial de distribuição geográfica para as espécies dos gêneros *Cycloramphus* e *Zachaenus* (Anura: Cycloramphidae): o que cenário atual pode dizer sobre o futuro. UNIFESP. São Paulo.

**2011** **Committee member.** Qualification of honors study. USP. Biomecânica da locomoção serpentiforme na Família Gymnophthalmidae.

**2013-2015** **Editor**: Métodos en Ecología y sistemática. <http://metodosenecologiaysistematica.org/MES.html>

**2011-2014** **Coordinator**: Revista da Biologia. <http://www.ib.usp.br/revista/>

**2009, 2010** **Organizer of summer course module**: Topics in comparative physiology. USP.

**2006** **Committee member**. Definition of Conservation priority areas in Northeastern Brazil

**2009-2010** **Students representative** in Graduate Program. USP.

**2005. Organizer of UFBA winter courses.** UFBA**.**

**2005** **Students representative** in Scholarships Committee. UFBA.

**2004-2005** **Students representative** in Graduate Program. UFBA.

TEACHING

**2019, 2020 Instructor.** Scientific writing. (45h, USP).

**2018 Instructor.** Project design and writing for physiologists. (45h, USP).

**2016 Instructor.** Functional Biogeography. Arizona State University. 35h.

**2014, 2018 Instructor.** Phylogenetic comparative Methodsin R. 17h and 45h, respectively. USP.

**2009, 2010 Instructor.** Projects design. (USP). 4h each module.

**2005, 2006 Instructor.** Project writing for ecologists. (UFBA). 20h each.

**2008** **Attendee.** Seminars on teaching techniques. (USP).15h.

**2003** **Attendee, practices organizing and teaching complete subject.** Course for pedagogic formation. (UCO). (180h).

SUCCESSFUL FUNDING APPLICATIONS

**2020** Marie Curie Individual Fellowship. 165,000 €

**2018** Competitive Interdepartamental Grant at Institute of Biosciences. USP. 10,000€

**2018** Brazil´s National Postdoctoral Program fellowship (PNPD).12,600€

**2016** FAPESP Postdoc fellowship renewal. 22,000€

**2015** FAPESP BEPE grant for international research project. 65,000€

**2014** FAPESP Postdoc fellowship renewal. 25,000€

**2013** Grant from the Australian & Pacific Science foundation. 24,300 €

**2012** Travel grant for the World Herpetology Congress 7 in Vancouver. 1,000 €

**2012** FAPESP standalone Postdoc fellowship. 65,000 €

**2009** FAPESP support grant for PHD project. 15,000 €

**2008** CAPES scholarship for PHD project (USP). 10,000 €

**2006** FAPESB technical support scholarship (UFBA). 2,800 €

**2005** CAPES scholarship. MSc project in Ecology and Biomonitoring (UFBA). 2,800 €

**2005** Travel grant for attending the Smithsonian/INPA Field Ecology course of the Amazonian Rainforest. Undetermined quantity to cover travelling, living and tuition expenses.

**2003** Travel grant for studying Brazilian venomous animals. National Spanish Agency for International Cooperation. Undetermined quantity to cover travelling, living and tuition expenses.

\* Budgets for Brazilian projects are approximate due to variation in exchange rate over time.

RESEARCH (Projects/ fellowships/collaborations)

**2020-present Marie Curie fellow.** Estación Biológica de Doñana. CSIC. España.

**2018-present Associated researcher.** Predicción ecofisiológica y evolutiva de los efectos del calentamiento global. Análisis de vulnerabilidad en anfibios a lo largo de gradientes altitudinales y latitudinales. Ministerio de Economía, Industria y Competitividad. España.

**2017-2020 PNPD/CAPES fellow.** Evaluating parameters of thermal tolerance used to forecast climatic vulnerability. USP.

**2019-2020 FAPESP.** Padrões de Endemismo Filogenético e Filogeografia Comparada da Herpetofauna da Amazônia Brasileira. 19/07090-10.

