

CV for
BARRY R. SINERVO
Professor of Ecology and Evolutionary Biology
Department of Ecology and Evolutionary Biology
Coastal Biology Building, Coastal Sciences Campus
University of California, Santa Cruz, CA 95064

EMPLOYMENT

2015- Director, Institute for the Study of the Ecological and Evolutionary Impacts of Climate, across nine University of California Campuses and the Natural Reserve System, UCOP
2017- Full Professor, Level VIII, University of California, Santa Cruz
2014-2017 Full Professor, Level VII, University of California, Santa Cruz
2010-2014 Full Professor, Level VI, University of California, Santa Cruz
2008-2010 Full Professor, Level IV, University of California, Santa Cruz
2007- Affiliated faculty, Computer Science and Engineering, UC Santa Cruz
2005- Adjunct faculty, Digital Art and New Media, UC Santa Cruz
2003-2007 Full Professor, Level III, University of California, Santa Cruz
2003-2007 Full Professor, Level II, University of California, Santa Cruz
2001-2003 Full Professor, Level I, Ecology and Evolutionary Biology, University of California, Santa Cruz
1998-2001 Associate Professor of Ecology and Evolutionary Biology, University of California, Santa Cruz
1997-1998 Assistant Professor of Biology, University of California, Santa Cruz
1992-1997 Assistant Professor of Biology, Indiana University
1992-1993 Research Scientist III, Department of Zoology, University of Washington, Seattle, WA
1990-1992 Research Associate, Department of Zoology, University of Washington, Seattle, WA
1988-1990 Research Fellow, Miller Institute for Basic Research in Science, University of California, Berkeley

EDUCATION

1988 University of Washington, Seattle, WA, Ph.D., Zoology
1982 Dalhousie University, Halifax, Nova Scotia, Canada,
Combined Honors BSc in Biology/Mathematics (First Class Honors, and University Medal)

HONORS and AWARDS

2018 Visiting Professor, University of Pau, France (1 month summer)
2018 Visiting Professor, University of Toulouse, France (1 month summer)
2016 International Collaboration Award, Chinese Herpetological Society
2015-2019 Presidential Research Catalyst Award to build an UC-wide Climate Change Institute
2013-2017 Special Visiting Professor, CNPq, University of Brasilia, Brazil (hosted by G. Colli)
2013 Awarded Best Paper in *Copeia*, (co-recipients with A. Corl & L. Lancaster)
2012 The Patagonian lizard *Phymaturus sinervoi*, a newly described species, was named in my honor
2010 Professor of Toulouse, Université Paul Sabatier - Toulouse III, France (3 months summer)
2008, May-Aug Research Scientist, CNRS (Centre Nationale pour les Recherche Scientifique) Moulis, France
2007 Professor of Toulouse, Université Paul Sabatier - Toulouse III, France (3 months summer)
2004 Visiting Professor, Natural History Museum, Paris, France (3 months summer)
2004 Awarded Best Paper in *The American Naturalist*, (co-recipients with R.B. Huey & P.E. Hertz).
2003 Visiting Professor, Paris University (2 months summer)
2001 CNRS Summer Professorship, CNRS, Paris (3 months summer)
2000 Elected Member, California Academy of Sciences
1992 Dobzhansky Prize, Society for the Study of Evolution
1989 American Society of Naturalist Young Investigator Prize
1988-1990 Miller Research Fellow, Miller Institute for Basic Research in Science, UC Berkeley.
1982-1986 1967 Science Scholar, Natural Sciences Engineering and Research Council of Canada (NSERC),

1982 to Study with Montgomery Slatkin for a PhD at the University of Washington, Seattle, WA. Commonwealth Scholarship to study in Essex with Brian Charlesworth and John Maynard Smith, which I declined.
Annual Fund Fellowship, University of Washington
University Medal in Biology, Dalhousie University
Graduated with First Class Honours, HBSc. in Double Major in Biology and Mathematics, Dalhousie University

1981 G.S. Burke Scholarship in Biology, Dalhousie University

1980-1982 Undergraduate Research Awards (3 awards – Summer Research – 1980, 1981, 1982), NSERC

1978-1981 Scholarships in Biology (4 scholarships awarded), Dalhousie University, Halifax, Nova Scotia

1978 Ontario Scholar, Ontario

1978 Gold Medal Winner, Port Arthur Collegiate Institute

GRANTS

Grants Received by collaborators in the last 3 years in which as a listed collaborator Sinervo is making key contributions in modeling and in field expeditions to instrument and measure ecophysiology of taxa (Total Award Amounts 2012-2018 = US\$ 2,324,537 [Direct Costs]), funding during the last 3 years are denoted by an *. Here, I do not include funding that students acquired as Scholarships to visit my lab, but those are noted under graduate training.

***Argentina:** Conicet DNI 16370462 (2018-2022) Efectos del Cambio Climático en Lagartos de la Familia Liolaemidae de Patagonia y Los Andes Centrales, PI Nora Ibargüengoyatía, US \$500,000.

***France:** with Frank D'Amico, University of Pau, **Sentinelles du climat:** 6-years (2016-2021) multi-partner, multi-funded and multi-task (research, management & communication) programme on climate change and biodiversity in region Nouvelle-Aquitaine; Partners (Scientific, technical and media): Université Pau et Pays de l'Adour, Université de Bordeaux, Conservatoire Botanique national sud-atlantique, Conservatoire d'espaces naturels d'Aquitaine, INRA-Biogéco, Bureau d'études DGE, Cistude Nature; Funding agencies:

- Europe FEDER,
- Région Nouvelle Aquitaine,
- Conseil Départemental de la Gironde
- Conseil Départemental des Pyrénées Atlantiques.

***Uruguay:** Arley Camargo (PI)

***Chile:** 2. Fondecyt 1150029 (2015 - 2018), Unraveling the impact of global change drivers on Chilean amphibians: Emerging diseases, land use-change and climate warming, PI: Leo Bacigalupe, US\$310,000,

***Spain:** "Extinction Risk in Andean Species of Ectotherms: a multifactorial assessment focused on endemic Amphibians". (2015-2018) Agencia Estatal Consejo Superior de Investigaciones (CISC), PI: Ignacio De la Riva, Total Award: 105,000 EUR = US\$137,550.

***Spain:** "Influencia de Variables Climáticas Sobre la Incidencia de Enfermedades parasitarias" (2016-2019) Agencia Estatal Consejo Superior de Investigaciones (CISC), PI: Santiago Merino Rodríguez, Total Award: 94,000 EUR = US\$106,464.

***Germany:** Tracking the evolution of thermal niches in Palaearctic lacertid lizards (2015-2018). Funding agency: German Research Foundation (DFG). PI: J. Mueller, Museum für Naturkunde, EUR 162 000 = US\$212,220

***Germany:** Tracking the evolution of thermal niches in Palaearctic lacertid lizards (2015-2018). Funding agency: German Research Foundation (DFG). Miguel Vences, Technical University of Braunschweig, EUR 184,225 = \$243,880

Brazil: 1. Quantificação dos riscos de extinção induzida pelo clima em anfíbios, lagartos e plantas do Brasil. Chamada Nº 71/2013 Bolsa Pesquisador Visitante Especial - PVE - MEC/MCTI/CAPES/CNPq/FAPs / Linha 2 - Bolsa Pesquisador Visitante Especial - PVE. PI: Guarino R. Colli (UnB). Valor: R\$339,465.62=US\$141,443.

Brazil: 2. Biodiversity and climate change in the ‘Arc of Deforestation’ of Brazilian Amazon. Partnerships for Enhanced Engagement in Research (PEER) Science Program, Cycle 3. PI: Guarino R. Colli (UnB). Valor: US\$329,650.00.

Brazil: 3. Biodiversidade e mudanças climáticas no "Arco do Desmatamento" da Amazônia Brasileira. Apoio a Projetos de Pesquisa / MCTI/CNPQ/Universal 14/2014 - Faixa C - até R\$ 120.000,00. PI: Guarino R. Colli (UnB). Valor: R\$120,000.00=US\$50,000.

Brazil: 4. Auxílio à pesquisa obtido no Edital Universal MCT/CNPq 14/2012, processo No. 472287/2012-5 para o projeto Risco de Extinção de Lagartos ameaçados na Costa Leste do Brasil: Ligando Mudanças Climáticas Globais, Ecologia Térmica, Metais Pesados e a Genética para a Conservação das Espécies. Início: 2013 – 2015, PI: Carlos Frederico Duarte Rocha, Award Amount: R\$ 59,929.52 = \$US24,970.

Brazil: 5. Auxílio via taxa de bancada da FAPERJ no Programa Cientistas do Nosso Estado, Processo E-26/102.765/2012 (Cem mil e oitocentos reais) para período de 36 meses de desenvolvimento do Projeto Anfíbios e répteis endêmicos e ameaçados de extinção no estado do rio de janeiro: ocorrência, distribuição geográfica atual, estoques populacionais e status de conservação. 2013-2015 (Auxílio FAPERJ Programa Cientistas do Nosso Estado, Processo E-26/102.404/2009). FAPERJ = Fundação de Amparo à Pesquisa do Estado do Rio de Janeiro, PI: Carlos Frederico Duarte Rocha, Award Amount: R\$ 100.800,00 = \$US42,000.

Brazil: 6. Auxílio à pesquisa obtido no Edital Universal 2010 do CNPq, processo No. 470265/2010-8, para o projeto, através do para o Projeto Mudanças no Nicho térmico atual e no habitat de lagartos de restinga *Liolaemus* e *Cnemidophorus* ameaçados de extinção estão afetando os seus estoques populacionais? Período: 2011-2012, PI: Carlos Frederico Duarte Rocha, Award Amount: R\$ 39.262,00 = \$US16,359.