**2013-present Associated researcher**. Atlantic Forest Dimensions of Biodiversity. NSF-FAPESP. http://www.afbiota.org/

**2015-2016 FAPESP BEPE Fellow** atArizona State University. Developing a method for modeling climatic vulnerability in lizards. Investigating effects of trait evolution on abundance and range size.

**2013 FAPESP Postdoc visitor** at University of Adelaide. Studies of thermal tolerance, microhabitat use and locomotor performance in snake-like lizards.

**2012-2017 FAPESP Posdoc fellow**. USP. Investigation of the consequences of phenotypic evolution over population and species level traits in lizards. <http://www.bv.fapesp.br/en/bolsas/138666/ecogeographical-consequences-of-evolution-of-the-snake-like-morphotype-in-squamates/>.

**2013 FAPESP Postdoc visitor** at University of Adelaide. Development of methods that account for phylogenetic and geographic uncertainty to the analysis of the effects of trait evolution to species level traits (range size) in lizards.

**2012-2015 APSF project co-leader.** Investigating the impact of seismic surveys on threatened sea snakes in Australia's North West Shelf. <http://www.apscience.org.au/projects/APSF_12_5/apsf_12_5.html>

**2009-2013 Project collaborator.** Theme project. PFPMCG/ PRONEX FAPESP 2008/57687-0, Effects of global climate change of the Brazilian fauna: a conservation physiology approach.

**2008-2012** **PhD project**. Study of the relationship between the evolution of thermal physiology, morphology and behaviour, abundance and geographical distribution in lizards.

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**2004-2006** **Master of Science Project**, assessing the relation of functional traits of Brazilian Atlantic Forest lizard communities with vegetation structure. CAPES scholarship.

**2005** **Project collaborator**. Studies on spider life history and restoration of community traits of Brazilian Atlantic Forest spider assemblages.

**2003-2004** **Project assistant**. Serpentes de Importância Médica do Nordeste. FUNASA/MS (National Health Foundation, Health Ministry). Studies of geographic distribution of accidents related to snakes and their venomous animals in Brazil.

**2003 Undergraduate Scholarship.** Captive care, venom extraction and identification of venomous snakes and venomous invertebrates. Spanish Education Ministry. Bahia. Brazil. Undetermined quantity for travelling, living and tuition expenses.

**1998, 1999** **Undergraduate** **Ecophysiology labs**. Studying developmental times in *Danaus plexippus* and enzymatic biocides on termites.

FIELDWORK

More than one accumulated year of professional expeditions to diverse ecosystem types in Brazil, Mozambique, Australia and United States (Rainforest, Savanna, Bush, Desert, and Sea). Student in two field ecology courses: Smithsonian Field Ecology Course in the Amazon Forest and the UFBA: Projects in Ecology Course in the Caatinga. Assistant at the UFBA: Projects in Ecology Course, in the Brazilian Atlantic Rainforest.

SUPPORTIVE REFEREES

 **Post doctoral period**

Dr. Michael Angilletta Jr. Arizona State University (Collaborator). United States. ma@asu.edu

Dr. Michael Lee. South Australian Museum (Collaborator). Australia. Mike.Lee@samuseum.sa.gov.au

Dr. Ana Carnaval. City University of New York. United States. United States. acarnaval@ccny.cuny.edu

**Graduate and Post doctoral period**

Dr. Miguel Trefaut Rodrigues (PhD adviser). USP. Brazil mturodri@usp.br

Dr. Carlos Arturo Navas Iannini (PhD Co-adviser). USP. Brazil. navas@usp.br

Dr. Pedro Luis Fernando da Rocha (MSc Adviser). UFBA. Brazil. peurocha@ufba.br

**Undergraduate period**

Dr. Carmen Galán Soldevilla (Recommendation letter in Spanish), Department of Botany, Ecology and plant Physiology, UCO, Spain. bv1gasoc@uco.es