Chile: 1. Fondecyt 1120461 (2012 - 2014), Predicting distributional shifts in a warming climate: Natural selection, phenotypic plasticity and niche models, PI: Leo Bacigalupe, US\$210,000.

Grants Awarded to Sinervo as PI or co-PI (including 16 major NSF grants – continuous NSF funding since 1989), (Total Award Funding research from fall 2016-2019: \$6,964,656), submitted grants are not listed:

Grants Awarded (funding during the review period Fall 2016 – summer 2019 denoted by *):

2019*	National Geographic Society, Ray Huey, Barry Sinervo and Donald B. Miles, Evaluating climate-forced extinctions of Kgalagadi (Kalahari) lizards, (\$20,000)
2018*	Augmented reality visualizations of climate change impacts. Grant to develop outreach tools for kids and the public to visualize climate change impacts with ISEECI research with augmented reality, and in collaboration with Underground Engine, Santa Cruz (\$15,000, VC Office of Research UC Santa Cruz).
2018*	Visiting Professor, Pau (4000 Euros = \$5500), Summer of 2018, Extinctions of Western Pyrenean lizards under climate change.
2018*	Visiting Professor, Toulouse (4000 Euros = \$5500), Summer of 2018, Extinctions of Eastern Pyrenean lizards under climate change.
2017*	UC Mexus, PI-Sinervo (co-PIs: Mendez, UNAM), Extinction risk assessment under climate change of Mexican salamanders: the iconic Axolotl and related <i>Ambystoma</i> species of Mexico and Southwest, \$25,000
2017*	Supplement to National Science Foundation, “COLLABORATIVE RESEARCH: Quantifying climate-forced extinction risks for lizards, amphibians, fishes, and plants” Sinervo Lead PI (co-PI with Sites, Bauer, Miles, Pittermann) Total Award: \$20,000.
2015-2019*	FSML grant, PI- Sinervo (co-PIs: Fox and Fenwick, UCSC; Mazer, UCSB; Whipple, Flikkema, Northern Arizona University). Collaborative Proposal: Ecophysiological Instruments for Measuring Biotic Climate Impacts Across Western Field Stations, Total Request: \$444,961.
2015-2017*	UC Presidential Initiative for Mexican Research, Sinervo is one of several collaborators assembled by Edward J. Taylor, UC Davis. Sinervo is estimating “Biotic Range Shifts and Reptile

Extinctions". University of California Office of the President, UC Mexico Initiative, Working Group on Environment (\$30,000). PI: Barry Sinervo

2015-2019* Presidential Research Catalyst Award to build an UC-wide Climate Change Institute to build a Climate Change Observatory across the UC system and UC Natural Reserve System, Sinervo Lead PI, L. Fox co-PI, with 18 other faculty across the UC System. Total Request: \$1,900,000.

2015-2019* National Science Foundation. "Collaborative Research: Responses of Desert Endotherms to Rapid Recent Climate Change", Beissinger PI (co-PIs: Sinervo, Wolf, Hargrove) Total Award: \$1,142,754.

2015-2017* Desert Landscape Conservation Cooperative award: "Sensitivity and Vulnerability of Desert Amphibians and Reptiles to Climate Change: Qualitative, Mechanistic and Classical Species Distribution Models", Total Award: \$154,941.

2014-2017* Special Visiting Professorship, CNPq Brazil (w/ G. Colli, University of Brasilia): Quantifying climate-forced extinction risks for lizards, amphibians and plants of Brazil (\$75,000 + postdoctoral and graduate fellowships for 3 years), Total Award: \$141,443 (cross-listed above).

2013-2018* National Science Foundation, "COLLABORATIVE RESEARCH: Quantifying climate-forced extinction risks for lizards, amphibians, fishes, and plants" Sinervo Lead PI (co-PI with Sites, Bauer, Miles, Pittermann) Total Award: \$2,000,000.

2015 Research Award for Physiological Species Distribution Models, Department of Mathematics, co-PI with Frank D'Amico. Total Award: \$4000.

2013-2016 National Science Foundation, "The Influence of Temporal and Spatial Scales on Drivers of Host-Parasite Interactions" (Lead PI: Jason Rohr, co-PI Sinervo) \$993,000.

2013-2014 UCOP Opportunity Fund, "An Institute for the Biotic Effects of Climate: Developing the foundation for cross-disciplinary links in the UC system", Sinervo Lead PI (co-PI with L. Fox): \$20,000.

2012-2016 Extinction risk and habitat niche modeling for the blunt-nosed leopard lizard. Bureau of Land Management-Nature Conservancy \$125,000 (PI: Sinervo, co-PI: Cameron Barrows, UC Riverside)

2012 Assessment of physiological impacts of volcanic ash on *Phymaturus* lizards, National Geographic Society, \$10,000 (N. Ibargüengoytia, PI, co-PIs: Sinervo, Miles, Scolaro, Mendez De la Cruz)

2012-2016 National Science Foundation, REU Sites grant "Biological impacts of climate change: testing hypotheses with collections and long-term data (co-PI with Laurel Fox), \$228,118 (March 2012-2015).

2011 NSF Research Experience for Undergraduates (RET), Supplement to "Effect of Light and Temperature Cycles and Climate Change on Adaptation in Lizards", \$4,096.

2011 NSF Research Experience for Teachers (RET), Supplement to "Effect of Light and Temperature Cycles and Climate Change on Adaptation in Lizards", \$15,000.

2010-2013 National Science Foundation, "Effect of Light and Temperature Cycles and Climate Change on Adaptation in Lizards" (co-PI with D. Paranjpe, D. B. Miles and P. A. Zani) \$476,101.

2010-2011 National Science Foundation, US-Germany DDEP: Evolutionary consequences of Cenozoic climate change on African reptile diversification (PhD research funding for C. Hipsley), \$14,986.

2009-2012 National Science Foundation, "The role of the hippocampus in alternative territorial strategies of the side-blotched lizard" (co-PI with L. Ladage and V. V. Pravosudov) \$399,000.

2007 Grant from the Committee on Research, UCSC, "Evolution of Altruism and Cooperation in the Genus *Sceloporus*" (co-PI with Grant Pogson), \$19,900.

2007 UC Mexus Research Grant, "Evolution of Color Polymorphisms and Alternative Reproductive Strategies in the Genus *Sceloporus*", \$15,000.

2005-2010 National Science Foundation LTREB, "Relatedness Asymmetries, Antagonistic Natural Selection and Nonmendelian Inheritance in a Natural Population of Lizards" (co-PI with A. McAdam) \$298,998.

2005 REU Supplement to "Correlational selection and the evolution of alternative male strategies" \$6,000

2004 National Geographic Society. Speciation and color morphs of lizards \$20,050

2004 REU Supplement to "Adaptive Color Variation in the *Ensantina* "Ring Species" Complex: Implications for Ecological Speciation and Mimicry" (co-PI with S. Kuchta), \$9,000

2004 National Science Foundation Dissertation Improvement Grant awarded to A. Corl, \$10,000

2004 National Science Foundation Dissertation Improvement Grant awarded to B. Weaver, \$10,000

2003 France (CNRS)-Berkeley Fund. Research Grant to B. Sinervo and M. Hochberg \$10,000

2003-2006 National Science Foundation Research Grant, "Adaptive Color Variation in the *Ensatina* "Ring Species" Complex: Implications for Ecological Speciation and Mimicry" (co-PI with S. Kuchta), \$194,000

2003 Centre Nationale pour Les Recherches Scientifiques (Paris and Montpellier) – Professorship for B. Sinervo: \$5,000.

2003 REU Supplement to "Correlational selection and the evolution of alternative male strategies" \$6,000

2003 REU Supplement to "Density-dependent natural selection and selection on offspring size" \$6,000

2002 Centre Nationale pour Les Recherches Scientifiques (Paris and Montpellier) – Research Funds to B. Sinervo: \$3,000.

2002-2004 National Science Foundation Research Grant, "Correlational selection and the evolution of alternative male strategies" (Co-PI with L. Hazard, D. Costa, D.B. Miles) \$226,000.

2001 Centre Nationale pour Les Recherches Scientifiques (Paris) – Visiting Scholar Fellowship to B. Sinervo: \$7,700.

2000-2004 National Science Foundation, "Intrinsic Cycles and Density and Frequency-Dependent Selection on Egg Size", \$276,001.

2000-2001 National Science Foundation Dissertation Improvement Grant awarded to R. G. Calsbeek, \$10,000

2000 Technology Improvement Grant, University of California, Santa Cruz, \$7,500 with \$7,500 matching funds from the Biology Department for a total of \$15,000.

1999-2000 National Science Foundation Supplement to Res. Grant, "A virtual reality simulation for the study of animal behavior," \$50,000

1999 REU Supplement to "The rock-paper-scissors game and the evolution of alternative male strategies," \$5,000

1996-1999 National Science Foundation Res. Grant, "The rock-paper-scissors game and the evolution of alternative male strategies," \$168,000

1998 Equipment Grant for matching funds to NSF supplement, Division of Natural Science, University of California, Santa Cruz, \$24,000

1996-1998 National Science Foundation Res. Grant, "The application of junctions theory to the analysis of sunflower hybrids," (w/L.H. Rieseberg), \$120,000

1996-1999 National Science Foundation Dissertation Improvement Grant awarded to W.A. Frankino, \$10,000

1996-1998 National Science Foundation Res. Grant, "Character displacement as revealed by natural selection experiments," \$135,000

1995-1999 Participated in the successful Renewal of Research Training Grant submitted to NSF to fund the Center for the Integrative Study of Animal Behavior.