Dr. Juan Fernandez Haeger (Recommendation letter in Spanish), Department of Botany, Ecology and plant Physiology, UCO, Spain. bv1fehaj@uco.es

Dr. Miguel Gaju Ricart (Recommendation letter in Spanish), Department of Zoology, UCO, Spain. ba1garim@uco.es

REVIEWER

National Science Foundation, Biology letters, Frontiers in Ecology and Evolution, Evolution, Oikos, PlosOne, Biological Journal of the Linnean Society, Journal of experimental Biology, Journal of experimental Zoology, Journal of Thermal Biology, Journal of Comparative Physiology B, Phyllomedusa, Iheringia, Check list, Journal of Behavioral Processes, Copeia, Revista da Biologia, Annals of Brazilian Academy of Sciences, Biotropica. Herpetozoa, Amphibia/Reptilia.

OUTREACH

Published photographs of rare species in international nature webs and Brazilian institutional websites (National Geographic, Reptile Database, Arkive, Museu de Zoologia da UFBA, Instituto Chico Mendes, etc), Scientific magazine covers and Brazilian biology textbooks. Two radio interviews, in Brazil and Mozambique. PhD project mentioned in FAPESP Magazine. Poster and explanations to school visits about snakes during São Paulo Science Week. Informative poster about lizard species from Reserva de Sapiranga (Field work site during masters project), Pico da Neblina National park, placed at visitation center of that reserve. Participation in BBCWorld: Amazon explorers program, and Videos published at “Ecoreporter” program. Monitor during visits to Brazilian schools to teach how to avoid accidents with venomous animals and still respect them. Translation of the Wikipedia page to Portuguese and Spanish: gender mainstreaming.

PEER REVIEWED ARTICLES

**Under review**

**Journal of Avian Biology.** Do passerine birds constructing enclosed nests have bigger brains?Barros, A. Leite**, Camacho, A.** Mercival, F.

**Functional Ecology.** Dehydration-induced variation in the voluntary thermal maximum alters geographic models of climatic vulnerability in Amazonian lizards**.** **Camacho. A**. Brunes, T., Trefaut, M. T. *Major revision.*

**Journal of comparative Physiology B**. Integrative Responses of Leaf-Cutting Ants to Temperature Rises. Lima, C. S., Helene, A. F., & **Camacho, A**. *Major revision.*

**2021**

**Biological Journal of the Linnaean society**. Antoine Fouquet1\*, Killian Leblanc1, Marlene Framit1, Alexandre Réjaud1, Miguel T. Rodrigues2, Santiago Castroviejo-Fisher3, Pedro L. V. Peloso4, Ivan Prates5, Sophie Manzi1, Uxue Suescun1, Sabrina Baroni3, Leandro Moraes6, Renato Recoder2, Sergio Marques de Souza2, Francisco Dal Vecchio2, Agustín **Camacho**2, José Mario Guellere3, Pedro Ivo Simões3, Fernando J. M. Rojas-Runjaic3,7, Giussepe Gagliardi-Urrutia3, Philippe J. R. Kok8, Tomas Hrbek9, Fernanda P. Werneck2, Andrew J. Crawford10, Santiago R. Ron11, Anne-Claire Fabre. Species diversity and biogeography of Otophryninae (Microhylidae), an ancient frog lineage with a Guiana Shield origin and spectacularly divergent morphological evolution

**2020**

Guevara-Molina, E. C., Gomes, F. R., & **Camacho**, A. Effects of dehydration on thermoregulatory behavior and thermal tolerance limits of *Rana catesbeiana*. Journal of Thermal Biology, 93, 102721.

Lima, C. S., Helene, A. F., & **Camacho**, A. (2020). Integrative Responses of Leaf-Cutting Ants to Temperature Rises. bioRxiv.

Recoder, R., Prates, I., Marques-Souza, S., **Camacho**, A., Nunes, P. M., Dal Vechio, F., ... & Rodrigues, M. T.Lizards from the Lost World: two new species and evolutionary relationships of the Pantepui highland *Riolama* (Gymnophthalmidae). Zoological Journal of the Linnean Society.

Vacher, J. P., Chave, J., Ficetola, F. G., Sommeria‐Klein, G., Tao, S., Thébaud, C., Blank,M; **Camacho**, A., ... & Dewynter, M. Large‐scale DNA‐based survey of frogs in Amazonia suggests a vast underestimation of species richness and endemism. Journal of Biogeography.

**2019**

Recoder, R. S., A, Prates, I.**, Camacho**, A. Nunes, P., Rodrigues, M. T. Lizards from the Lost World: Discovery of two new species and evolutionary relationships of the Pantepui highland *Riolama* (Gymnophthalmidae), *Zoological Journal of the Linnean Society.*

Wiens, J. J., **Camacho**, A., Goldberg, A., Jezkova, T., Kaplan, M. E., Lambert, S. M., ... & Walls, R. L. (2019). Climate change, extinction, and Sky Island biogeography in a montane lizard. *Molecular ecology*, 28(10), 2610-2624.

**2018**

Recoder, R. S., Magalhães-Júnior, A., Rodrigues, J., Pinto, H. B. D. A., Rodrigues, M. T., & **Camacho**, A. Thermal Constraints Explain the Distribution of the Climate Relict Lizard *Colobosauroides carvalhoi* (Gymnophthalmidae) in the Semiarid Caatinga. *South American Journal of Herpetology*, *13*(3), 248-259.

**Camacho** A, Travis Rusch, Rory Telemeco, Miguel Rodrigues Trefaut, Michael J. Angilletta Jr Measuring the voluntary thermal maximum to address hot topics in ecology, evolution, and conservation. Journal of Thermal Biology.

Marques‐Souza, S., Prates, I., Fouquet, A., **Camacho**, A., Kok, P. J., Nunes, P. M., ... & Barrio‐Amorós, C. Reconquering the water: Evolution and systematics of South and Central American aquatic lizards (Gymnophthalmidae). *Zoologica Scripta*, *47*(3), 255-265.

**Camacho, A**., VandenBrooks, J. M., Riley, A., Telemeco, R. S., & Angilletta Jr, M. J. (2018). Oxygen supply did not affect how lizards responded to thermal stress. *Integrative Zoology*, 13(4), 428-436.

Bars-Closel, M., **Camacho**, A., & Kohlsdorf, T. (2018). Shifts in space and time: ecological transitions affect the evolution of resting metabolic rates in microteiid lizards. *Journal of Experimental Biology*, *221*(14).

**2017**

Stuginski, D. R., Navas, C. A., de Barros, F. C., **Camacho**, A., Bicudo, J. E. P. W., Grego, K. F., & de Carvalho, J. E. (2017). Phylogenetic analysis of standard metabolic rate of snakes: a new proposal for the understanding of interspecific variation in feeding behavior. *Journal of Comparative Physiology B*, 1-9.

Rodrigues, M. T., Recoder, R., Teixeira, M. J., Roscito, J. G., **Camacho**, A. C., Nunes, P. M. S., & Leite, F. S. F. (2017). A morphological and molecular study of *Psilops*, a replacement name for the Brazilian microteiid lizard genus *Psilophthalmus* Rodrigues 1991 (Squamata, Gymnophthalmidae), with the description of two new species. Zootaxa, 4286(4), 451-482.

**Camacho**, A., & Rusch, T. W. (2017). Methods and pitfalls of measuring thermal preference and tolerance in lizards. *Journal of Thermal Biology*

**2016**

**Camacho**, A., Recoder, R., Teixeira Jr, M., Kohlsdorf, T., Rodrigues, M. T., & Lee, M. S. (2017). Overcoming phylogenetic and geographic uncertainties to test for correlates of range size evolution in gymnophthalmid lizards. *Ecography*, *40*(6), 764-773.