1993-1996 National Science Foundation Research Grant; "Costs of reproduction in the wild: an experimental test," \$180,000

1993 Research Fund, Indiana University, \$3,000

1992 National Science Foundation, REU Supplement to "An experimental test of Lack's Hypothesis," (CO-PI with R.B. Huey), \$8,000

1991 National Science Foundation, REU Supplement to "An experimental test of Lack's Hypothesis," (CO-PI with R.B. Huey), \$8,600

1990-1993 National Science Foundation Research Grant (CO-PI with R.B. Huey), "An experimental test of Lack's Hypothesis," \$225,000

1988-1990 Miller Institute for Basic Research in Science, University of California, Berkeley, \$60,500

1986 Grants-in-Herpetology, Society for the Study of Amphibians and Reptiles, \$430

Theodore Roosevelt Memorial Fund, American Museum of Natural History, \$750

1985 Theodore Roosevelt Memorial Fund, American Museum of Natural History, \$600

Gaige Fund, American Society of Ichthyology and Herpetology, \$800

Grants-in-Aid of Research, Sigma Xi, \$600

1984 Grants-in-Aid of Research, Sigma Xi, \$500
 1982-1986 NSERC Post graduate Fellowship, \$60,500
 1980-1982 Undergraduate Research Awards (3), NSERC, \$7,200

PUBLICATIONS: 170 Published peer-reviewed articles (153 published journal articles, 17 book chapters, 2 books). 32 New publications since 2015 (last submitted review) are denoted by an *.

*153) Diele-Viegas, L.M., Menezes, V.A., Sinervo, B., Miles, D. B. and C. F. Duarte Rocha. 2019. Climate change implications on thermal biology and vulnerability of the African hallow in South America, the endemic skink *Trachylepis atlantica*. *Biol. Cons.*, submitted.

*152) Hazard, L., Nagy, K. A., Miles, D. B., Costa, D. & Sinervo, B. 2019. Integration of genotype, physiological performance, and survival in a lizard (*Uta stansburiana*) with alternative mating strategies. *Physiological and Biochemical Zoology*, **in press**.

*151) Stewart, J. A. E., Germano, D. J., Richmond, J. Q., Butterfield, H. S., Tennant, E. N., Westphal, M. F., & Sinervo, B. Climate niche contraction, habitat restoration opportunities, and conservation biology in California's San Joaquin Desert, *PloS One*, **accepted** (2019).

*150) Rohr, J.R., D. J. Civitello, J.M. Cohen, E. A. Roznik, **B. Sinervo**, and A.I Dell. 2019. Reply to Einem et al. on "The complex drivers of thermal acclimation and breadth in ectotherms". *Global Change Biology*, **in press**.

*149) Augusto-Prevedello, J., G. R. Winck, M.W. Weber, E. Nichols, & **B. Sinervo**. 2019. Impacts of forestation and deforestation on local temperature across the globe. *PLoS-One*: **in press**.

*148) Robart, Ashley and **Sinervo, B.** 2019. Females increase parental care, but not fecundity, when mated to high quality males in a biparental fish. *Animal Behavior*, doi.org/10.1016/j.anbehav.2018.11.012

*147) Gilman, C., Corl, A., **Sinervo, B.**, Irschick, D. 2018. Genital morphology associated with mating strategy in the polymorphic lizard, *Uta stansburiana*. *Journal of Morphology*, DOI: 10.1002/jmor.20930

*146) Becker, L.A., Boretto, J.M., Cabezas-Cartes, F., Márquez, S., Kubisch, E., Scolaro, J.A., **Sinervo, B.** & Ibargüengoytia, N.R., 2019. An integrative approach to elucidate the taxonomic status of five species of *Phymaturus* Gravenhorst, 1837 (Squamata: Liolaemidae) from northwestern Patagonia, Argentina. *Zoological Journal of the Linnean Society*, **185**: 268–282.

*145) Robart, A.R. and **Sinervo, B.**, 2018. Parental response to intruder females altered by ornamentation and mate quality in a biparental fish. *Behavioral Ecology*, **29**: 701-710.

144) Bacigalupe, L., Gaitan-Espitia, J., Barria, A., Gonzalez, A., Ruiz, M., Trinder, M., **B. Sinervo*** (2018) Natural selection on plasticity of thermal traits in a highly seasonal environment. *Evolutionary Applications*: DOI: 10.1111/eva.12702 (*Bacigalupe and Sinervo contributed equally to the publication)

*143) **Sinervo, B.** Extinction risk of reptiles and amphibians under climate change, Editor R. Landridge, *IVth CA climate assessment, State of California*, <http://www.climateassessment.ca.gov/regions/docs/20180928-CentralCoast.pdf>

*142) Megía-Palma, R., Paranjpe, D., Reguera, S., Martínez, J., Cooper, R.D., Blaimont, P., Merino, S. and **Sinervo, B.**, 2018. Multiple color patches and parasites in *Sceloporus occidentalis*: Differential relationships by sex and infection. *Current Zoology*, doi: 10.1093/cz/zoy007

*141) **Sinervo, B.**, Miles, D.B., Wu, Y., Méndez-De La Cruz, F.R., S. Kirchhof, and Qi, Y. 2018. Climate change, thermal niches, extinction risk and maternal-effect rescue of toad-headed lizards, *Phrynocephalus*, in thermal extremes of the Arabian Peninsula to the Qinghai–Tibetan Plateau. *Integrative Zoology* doi:

- *140) Rohr, J.R., D. J. Civitello, J.M. Cohen, E. A. Roznik, **B. Sinervo**, and A.I Dell. 2018. The complex drivers of thermal acclimation and breadth in ectotherms. *Ecology Letters* 21: 1425–1439.
- *139) Corl, A., Bi, K., Luke, C., Challa, A.S., Stern, A.J., **Sinervo, B.** and Nielsen, R., 2018. The Genetic Basis of Adaptation following Plastic Changes in Coloration in a Novel Environment. *Current Biology*, <https://doi.org/10.1016/j.cub.2018.06.075>.
- *138) Dupoué, A., Rutschmann, A., Le Galliard, J.F., Clobert, J., Blaimont, P., **Sinervo, B.**, Miles, D.B., Haussy, C. and Meylan, S., 2018. Reduction in baseline corticosterone secretion correlates with climate warming and drying across wild lizard populations. *Journal of Animal Ecology*, DOI: 10.1111/1365-2656.12843.
- *137) Pontes-da-Silva, E., Magnusson, W.E., **Sinervo, B.**, Caetano, G.H., Miles, D.B., Colli, G.R., Diele-Viegas, L.M., Fenker, J., Santos, J.C. and Werneck, F.P., 2018. Extinction risks forced by climatic change and intraspecific variation in the thermal physiology of a tropical lizard. *Journal of thermal biology*, 73: 50-60.
- *136) Diele-Viegas, L.M., Vitt, L.J., **Sinervo, B.**, Colli, G.R., Werneck, F.P., Miles, D.B., Magnusson, W.E., Santos, J.C., Sette, C.M., Caetano, G.H. and Pontes, E., 2018. Thermal physiology of amazonian lizards (reptilia: Squamata). *PloS one*, 13(3), p.e0192834.
- *135) Aburto-Oropeza, O., A. F. Johnson, M. Agha, E. B. Allen, M. F. Allen, J. A. González, D. M. Arenas Moreno, R. Beas-Luna, S. Butterfield, G. Caetano, J. E. Caselle, G. C. Gaytán, M. C. N. Castorani, L. A. Cat, K. Cavanaugh, J. Q. Chambers, R. D. Cooper, N. Arafteh-Dalmau, T. Dawson, A. D. de la Vega Pérez, J. F. C. DiMento, S. I. D. n. Guerrero, M. Edwards, J. R. Ennen, H. Estrada-Medina, N. Fierro-Estrada, H. Gadsden, P. Galina-Tessaro, P. M. Gibbons, E. V. Goode, M. E. Gorris, T. Harmon, S. Hecht, M. A. Heredia Frago, A. Hernández-Solano, D. Hernández-Cortés, G. Hernández-Carmona, S. Hillard, R. B. Huey, M. B. Hufford, G. D. Jenerette, J. Jiménez-Osornio, K. J. López-Nava, R. A. Lara Reséndiz, H. M. Leslie, A. ópez-Feldman, V. c. H. Luja, N. M. n. Méndez, W. J. Mautz, J. Medellín-Azuara, C. Meléndez-Torres, F. R. M. n. de la Cruz, F. Micheli, D. B. Miles, G. Montagner, G. Montañó-Moctezuma, J. Müller, P. Oliva, J. A. Ortinez Álvarez, J. P. Ortiz-Partida, J. Palleiro-Nayar, V. c. H. Páramo Figueroa, P. E. Parnell, P. Raimondi, A. Ramírez-Valdez, J. T. Randerson, D. C. Reed, M. Riquelme, T. R. Torres, P. C. Rosen, J. Ross-Ibarra, V. Sánchez-Cordero, S. Sandoval-Solis, J. C. Santos, R. Sawers, **B. Sinervo***, J. W. Sites, O. Sosa-Nishizaki, T. Stanton, J. R. Stapp, J. A. E. Stewart, J. Torre, G. Torres-Moye, K. K. Treseder, J. Valdez-Villavicencio, F. I. Valle Jiménez, M. Vaughn, L. Welton, M. F. Westphal, G. Woolrich-Piña, A. Yunez-Naude, J. A. Zertuche-González and J. E. Taylor. 2018. Harnessing cross-border resources to confront climate change. *Environmental Science & Policy*, 87: 128-132.
- * Authors listed alphabetically – Sinervo's contribution was the first authorship of online paper, which is referenced for all the new analysis of North American extinction projections in Aburto-Oropeza et al., above:
- *134) **Sinervo, B.**, R. A. Lara Reséndiz, D. B. Miles, J. E. Lovich, J. R. Ennen, J. Müller, R. D. Cooper, P. C. Rosen, J. A. Stewart, J. C. Santos et al. (2017). "Climate Change and Collapsing Thermal Niches of Mexican Endemic Reptiles." Posted on eScholarship, UC, <https://escholarship.org/uc/item/4xk077hp>
- *133) Megía-Palma, R., Martínez, J., Paranjpe, D., D'Amico, V., Aguilar, R., Palacios, M.G., Cooper, R., Ferri-Yáñez, F., **Sinervo, B.** and Merino, S., 2017. Phylogenetic analyses reveal that *Schellackia* parasites (Apicomplexa) detected in American lizards are closely related to the genus *Lankesterella*: is the range of *Schellackia* restricted to the Old World?. *Parasites & vectors*, 10(1), p.470.
- *132) Moulherat, S., A. Chaine, A. Mangin, F. Aubret, **B. Sinervo**, and J. Clobert, 2017. The roles of plasticity versus dominance in maintaining polymorphism in mating strategies. *Scientific reports*, 7(1), p.15939.
- *131) Crow, S., M. Pawlowski, M. Meki, L. LaDage, T.C. Roth, I.I., C.J. Downs, **B. Sinervo**, V.V. Pravosudov, L. Hall, G. Kalka, and D. Magnani. 2017. What causes lizards' brains to change size?. sciencejournalforkids.org *Évolution*.