**2015**

**Camacho**, A., Rodrigues, M. T., & Navas, C. (2015). Extreme operative temperatures are better descriptors of the thermal environment than mean temperatures. *Journal of Thermal Biology*, 49, 106-111.

**2014**

**Camacho**, A., Pavão, R., Moreira, C. N., Pinto, A. C. B., Navas, C. A., & Rodrigues, M. T. (2015). Interaction of morphology, thermal physiology and burrowing performance during the evolution of fossoriality in Gymnophthalmini lizards. *Functional Ecology*, 29(4), 515-521.

**2013**

Lee, M. S., Skinner, A., & **Camacho**, A. (2013). The relationship between limb reduction, body elongation and geographical range in lizards (*Lerista*, Scincidae). *Journal of Biogeography*, 40(7), 1290-1297.

Rodrigues, M. T., Teixeira-Jr, M., Dal Vechio, F., Amaro, R. C., Nisa, C., **Camacho**, A. C., ... & Recoder, R. S. (2013). Rediscovery of the Earless Microteiid Lizard *Anotosaura collaris* Amaral, 1933 (Squamata: Gymnophthalmidae): A redescription complemented by osteological, hemipenial, molecular, karyological, physiological and ecological data. *Zootaxa*, 3731(3), 345-370.

Teixeira-Jr, M., Recoder, R. S. **Camacho**, A., Sena, M., Navas,C, & Rodrigues, M. T. (2013). A new species of *Bachia* Gray, 1845 (Squamata: Gymnophthalmidae) from the Eastern Brazilian Cerrado, and data on its ecology, physiology and behavior. *Zootaxa*, 3616(2), 173-189.

**2012**

**Camacho**, A. (2012). Responses of terrestrial ectothermic animals to microclimatic variation. *Revista da Biologia*. Article in English and Portuguese.

Ribeiro, P. L., **Camacho**, A., & Navas, C. A. (2012). Considerations for assessing maximum critical temperatures in small ectothermic animals: insights from leaf-cutting ants. *PLoS One*, 7(2), e32083.

Fouquet, A., Recoder, R., Teixeira, M., Cassimiro, J., Amaro, R. C., **Camacho**, A., ... & Rodrigues, M. T. (2012). Molecular phylogeny and morphometric analyses reveal deep divergence between Amazonia and Atlantic Forest species of *Dendrophryniscus*. *Molecular Phylogenetics and Evolution*, 62(3), 826-838.

**2011**

Valdujo, P. H., **Camacho**, A., Recoder, R. S., Teixeira Junior, M., Ghellere, J. M. B., Mott, T., ... & Rodrigues, M. T. (2011). Amphibians from Estação Ecológica Serra Geral do Tocantins, Jalapão region, Tocantins and Bahia States. *Biota Neotropica*, 11(1), 251-261.

Recoder, R. S., Teixeira Junior, M., **Camacho**, A., Nunes, P. M. S., Mott, T., Valdujo, P. H., ... & Rodrigues, M. T. (2011). Reptiles of Serra Geral do Tocantins Ecological Station, Central Brazil. *Biota Neotropica*, 11(1), 263-281.

**Camacho**, A.G. & Caselli, C.B. (2011). *Urostrophus vautieri*, Defense behavior and color change. *Herpetological Review*. v.42. p. 610.

**2010**

Recoder, R. S., Teixeira-Jr, M., Cassimiro, J., **Camacho**, A. G., & Rodrigues, M. T. (2010). A new species of *Dendrophryniscus* (Amphibia, Anura, Bufonidae) from the Atlantic Rainforest of southern Bahia, Brazil. *Zootaxa*, 2642, 36-44.

**Camacho**, A. G., & da Rocha, P. L. B. (2010). Passive restoration in biodiversity hotspots: Consequences for an Atlantic rainforest lizard taxocene. *Biotropica*, 42(3), 379-387.

**Camacho**, A.G., Amaro. R.C., Rodrigues, M. T. (2010) *Stereocyclops incrassatus* (Dumpy frog). Defensive behavior. *Herpetological Review*, v. 41, p. 210-210.