- *130) Ladage, L.D., T.C. Roth, C.J. Downs, B. Sinervo, B. and V.V. Pravosudov, V.V. 2017. Increased testosterone decreases medial cortical volume and neurogenesis in territorial side-blotched lizards (*Uta stansburiana*). *Frontiers in neuroscience* 11: 97.
- *129) Megía-Palma, R., Paranjpe, D., Reguera, S., Martínez, J., Cooper, R.D., Blaimont, P., Merino, S. and **Sinervo, B.**, 2018. Multiple color patches and parasites in *Sceloporus occidentalis*: Differential relationships by sex and infection. *Current Zoology*, doi: 10.1093/cz/zoy007
- *128) Ennen, J.R., Lovich, J.E., Averill-Murray, R.C., Yackulic, C.B., Agha, M., Loughran, C., Tennant, L. and **Sinervo, B.**, 2017. The evolution of different maternal investment strategies in two closely related desert vertebrates. *Ecology and Evolution*, 7:3177-3189.
- *127) Fernández, J.B., Bastiaans, E., Medina, M., De la Cruz, F.R.M., **Sinervo, B.** and Ibargüengoytia, N.R., 2018. Behavioral and physiological polymorphism in males of the austral lizard *Liolaemus sarmientoi*. *Journal of Comparative Physiology A*, 204:219-230.
- *126) Moulherat, S., A. Chaine, A. Mangin, F. Aubret, **B. Sinervo**, J. Clobert. The roles of versus dominance in maintaining polymorphism in mating strategies. 2017. Scientific Reports 7: 15939 | DOI:10.1038/s41598-017-15078-1.
- *125) Kirchoff, S., R. Hetem, H. Lease, D. Mitchell, D. B. Miles, J. Mueller, **B. Sinervo**, T. Wassenaar, I. W. Murray. 2017. Thermoregulatory behaviour and high thermal preference buffer impact of climate change in a Namib Desert lizard. *Ecosphere* 8, e02033.
- *124) Friedman, D., J. Magnani, D. Paranjpe, **B. Sinervo**. 2017. Evolutionary games, climate and the generation of diversity. *PloS one* 12, e0184052.
- *123) Vicenzi, N., V. Corbalán, D. B. Miles, **B. Sinervo**, N. Ibargüengoytia. 2017. Range increment or range detriment? Predicting potential changes in distribution caused by climate change for the endemic high-Andean lizard *Phymaturus palluma*, *Biol. Cons.* 206:151-160.
- *122) LaDage, L.D., T.C. Roth, **B. Sinervo**, and V.V. Pravosudov, 2016. Environmental experiences influence cortical volume in territorial and nonterritorial side-blotched lizards, *Uta stansburiana*. *Animal behaviour*, 115: 11-18.
- 121) **Sinervo, B.** and A. Robart. 2016. "Mating Systems." In Oxford Bibliographies in Ecology. Ed. David Gibson. New York: Oxford University Press: DOI: 10.1093/OBO/97801998300600159.
- 120) Belasen, A. K. Brock, B. Li, D. Chremou, E. Valakos, P. Pafilis, **B. Sinervo** and J. Foufopoulos. 2016. Fine with heat, problems with water: microclimate alters water loss in a thermally adapted insular lizard. *Oikos*, 126:147-157.
- 119) Westphal, M., J. A. Stewart, E. N. Tennant, H. S. Butterfield, and **B. Sinervo**. 2016. Contemporary Drought and Future Effects of Climate Change on the Blunt Nosed Leopard Lizard. *PLOS ONE* DOI:10.1371/journal.pone.0154838.
- 118) Rutschmann, A., D. B. Miles, J.-F. Le Galliard, M. Richard, S. Moulherat, **B. Sinervo**, J. Clobert. 2016. Climate and habitat interact to shape the thermal reaction norms of breeding phenology across lizard populations. *Journal of Animal Ecology*: 85: 457-466. 10.1111/1365-2656.12473
- 117) Ibargüengoytia, N.R., F. Cabezas-Cartes, J. M. Boretto, C. Piantoni, E. L. Kubisch, M. S. Fernández, R. Lara-Resendiz, F. Mendez-de-la-Cruz, A. Scolaro, **B. Sinervo**. Impact of volcanic ash of the Puyehue-Cordón Caulle eruptions on running performance and body condition of *Phymaturus* lizards (Squamata: Liolaemidae) in Patagonia, Argentina. 2016. *Biol. J. Linn. Society* 118: 842-851. DOI: 10.1111/bij.12778

- 116) Kubisch, E.L., V. Corbalán, N.R. Ibargüengoytía, **B. Sinervo**. 2016. Local extinction risk by global warming of three species of lizards from Patagonia. *Canadian Journal of Zoology*: 94:49-59. [dx.doi.org/10.1139/cjz-2015-0024](https://doi.org/10.1139/cjz-2015-0024)
- 115) Haisten, D. C., D. Paranjpe, S. Loveridge, and **B. Sinervo**. 2015. Structural and pigmentary variation of the dermal chromatophores in a color polymorphic lizard. *Herpetologica*, 72:125-135. doi: 10.1655/HERPETOLOGICA-D-13-00091.
- 114) Megia-Palma, R. J. Martinez, I. Acevdeo, J. Martin, R. Garcia-Roa, J. Ortega, M. Peso-Fernandez, G. Albaladego, R. D. Cooper, D. A. Paranjpe, **B. Sinervo**, S. Merino. 2015. Phylogeny of the reptilian *Eimeria*: are *Choleoeimeria* and *Acroeimeria* valid generic names? *Royal Swedish Academy of Sciences* doi:10.1111/zsc.12126.
- 113) Agha, M., B. Augustine, J. E. Lovich, D. Delaney, B. Sinervo, M. O. Murphy, J. R. Ennen, J. R. Briggs, R. B. Cooper, S. J. Price. 2015. Using motion-sensor camera technology to infer seasonal activity and thermal niche of the desert tortoise (*Gopherus agassizii*). *Journal of Thermal Biology* 49-40: 119-126. <http://dx.doi.org/10.1016/j.jtherbio.2015.02.009>
- 112) Lara-Resendíz, R. A., H. Gadsden, P. C. Rosen, **B. Sinervo**, F. R. Méndez-De la Cruz. 2015. Thermoregulation of two sympatric species of horned lizards in the Chihuahuan Desert and their local extinction risk. *Journal of Thermal Biology* 48:1-10. <http://dx.doi.org/10.1016/j.jtherbio.2014.11.010>
- 111) San-Jose, L.M., Granado-Lorencio, F., Sinervo, B. and Fitze, P.S., 2013. Iridophores and not carotenoids account for chromatic variation of carotenoid-based coloration in common lizards (*Lacerta vivipara*). *The American Naturalist*, 181(3), pp.396-409.
- 110) Fitze, P.S., V. Gozalez-Jimena, L. M. San-Jose, B. Heulin, and **B. Sinervo**. 2014. Frequency-dependent sexual selection with respect to progeny survival is consistent with predictions from rock-paper-scissors dynamics in the European common lizard. *Ecology and Evolution* doi: 10.3389/fevo.2014.00077
- 109) Aerts, A., J. Broekaert, M. Czachor, M. Kunac, **B. Sinervo**, S. Sozzo. 2014. Quantum structure in competing lizard communities. *Ecological Modeling* 281: 38-51. <http://dx.doi.org/10.1016/j.ecolmodel.2014.02.009>
- 108) Paranjpe, D., D. Medina, E. Nielsen, R. D. Cooper, S. A. Paranjpe and **B. Sinervo**. 2014. Does thermal ecology influence dynamics of side blotched lizards and their micro-parasites? *Integrative and Comparative Biology* 54:108-117. doi:10.1093/icb/icu069
- 107) Lancaster, L., A. G. McAdam, C. Hipsley, and **B. Sinervo**. 2014. Frequency-dependent and correlational selection pressures have conflicting consequences for assortative mating in a color-polymorphic lizard, *Uta stansburiana*. *American Naturalist*: 184:188-197. DOI: 10.1086/676645
- 106) Bastiaans, E., G. Morinaga, J. G. Castañeda Gaytán, and **B. Sinervo**. 2014. Female preference for sympatric versus allopatric male throat color morphs in the mesquite lizard (*Sceloporus grammicus*) species complex *PLoS ONE* 9:e93197. <http://dx.doi.org/10.1371/journal.pone.0093197>
- 105) Ceia-Hasse, A., **B. Sinervo**, L. Vicente, and H. M. Periera. 2014. Integrating ecophysiological models into species distribution projections of European reptile range shifts in response to climate change. *Ecography* 37:1-10. doi: 10.1111/j.1600-0587.2013.00600.x
- 104) Boretto, J. M., F. Cabezas-Cartes, E. L. Kubisch, **B. Sinervo**, and N. R. Ibargüengoyatía. 2014. Changes in female body condition and reproduction in an endemic lizard, *Phymaturus spectabilis*, following the Puyehue volcanic ashfall event. *Herpetological Conservation and Biology*, 9:181-191.
- 103) Boretto, J. M., F. Cabezas-Cartes, F. Tappari, F. R. Méndez-De la Cruz, **B. Sinervo**, A. J. Scolaro and N. R. Ibargüengoyatía. 2014. Reproductive biology of *Phymaturus spectabilis* (Liolaemidae): Females skip reproduction in cold and harsh environments of Patagonia, Argentina. *Herpetological Conservation and Biology*, 9:170-180.
- 102) Bastiaans E., F. R. Méndez de la Cruz, K. Rodríguez Hernández, C. Flores Aguirre, **B. Sinervo**. 2013. Female Reproductive Investment in the Mesquite Lizard (*Sceloporus grammicus*) Species Complex (Squamata: Phrynosomatidae). *The Southwestern Naturalist* 58:335–343.
- 101) LaDage, L. D.; R. M. Maged, Roxolana, M. V. Forney, T. C. Roth II, **B. Sinervo**, V. V. Pravosudov, Vladimir V. 2013. Interaction between territoriality, spatial environment, and hippocampal neurogenesis in male side-

blotched lizards. *Behavioral Neuroscience* 127: 555-565. doi: 10.1037/a0032852

100) Paranjpe, D. A., E. Bastiaans, A. Patten, R. D. Cooper, and **B. Sinervo** 2013. Evidence of maternal effects on temperature preference in side-blotched lizards: implications for evolutionary response to climate change. *Evolutionary Ecology* doi: 10.1002/ece3.614.

99) San-Jose, L. M., F. Granado-Larencio, **B. Sinervo**, and P. Fitze. 2013. Iridophores and Not Carotenoids Account for Chromatic Variation of Carotenoid-Based Coloration in Common Lizards (*Lacerta vivipara*). *American Naturalist* 181:396-409.

98) Luja, V. H., **B. Sinervo** and R. Rodriguez-Estrella. 2013. Observaciones sobre la dieta de la culebra de agua *Thamnophis hammondi* en un oasis de Baja California Sur, México. *Revista Mexicana de Biodiversidad*, 84: 697-700, DOI: 10.7550/rmb.32185.

97) LaDage, L.D., T. C. Roth, A. M. Cerjanic, **B. Sinervo**, and V. V. Pravosudov. 2012. Spatial memory: are lizards really deficient? *Biol. Lett.* 2012 8, doi: 10.1098/rsbl.2012.0527

96) Corl, A., L. Lancaster and **B. Sinervo**. 2012. Rapid Formation of Reproductive Isolation between Two Populations of Side-Blotched Lizards, *Uta stansburiana*. *Copeia* 2012:593-602. **(Awarded Best Paper in Copeia, 2013 at the Joint Meetings of Ichthyology and Herpetology)**

95) Medina, M., A. Scolaro, F. R. Méndez De la Cruz, **B. Sinervo**, D. B. Miles, N. Ibarguengoytia. 2012. Thermal biology of genus *Liolaemus*: A phylogenetic approach reveals advantages of the genus to survive climate change. *Journal Thermal Biology*, 37: 579-586.

94) Vercken, E., **Sinervo, B.** and Clobert, J. 2012. The importance of a good neighbourhood: social environment and dispersal decisions in common lizards. *Behavioral Ecology*, 23: 1059-1067.

93) Davis Robosky AR, **A. Corl**, Y. Surget-Groba, H.E. Liwang, and **B. Sinervo**. 2012. Direct Fitness Correlates and Thermal Consequences of Facultative Aggregation in a Desert Lizard. *PLoS ONE* 7(7): e40866. doi:10.1371/journal.pone.0040866

92) Scoular, K. M., W. C. Caffry, J. L. Tillman, E. S. Finan, S. K. Schwartz, **B. Sinervo**, and P. Zani. 2011. Multiyear home-range ecology of common side-blotched lizards in Eastern Oregon with additional analysis of geographic variation in home-range size. *Herpetological Monographs* 25: 52-75.

91) Medina, M., **B. Sinervo**, and N. Ibarguengoytia 2011. Thermal relationships between body temperature and environment conditions set upper distributional limits on oviparous species. *J. Therm. Biol.* 36, 527-534.

90) **Sinervo B**, D. B. Miles, N. Martínez-Méndez, R. Lara-Resendiz, and F. R. Méndez-de-la-Cruz. 2011. Response to Comment on “Erosion of lizard diversity by climate change and altered thermal niches. *Science* 332:537-538.

89) Heulin, B., Y. Surget-Groba, **B. Sinervo**, D. B. Miles, and A. Guiller. 2010. Dynamics of haplogroup frequencies and survival rates in a contact zone of two mtDNA lineages of the lizard *Lacerta vivipara*. *Ecography* 34: 436-447.

88) Vercken, M., J. Clobert and **B. Sinervo**. 2010. Frequency-dependent reproductive success in female common lizards: a real-life hawk–dove–bully game? *Oecologia* 162: 49-58.

87) Camargo, A. R., **B. Sinervo**, and J. W. Sites Jr. 2010. Lizards as model organisms for linking phylogeographic and speciation studies. *Molecular Ecology* 17: 3250-3270.

86) Davis, A. A. Corl, Y. Surget-Groba and **B. Sinervo**. 2010. Convergent evolution of kin-based sociality in a lizard. *Proceedings of the Royal Society*, London B: doi:10.1098/rspb.2010.1703.

85) **Sinervo B**, F. R. Méndez-de-la-Cruz, D. B. Miles, B. Heulin, E. Bastiaans, M. Villagran-Santa Cruz, R. Lara-Resendiz, N. Martínez-Méndez, M. L. Calderón-Espinosa, R. N. Meza-Lázaro, H. Gadsden, L. J. Avila, M. Morando, I. J. De la Riva, P. Victoriano Sepulveda, C. F. Duarte Rocha, N. Ibarguengoytia, C. A. Puntriano, M. Massot, V. Lepetz, T. A. Oksanen, D. G. Chapple, A. M. Bauer, W. R. Branch, J. Clobert, J. W. Sites, Jr. 2010. Erosion of lizard diversity by climate change and altered thermal niches. *Science*, 324:894-899.

84) Lancaster, L. T., A. G. McAdam, and **B. Sinervo**. 2010. Maternal effects and body shape variation integrate alternative reproductive and antipredator strategies: Stocky is sneaky and lean is mean. *Evolution* doi:10.1111/j.

- 83) Corl, A., A. R. Davis, S. R. Kuchta, and **B. Sinervo**. 2010. Selective loss of polymorphic mating types is associated with rapid phenotypic evolution during morphic speciation *Proceedings of the National Academy of Sciences, USA* 107: 4294-4259.
- 82) Barker, F. K., M. Clamp, A. J. Crawford, R. Hanner, O. H. Hanotte, W. Johnson, J. McGuire, W. Miller, R. W. Murphy, W. J. Murphy, F. H. Sheldon, **B. Sinervo**, B. Venkatesh, E. O. Wiley, F. W. Allendorf, S. Baker, G. Bernardi, S. Brenner, J. Cracraft, M. Diekhans, S. Edwards, J. Estes, P. Gaubert, A. Graphodatsky, J. A. Marshall Graves, E. D. Green, P. Hebert, K. M. Helgen, B. Kessing, D. M. Kingsley, H. A. Lewin, G. Luikart, P. Martelli, N. Nguyen, G. Orti, B. L. Pike, D. M. Rawson, S. C. Schuster, H. Nicolás Seuánez, H. B. Shaffer, M. S. Springer, J. M. Stuart, E. Teeling, R. C. Vrijenhoek, R. D. Ward, R. Wayne, T. M. Williams, N. D. Wolfe, Y.-P. Zhang. 2009. Genome 10K: A Proposition to Obtain Whole Genome Sequence for 10,000 Vertebrate Species. *Journal of Heredity* 100: 659-674.
- 81) Svensson, E. I., A. G. McAdam, and **B. Sinervo**. 2009. Intralocus sexual conflict over immune defense and the resolution of gender load in a natural lizard population. *Evolution* 63: 3124-3135.
- 80) Corl, A., A. Davis, S. Kuchta, T. Comendant, and **B. Sinervo**. 2009. Alternative Mating Strategies and the Evolution of Sexual Size Dimorphism in the Side-Blotched lizard, *Uta stansburiana*: A Population-Level Comparative Analysis, *Evolution* doi:10.1111/j.1558-5646.2009.00791.x.
- 79) LaDage, L. D., B. J. Riggs, **B. Sinervo**, and V. V. Pravosudov. 2009. Dorsal cortex volume in male side-blotched lizards, *Uta stansburiana*, is associated with different space use strategies. *Animal Behaviour* 78: 91-96
- 78) Lancaster, L., Hipsley, C. and **Sinervo, B.** 2009. Female choice for optimal combinations of multiple male display traits increases offspring survival. *Behavioral Ecology* doi:10.1093/beheco/arp088.
- 77) Kuchta, S., Krakauer, A. H. and **Sinervo, B.** 2008. Why does the yellow-eyed Ensatina have yellow eyes? Batesian mimicry of Pacific Newts (Genus *Taricha*) by the salamander *Ensatina eschscholtzii xanthoptica*. *Evolution* doi:10.1111/j.1558-5646.2008.00338.x.
- 76) **Sinervo, B.**, Clobert, J., Miles, D. B., McAdam, A. G. and L. T. Lancaster. 2008. **The role of pleiotropy versus signaler-receiver gene epistasis in life history trade-offs: dissecting the genomic architecture of organismal design in social systems.** *Heredity* 101:197-207.
- 75) Vercken E, **Sinervo B**, Clobert J (2008) Colour variation in female common lizards: why we should speak of morphs, a reply to Cote et al. *Journal of Evolutionary Biology* doi: 10.1111/j.1420-9101.2008.01535.x
- 74) Lancaster, Hazard, L., Clobert, J. and **Sinervo, B.** 2008. **Corticosterone manipulation reveals differences in hierarchical organization of multi-dimensional reproductive trade-offs in r-strategist and K-strategist females.** *Journal of Evolutionary Biology* 21: 556-565.
- 73) **Sinervo, B.** and McAdam, A. 2008. Maturation costs of reproduction on clutch size and ontogenetic conflict as measured by the invisible fraction, *Proceedings of the Royal Society, London B.*, 275: 629-638.
- 72) Mills, S., Hazard, L., Lancaster, L., Mappes, T., Miles, D. B., Oksanen, T. and **Sinervo, B.** 2008. Gonadotropin hormone modulation of testosterone, immune function, performance, and behavioral trade-offs among male morphs of the lizard, *Uta stansburiana*. *The American Naturalist*, 171: 339-357.
- 71) Alonzo, S. and **Sinervo, B.** 2007. The effect of sexually antagonistic selection on adaptive sex ratio allocation. *Evolutionary Ecology Research*, 9: 1-21.
- 70) Bleay, C., Comendant, T. and **Sinervo, B.** 2007. An experimental test of frequency dependent selection on male mating strategy in the field. *Proceedings of the Royal Society, London B.* 274: 2019-2025.
- 69) Calsbeek, R. and **Sinervo, B.** 2007. Correlational selection on lay date and life history traits: Experimental manipulations of territory and nest site quality. *Evolution* 61: 1071-1083.
- 68) Lancaster, L., McAdam, A., Wingfield, J. and **Sinervo, B.** 2007. Adaptive Social and Maternal Induction of Anti-Predator Dorsal Patterns in a Lizard with Alternative Social Strategies. *Ecology Letters*, 10: 798-808.