**2008**

Rodrigues, M. T., **Camacho**, A., Nunes, P. M. S., Recoder, R. S., Teixeira, M., Valdujo, P. H., & Nogueira, C. (2008). A new species of the lizard genus *Bachia* (Squamata: Gymnophthalmidae) from the Cerrados of Central Brazil. *Zootaxa*, (1875), 39-50.

Almeida-Silva, L. M., **Camacho**, A., Brescovit, A. D., Lucas, S. M., & Brazil, T. K. (2008). Redescription and notes on the natural history of the arboreal tarantula *Iridopelma seladonium* (Araneae: Theraphosidae: Aviculariinae). *Revista Brasileira de Zoologia*, 25(4), 728-736.

Pinto-Leite, C. M., **Camacho**, A. G., & Brazil, T. K. (2008). Non-random patterns of spider species composition in an Atlantic rainforest. *Journal of Arachnology*, 36(2), 448-452.

**2006**

**Camacho**, A., da Rocha, P. L. B., Rios, V., & Miranda, J. G. V. Are lizards affected by fractal dimension of light entrance in forests?. In Proc. of the 2006 International Symposium on Mathematical and Computational Biology: BIOMAT 2006. Editora E-papers.

**Camacho**, A.G., Rodrigues, M. T. (2006) *Dryadosaura nordestina*. Geographic distribution. *Herpetological Review*, v. 38, p. 218-219.

BOOKS

**2010 and 2011.**

**Book of peer-reviewed lessons for the course: Tópicos em fisiologia comparative. Department of Physiology. IB-USP.**

**Camacho** A. G Método Científico aplicado a estudos em fisiologia comparativa.

**2005**

**Book of peer-reviewed articles produced by the Smithsonian-INPA Amazon field course.**

Figueiredo, M. G., **Camacho** A. G., Rezende, C., Guimarães M. R. & Rocha, R. F. Efeito de borda sobre a interação planta-patógeno em *Heliconia acuminata* (Heliconiaceae).

**Camacho** A. G., Rezende, C., Rocha, R. F. Guimarães M. R. & Figueiredo, M. G., Riqueza e composição de artrópodes associados ao folhiço acumulado nas folhas de palmeira em área sob manejo florestal na Amazônia Central.

Rezende, C. Munari, D. Guevara, J., Barbosa, J. & **Camacho** A. G. Assembléia de peixes associada à macrófita *Paspalum repens* (Poaceae) em uma área de várzea no Rio Solimões.

Resposta da herpetofauna a um gradiente topográfico no arquipélago amazônico de Anavilhanas. **Camacho** A. G., Gainsbury A. & Guimarães M. R.

Efeito de pistas químicas e biológicas sobre o recrutamento de uma espécie de formiga associada a uma planta mirmecófita Thaíse Emílio, Paulo Enrique C. Peixoto, Alisson Gainsbury, Victor Trivério Cardoso & Agustín Camacho.

Resposta discriminante de Pheidole minutula(Hymenoptera Formicidae) em plantas de Maieta guianensis (melastomataceae)e suas implicações para a evolução do mutualismo obrigatório entre formigas e plantas Agustín Camacho Guerrero.

TALKS

**2019**

Lagartos montanheses: réus da extirpação climática ou sobreviventes do aquecimento global? Departamento de Ecologia. Instituto de Biociências. USP. São Paulo.

PNPD 2018-2020: avanços na relação da tolerância térmica com a distribuição, biologia e vulnerabilidade dos animais. Departamento de Fisiologia. Instituto de biociências. USP. São Paulo.

“Behavioral thermoregulation responses to dehydration differ between vertebrates and invertebrates”. 8th international symposium on the environmental physiology of ectotherms and plants. Buenos Aires. Argentina.

**2018**

Interactions of morphology, behavior and color on escape success to visually guided predation. International Workshop on Visual Ecology. São Paulo. Brazil.