- 67) Meylan, S., Clobert, J., and **Sinervo, B.** 2007. Adaptive significance of maternal induction of density dependent phenotypes. *Oikos* **116**: 650-661.
- 66) Miller, B.L. and **Sinervo, B.** 2007. Heritable body size mediates apparent life history trade-offs in a simultaneous hermaphrodite. *Journal of Evolutionary Biology* **20**: 1554-1562.
- 65) Miles, D. B., Calsbeek, R., and **Sinervo, B.** 2007. Corticosterone, locomotor performance, and metabolism in side-blotched lizards (*Uta stansburiana*). *Hormones and Behavior* **51**: 548-554.
- 64) Miles, D. B., **Sinervo, B.**, Nagy, K., Costa, D., Hazard, L., Svensson E.I. 2007. Relating endocrinology, physiology and behaviour using species with alternative mating strategies *Functional Ecology* **21**: 653–665.
- 63) **Sinervo, B.**, Heulin, B., Surget-Groba, Y., Clobert, J., Corl, A., Chaine, A, and Davis, A. 2007. Models of density-dependent genic selection and a new Rock-Paper-Scissors social system. *The American Naturalist*, 170: 663-680.
- 62) Bleay, C. and **Sinervo, B.** 2007. Discrete genetic variation in mate choice and a condition dependent preference function in the side blotched lizard: Implications for the formation and maintenance of co-adapted gene complexes. *Behavioral Ecology* **18**: 304-310.
- 61) **Sinervo, B.** and Calsbeek, R. 2006. The developmental and physiological causes and consequences of frequency dependent selection in the wild. *Annual Review of Ecology and Systematics* **37**: 581-610.
- 60) **Sinervo, B.**, Calsbeek, R., Comendant, T., Both, C., Adamopoulou, C. and Clobert, J. 2006b. Genetic and maternal determinants of effective dispersal: the effect of sire genotype and size at birth in side-blotched lizards. *The American Naturalist* **168**: 88-99.
- 59) **Sinervo, B.**, Chaine, A., Clobert, J., Calsbeek, R., McAdam, A., Hazard, H., Lancaster, L., Alonzo, S., Corrigan, G., and M. Hochberg. 2006a. Self-recognition, color signals and cycles of greenbeard mutualism and transient altruism. *Proceedings of the National Academy of Sciences (U.S.A.)*. **102**: 7372-7377.
- 58) Vercken, E., Massot, M., **Sinervo, B.**, and Clobert, J. 2006. Colour polymorphism and alternative reproductive strategies in females of the common lizard *Lacerta vivipara*. *Journal of Evolutionary Biology*, **20**:221-232.
- 57) **Sinervo, B.** 2005. Darwin's Finch beaks, *Bmp4*, and the developmental origins of novelty. *Heredity* **10**: 1-2.
- 56) Svensson, E.I. and **Sinervo, B.** 2004. The spatial scale and temporal component of selection in the side-blotched lizard. *The American Naturalist* **163**: 726-734.
- 55) Calsbeek, R. and **Sinervo, B.** 2004. Within-clutch variation in offspring sex determined by differences in sire body size: cryptic mate choice in the wild. *Journal of Evolutionary Biology* **17**: 464-470.
- 54) Costa, D. and **Sinervo, B.** 2004. Field Physiology: Physiological Insights from Animals in Nature. *Annual Review of Physiology* **66**: 209-238
- 53) Huey, R.B., Hertz, P. and **Sinervo, B.** 2003. Behavioral drive versus behavioral inertia in evolution: a null model approach. *The American Naturalist*: **161**:357-366. (**Award for Best paper, American Naturalist, 2003**).
- 52) **Sinervo, B.** and Calsbeek, R. 2003. Ontogenetic conflict and morphotypic selection on physiology, life history, and adaptive sex allocation. In symposium volume: *Selection and evolution of performance in nature*, J. Kingsolver and R.B. Huey (eds). *Integrative and Comparative Biology* **43**: 419-430.
- 51) **Sinervo, B.** and Clobert, J. 2003. Morphs, dispersal, genetic similarity and the evolution of cooperation. *Science* **300**: 1949-1951.
- 50) **Sinervo, B.**, and Svensson, E.I. 2002. Correlational selection and the evolution of genomic architecture. *Heredity* **89**: 329-338.
- 49) Hochberg, M., **Sinervo, B.** and Brown, S. 2003. Socially-mediated speciation. *Evolution* **57**: 154-158.
- 48) Galis, F., Kundrát, M., and **Sinervo, B.** 2003. An old controversy solved: Bird embryos have five fingers.

- 47) Comendant, T., **Sinervo, B.**, Svensson, E. and Wingfield, J. 2003. Social competition, corticosterone and survival in female lizard morphs. *Journal of Evolutionary Biology* **16**: 948-955.
- 46) Svensson E.I., **Sinervo, B.** and Comendant, T. 2002. Mechanistic and experimental analysis of condition and reproduction in a polymorphic lizard. *Journal of Evolutionary Biology* **15**: 1034-1047.
- 45) Calsbeek, R. and **Sinervo, B.** 2002a. The ontogeny of territoriality during maturation. *Oecologia* **132**: 468-477.
- 44) Calsbeek, R. and **Sinervo, B.** 2002b. Uncoupling direct and indirect components of female choice in the wild. *Proceedings of the National Academy of Sciences, U.S.A.* **99**: 14897-14902.
- 43) Calsbeek, R. and **Sinervo, B.** 2002c. An experimental test of the ideal despotic distribution. *Journal of Animal Ecology* **71**: 513-523
- 42) Calsbeek, R., Alonzo, S.H., Zamudio, K., **Sinervo, B.** 2002. Sexual selection and alternative mating behaviours generate demographic stochasticity in small populations. *Proceedings of the Royal Society of London Series B-Biological Sciences*. **269**: 157-164.
- 41) Galis, F., **Sinervo, B.** and Metz, J.A.J. 2002. The digital arch model reconsidered. *Trends in Ecology and Evolution* **17**: 405.
- 40) Galis, F. and **Sinervo, B.** 2002. Divergence and convergence in early embryonic stages of metazoans. *Contributions in Zoology* **71**: 101-113
- 39) **Sinervo, B.** 2001a. Runaway social games, genetic cycles driven by alternative male and female strategies, and the origin of morphs. In *Macroevolutionary and microevolutionary process*, A. Hendry, and M. Kinnison, (eds) *Genetica* **112**: 417-434.
- 38) **Sinervo, B.**, Bleay, C. and Adamopoulou, C. 2001. Social causes of selection and the resolution of a heritable throat color polymorphism in a lizard. *Evolution* **55**: 2040-2052.
- 37) **Sinervo, B.** and K. Zamudio. 2001. The evolution of alternative reproductive strategies, fitness differential, heritability, and genetic correlation between the sexes. *Journal of Heredity*, **92**: 198-205.
- 36) Svensson E.I., **Sinervo, B.** Comendant, T. 2001a. Condition, genotype-by-environment interaction, and correlational selection in lizard life-history morphs. *Evolution* **55**: 2053-2069.
- 35) Svensson E.I., **Sinervo, B.**, Comendant, T. 2001b. Density-dependent competition and selection on immune function in genetic lizard morphs. *Proceedings of the National Academy of Sciences* **98**: 12561-12565 23: 2001.
- 34) Alonzo, S.H. and **Sinervo, B.** 2001. Mate choice games, context-dependent good genes, and genetic cycles in the side-blotched lizard, *Uta stansburiana*. *Behavioral Ecology Sociobiology* **49**: 176-186.
- 33) **Sinervo, B.**, Miles, D.B., Frankino, W.A. Klukowski, M., and DeNardo, D.F. 2000. Testosterone, endurance, and Darwinian fitness: natural and sexual selection on the physiological bases of alternative male behaviors in side-blotched lizards. *Hormones and Behavior* **38**: 222-233.
- 32) Zamudio, K. and **Sinervo, B.** 2000. Polygyny, mate-guarding, and posthumous fertilization as alternative male mating strategies. *Proceedings of the National Academy of Sciences, U.S.A.* **97**:14427-14432.
- 31) Miles, D.B., **Sinervo, B.** and Frankino, W.A. 2000. Reproductive burden, locomotor performance, and the cost of reproduction in free ranging lizards. *Evolution* **54**: 1386-1395.
- 30) **Sinervo, B.**, Svensson, E. and Comendant, T. 2000. Density cycles and an offspring quantity and quality game driven by natural selection. *Nature* **406**: 985-988.
- 29) Svensson, E. and **Sinervo, B.** 2000. Experimental excursions on adaptive landscapes: density-dependent selection on egg size. *Evolution* **54**: 1396-1403.

- 28) **Sinervo, B.** 1999. Mechanistic Analysis of Natural Selection and a Refinement of Lack's and William's Principles. *American Naturalist* **154** SUPPL: S26-S42.
- 27) **Sinervo, B.** and Svensson, E. 1998. Mechanistic and selective causes of life history trade-offs and plasticity. *Oikos* **83** 432-442.
- 26) Rieseberg, L.H., Araiás, D.M., Ungerer, M.C., Linder, C.R. and **Sinervo, B.** 1996. The effects of mating on introgression between chromosomally divergent sunflower species. *T. App. Gen.* **93**: 633-644.
- 25) Rieseberg, L.H., **Sinervo, B.**, Linder, C.R., Ungerer, M.C. and Arias, D.M. 1996. Role of gene interactions in hybrid speciation: Evidence from ancient and experimental hybrids. *Science* **272**: 741-745.
- 24) **Sinervo, B.** and Lively, C.M. 1996. The rock-scissors-paper game and the evolution of alternative male strategies. *Nature* **340**: 240-246.
- 23) **Sinervo, B.** and Doughty, P. 1996. Interactive effects of offspring size and timing of reproduction on offspring reproduction: Experimental, maternal, and quantitative genetic aspects. *Evolution* **50**: 1314-1327.
- 22) **Sinervo, B.** and DeNardo, D.F. 1996. Costs of reproduction in the wild: Path analysis of natural selection and experimental tests of causation. *Evolution* **50**: 1299-1313.
- 21) **Sinervo, B.** and Dunlap, K.D. 1995. Thyroxine affects behavioral thermoregulation but not growth rate among populations of the western fence lizard (*Sceloporus occidentalis*). *Journal of Comparative Physiological B* **164**: 509-517.
- 20) Doughty, P. and **Sinervo, B.** 1994. The effects of habitat, time of hatching, and body size on dispersal in *Uta stansburiana*. *Journal of Herpetology* **28**: 485-490.
- 19) **Sinervo, B.**, and Adolph, S.C. 1994. Growth plasticity and thermal opportunity in *Sceloporus* lizards. *Ecology* **75**: 776-790.
- 18) DeNardo, D.F. and **Sinervo, B.** 1994a. Effects of steroid hormone interaction on activity and home-range of male lizards. *Hormones and Behavior* **28**: 273-287.
- 17) DeNardo, D.F. and **Sinervo, B.** 1994b. Effects of corticosterone on activity and territory size of free-ranging male lizards. *Hormones and Behavior* **28**: 53-65.
- 16) Doughty, P., **Sinervo, B.** and Burghardt, G.M. 1994. Sex-biased dispersal in a polygynous lizard, *Uta stansburiana*. *Animal Behavior* **47**: 227-229.
- 15) **Sinervo, B.** 1993. The effect of offspring size on physiology and life history: manipulation of size using allometric engineering. *Bioscience* **43**: 210-218.
- 14) **Sinervo, B.**, Doughty, P., Huey, R.B. and Zamudio, K. 1992. Allometric engineering: A causal analysis of natural selection on offspring size. *Science* **258**: 1927-1930.
- 13) **Sinervo, B.** and Licht, P. 1991b. Proximate constraints on the evolution of egg size, egg number and total clutch mass in lizards. *Science* **252**: 1300-1302.
- 12) **Sinervo, B.** and Licht, P. 1991a. The physiological and hormonal control of clutch size, egg size and egg shape in *Uta stansburiana*: Constraints on the evolution of lizard life histories. *J. Exp. Zool* **257**: 252-264.
- 11) **Sinervo, B.** and Losos, J.B. 1991. Walking the tight rope: a comparison of arboreal sprint performance among populations of *Sceloporus occidentalis*. *Ecology* **72**: 1225-1237.
- 10) **Sinervo, B.**, Hedges, R. and Adolph, S.C. 1991. Decreased sprint speed as a cost of reproduction in the lizard *Sceloporus occidentalis*: variation among populations. *Journal of Experimental Biology* **155**: 323-336.
- 9) **Sinervo, B.** and Doyle, R.W. 1990. Life-history analysis in "physiological" compared with "sidereal" time: an example with an amphipod in a varying environment. *Marine Biology* **107**: 129-139.
- 8) **Sinervo, B.** and Huey, R.B. 1990. Allometric engineering: testing the causes of interpopulation differences in

performance. *Science* **248**: 1106-1109.

- 7) **Sinervo, B.** 1990b. The evolution of thermal physiology and growth rate between populations of the western fence lizard (*Sceloporus occidentalis*). *Oecologia* **83**: 228-237.
- 6) **Sinervo, B.** 1990a. The evolution of maternal investment in lizards: an experimental and comparative analysis of egg size and its effects on offspring performance. *Evolution* **44**: 279-294.
- 5) Losos, J.B. and **Sinervo, B.** 1989. The effect of morphology and perch size on sprint performance in *Anolis* lizards. *Journal of Experimental Biology* **145**: 23-30.
- 4) Boring, L.F., **Sinervo, B.** and Schubiger, G. 1989. Experimental phenocopy of a *Minute* maternal-effect mutation alters blastoderm determination in embryos of *Drosophila melanogaster*. *Dev. Biol.* **132**: 343-354.
- 3) **Sinervo, B.** and Adolph, S.C. 1989. The thermal sensitivity of growth in hatchling *Sceloporus* lizards: environmental, behavioral and genetic aspects. *Oecologia* **78**: 411-419.
- 2) **Sinervo, B.** 1988. The evolution of growth rate in *Sceloporus* lizards: environmental, behavioral, maternal, and genetic aspects. *Dissertation*, University of Washington, WA.
- 1) **Sinervo, B.** and McEdward, L.R. 1988. Developmental consequences of an evolutionary change in egg size: an experimental test. *Evolution* **42**: 885-899.

Books in preparation

- 1) **Sinervo, B.** *Behavioral Ecology: Genetics and Culture*. Text book with companion CD-ROM. Chapters 1-20 completed (proofing phase), CD-ROM scripting routines complete. (in prep.) online pdfs:

Books

Co-Editor of book:

- 1) *Adaptive Genetic Variation in the Wild*. T.A. Mousseau, **B. Sinervo**, and J.A. Endler, eds. 2000. Oxford University Press, New York. 265 pages

Author of book:

- 2) Friedman, D. and **Sinervo, B.** 2016. *Evolutionary games in Natural, Virtual and Social Worlds*, Oxford University Press, NY.

Book Chapters or Book Sections (all peer-reviewed) – 2 new chapters since last review

*18) Effects of acute and chronic environmental disturbances on lizards of Patagonia

*17) Tershy, B., S. Harrison, A. Borker, B. Sinervo, T. Cornelisse, C. Li, D. Spatz, D. Croll, and E. Zavaleta. 2016. Biodiversity, In H. Mooney and E. Zavaleta, *Ecosystems of California*, University of California Press.

16) Lancaster, L. T. and **B. Sinervo**. 2010. Epistatic Social and Endocrine Networks and the Evolution of Life History Trade-offs and Plasticity, In T. Flatt and A. Heyland (editors), *Life history trade-offs: A molecular perspective*. Oxford Univ. Press. *Molecular mechanisms of Life History Evolution*. Oxford University Press, Oxford, UK.

15) **Sinervo, B.** and D. B. Miles. 2010. Hormones and behavior of reptiles. In R. Nelson and K. Lopez (ed) *Hormones and Behavior of Vertebrates*. Academic Press.

14) Clobert, J. and **Sinervo B.** 2010. Co-Editors of a textbook section on *Phenotypic Plasticity*, with contributed sections by A. Chaine (Introduction), B. Ernande (Theory), E. Danchin (Information), **B. Sinervo** and J. Clobert (Development, Evolution, and Genetics of Plasticity). *Biology textbook*.