Evaluating parameters of thermal tolerance for climatic vulnerability forecasting. Organism-Environment interactions: timing plasticity and metabolic adjustments. São Paulo. Brazil.

**2017**

Linking thermal tolerance and water loss in lizards. XI Latinamerican Herpetology Congress. Equador.

**2016**

Integrating patterns at the individual, population and species level during the evolution of snake-like lizards. VIII World herpetology congress, Symposium: How Lizards Turn into Snakes: Combining Fossils,Phylogeny, Function, Genetics, Development, Morphology, and Ecology Huangzhou, China.

The voluntary thermal maximum: a forgotten thermal threshold with a much greater ability to detect climatic impacts on lizards. VIII World herpetology congress, Symposium: Huangzhou, China.

**2015**

Informando medidas de conservação face ao aquecimento climático. Onde os lagartos persistirão? Universidade Eduardo Mondlane. Maputo. Mozambique.

**2014**

Coevolution of body form and geographic range size in lizards from two continents. Network for Neotropical biogeography. Bogotá.

**2012**

Why has a trait evolved multiple times? Gymnopthalmini lizards provide an answer. VII World Congress of herpetology. Vancouver.

**2011**

Três coisas importantes sobre serpentes que você deveria saber. Semana estendida de ciência e tecnologia. USP.

Medidas de produtividade para taxonomistas: podemos melhorá-las? Seminários do Departamento de zoologia. USP.

**2009**

A relação das características da comunidade com gradientes de vegetação: lagartos da Mata Atlântica no nordeste do Brasil. Palestras do Instituto Butantan, São Paulo, Brasil.

Morfologia e hábitos de lagartos de hábitats quentes e secos: evidencias de adaptação? IV Congresso Brasileiro de Herpetologia, Pirenópolis, Minas Gerais, Brasil.

Evolution of environmental niche of Gymnophtalmini lizards through distribution modelling. Serra Bonita International Workshop on Distribution Modeling and Biogeography. Camacan, Brasil.

**2008**

Nos bastidores dos estudos ecofísiológicos. Semana da biologia, USP.

**2006**

Inventários de fauna no estado da Bahia: “*desiderata*”, estado atual e perspectivas. Semana da Biologia, UFBA.

POSTERS

**2019.**

Dantas, P. Reis. C.,M. **Camacho**. A., G. Effects of internal and external medium on the thermoregulation of *Pachygrapsus transversus.* XX Marine Biology Symposium
CEBIMar/USP.

Lima,C.S, Helene A., F., **Camacho** A., G. Factors affecting heat tolerance in leaf cutting ants. ISEPEP 8. Buenos Aires.

Lima,C.S, Helene A., F., **Camacho** A., G. How leaf cutting ants cope with climate changes? Behavioral and physiological evidences. USP International Symposium
of Undergraduate Research. São paulo.

**2018**

C.S. Lima, Helene. A.F. **Camacho** A.G. New method to evaluate how small arthropods behaviorally adjust their physiological constraints to temperature rises. Organism-Environment interactions: timing plasticity and metabolic adjustments. São Paulo. Brazil.

**2017**

**Camacho. A.** A method for comparative studies of geographic range size under high phylogenetic and biogeographic uncertainty. XI Latin American Congress of herpetology. Quito, Equator.

**Camacho** A. G., Angilletta jr. M, Levy, O. Boosting our power to detect thermal vulnerability. European conference on biodiversity and health in the face of climate change: challenges, opportunities and evidence gaps. Bonn. Germany.

**2012**

**Camacho**, A.G., Grizante, M. B., Recoder, R. S., Pavao, R., Yamanouchi, a. T., pinto, a. C. B. C. F., Kholsdorf, T., Navas,C.I., Rodrigues, M. T. . Why does a trait evolve multiple times? Gymnophthalmini lizards point to an answer. In: The world congress of herpetology 7, 2012, Vancouver. Annals of the World Congress of Herpetology 7.

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