- 13) **Sinervo, B.**, and Calsbeek, R. 2010. Behavioral concepts of selection: experiments and genetic causes of selection on the sexes. In *Evolutionary Behavioral Ecology*. D. Westneat, and C. Fox (eds). Oxford University Press, Oxford, UK.
- 12) **Sinervo, B.**, and Clobert, J. 2008. Life history strategies, multidimensional trade-offs and behavioural syndromes. (in press) *In Behavioral Ecology: An Evolutionary Perspective on Behaviour* (E. Danchin, L.-A. Giraldeau, and F. Cézilly (eds). Oxford University Press, Oxford, UK.
- 11) Calsbeek, R. and **Sinervo, B.** 2008. Alternative reproductive tactics in reptiles. In *Alternative reproductive tactics*. Edited by J. Brockmann, L. Oliveira, M. Taborsky (in press).
- 10) **Sinervo, B.** and Svensson, E. I., 2003. The origin of novel phenotypes: correlational selection, epistasis and speciation, In: *Fins into Limbs*, B. K. Hall, eds. University of Chicago Press, Chicago.
- 9) Galis, F. and **Sinervo, B.** 2003. Conserved early embryonic stages. In: *Keywords and Concepts in Evolutionary Developmental Biology*. Brian K. Hall and Wendy M. Olson (eds.). Harvard University Press, Cambridge M.A.
- 8) Zamudio K.R. and **Sinervo, B.** 2003. Ecological and social contexts for the evolution of alternative mating strategies. In: *Territoriality, Dominance, and Sexual Selection: Adaptive Variation in Social Behavior among Individuals, Populations, and Species of Lizards*. S.F. Fox, T.A. Baird, and J.K. McCoy, eds. Johns Hopkins University Press, Baltimore, MD.
- 7) **Sinervo, B.** 2001. Selection in local neighborhoods, graininess of social environments, and the ecology of alternative strategies, in L. Dugatkin (ed.) *Model Systems in Behavioral Ecology*. Princeton, NJ: Princeton University Press.
- 6) **Sinervo, B.** 2000. Adaptation, natural selection, and optimal life history allocation. In: *Adaptive Genetic Variation in the Wild*. T.A. Mousseau, B. Sinervo and J.A. Endler, eds. Oxford University Press, New York. pp. 41-64.
- 5) **Sinervo, B.** 1997. Adaptive maternal effects in lizards. In: *Adaptive Maternal Effects*. T. Mousseau and C. Fox, eds. Oxford University Press, Oxford, England. pp. 288-306.
- 4) **Sinervo, B.** and Basolo, A.L. 1996. Testing adaptation using phenotypic manipulations. In: *Adaptation*. M.R. Rose and G. Lauder, eds. Academic Press, New York. pp. 148-185.
- 3) **Sinervo, B.** 1994a. Experimental tests of allocation paradigms. In: *Lizard Ecology III*, E.R. Pianka and L.J. Vitt, eds. Princeton University Press, Princeton, NJ. 73-93.
- 2) **Sinervo, B.** 1994b. Experimental manipulations of clutch and egg size of lizards: mechanistic, evolutionary, and conservation aspects. In: *Captive Management and Husbandry of Reptiles and Amphibians*. J.B. Murphy, K. Adler and T.C. Collins, eds. SSAR, Cornell, NY. 183-193.
- 1) **Sinervo, B.** 1991. Experimental and comparative analyses of egg size of lizards. In: *Proc. IVth International Congress of Systematic and Evolutionary Biology*. E. Dudley, ed. Dioscorides Press, Portland, OR. pp. 725-734.

Book Reviews

- 4) **Sinervo, B.** 2005. The genesis and maintenance of phenotypic plasticity, Review of the Book: *Phenotypic Plasticity: Functional and Conceptual Approaches* by T. J. DeWitt and S. Scheiner *Bioscience*. 55:704-706.
- 3) **Sinervo, B.** 1995. Review of *Ecological Morphology: Integrative Organismal Biology*, by P.C. Wainwright and S.M. Reilly. *Trends in Ecology and Evolution*.
- 2) **Sinervo, B.** 1995. Review of *The Evolution of Life Histories: Theory and Analysis*, by D.A. Roff. *Animal Behavior*.
- 1) **Sinervo, B.** 1992. Comparative oology review of *Egg Incubation: Its Effects of Embryonic Development I Birds and Reptiles*, by D.C. Deeming and M.W.J. Ferguson. *Science*.

Other Publications from Sinervo's Laboratory:

- 6) Corrigan, G. and A. Corl. Ms in prep. Phylogeography of the blunt-nosed leopard lizard. Mol. Ecol. In prep.
- 5) Kuchta, S. R., Parks, D., Schnieder, C., Mueller, R., and Wake, D. B. *Submitted*. Biogeography of the salamander ring species *Ensatina eschscholtzii*: isolation, differentiation, and secondary contact within an old evolutionary lineage. Journal of Biogeography.
- 4) Kuchta, S. R. and Tan, A. M. *Submitted*. Lack of phylogeographic structure in the Red-bellied newt.
- 3) Kuchta, S. R. and Tan, A. M. 2007. Lineage diversification on an evolving landscape: Phylogeography of the California Newt, *Taricha torosa* (Caudata: Salamandridae). Biol. J. Linn. Soc. *In press*.
- 2) Kuchta, S. R. 2005. Experimental support for aposematic coloration in the salamander *Ensatina eschscholtzii xanthoptica*: implications for mimicry of Pacific Newts. Copeia 2005: 265-271.
- 1) Kuchta, S. R. and Tan, A. M. 2005. Isolation by distance and post-glacial range expansion in the rough-skinned newt, *Taricha granulosa*. Mol. Ecol. 14: 225-244.

UNIVERSITY SERVICE

Department of Ecology and Evolutionary Biology

- | | |
|--------------|--|
| 2015- | Organizing PI behind an Institute for the Ecological and Evolutionary Climate Impacts, linking Universities and Natural Reserve System Facilities across California (currently a network of 100+ UC Scientists). |
| 2012-present | On call for Rapid Review of Fellowships Reviews for Ecology and Evolutionary Biology |
| 2009-2018 | Organizing PI behind an Institute for the Biotic Effects of Climate (IBEC), linking Universities and Research Facilities across the US, Europe, Central and South America (currently a network of 110 Scientists) including several initiatives integrating EEB faculty with other Universities and Research Institutes (Funded by NSF Macrosystems, see Grant Support). <ol style="list-style-type: none"> 1) REU Sites Grant Director co Director with L. Fox includes Bay Area linkages with Point Reyes Bird Observatory, California Academy of Sciences, ENVIS, UCSC and Elkhorn Slough 2) Discussions of MRPI involving UC Santa Cruz, UC Berkeley, UC Riverside, UC Davis, UC Merced, UC Los Angeles, UC Santa Barbara, UC San Diego, and the UC NRS System |
| 2006-2007 | Space Committee EEB, EMS Building |
| 2006-2007 | Search Committee for Quantitative Ecologist |
| 2005 | EEB Seminar Series (Winter) |
| 2002-2003 | Chair, Curriculum Committee EEB |
| 2000-2002 | Curriculum Committee, Department of Ecology and Evolutionary Biology |
| 2000-2003 | Web Site redesign for Department of Ecology and Evolutionary Biology |
| 2000 | co-organizer (w/ B. Lyon), Seminar series in Evolution and Ecology |

Department of Biology

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| 2006 | Search Committee for Ecologist |
| 2001 | Chair, Search Committee for Evolutionary Biologist |
| 1999-2000 | Chair, Search Committee for Marine Mammology/Sea Bird Biology |
| 1999-2000 | co-Editor and Steering Committee (w/ M. Carr, L. Fox, T. Williams), ICE initiative on Integrative Coastal Ecology, Department of Evolution and Ecology |
| 1998-1999 | Search Committee, Evolutionary Biology, Department of Biology |
| 1997-1998 | Advisory committee on the Program in Conservation Biology |
| 1997-1998 | Search Committee, Neurobiology, Department of Biology |

Division of Natural Sciences

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| 2001-2003 | Divisional CAP |
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Campus

2007	Adhoc committee member CAP
2006	Member, Committee on Digital Arts and New Media Advisory Council
2005	Submitted an objection to the LRDP, 2005 (and companion supporting report submitted to California Department of Fish and Game)
2002	Adhoc committee member CAP
2001	Adhoc committee member CAP
2000	Adhoc committee member CAP
1997-1999	Member, Committee on Digital Arts and New Media Advisory Council

SERVICE AT UNIVERSITY OF CALIFORNIA, INTERCAMPUS

2015	Organizing PI behind a proposed ISEECI, UCOP Awarded Grant, see Grants
2013	Organizing PI behind a proposed Institute for the Biotic Effects of Climate, UCOP
2006-2011	Advisory Board, Network of Experimental Research in Evolution (NERE), UC-wide research group
2006-2011	Associate Director, NERE, UCSC Campus
1997-1998	Member, Organizing Committee, Digital Arts Curriculum in the UC, Office of the President, University of California.

UNIVERSITY SERVICE AT INDIANA UNIVERSITY

1993-1998	Core Faculty, Center for the Integrative Study of Animal Behavior (CISAB) Research Training Grant, Indiana University, participated in the successful renewal of Training Grant submitted to NSF for the CISAB, Indiana University
1995-1996	Steering Committee, Center for the Integrative Study of Animal Behavior (CISAB), Research Training Grant, Indiana University
1995	Curriculum and Courses Committee
1995	Seminar Organizer, Department of Evolution, Ecology and Behavior

PROFESSIONAL ACTIVITIES

Consultative or Other Services to Civic, State or National Government Agencies

2014-	Landscape Conservation Cooperative, Ciervo-Panoche and Carrizo eco-regions for the BLM
2014-	Desert Landscape Conservation Cooperative, Deserts of US and Mexico, for the BLM and USFWS (Grant Awarded for projects in CA, NV, AZ, NM, TX – the DLCC coverage area).
2004-2011	Research Project, Ice plant invasion and eradication strategies, Channel Islands National Park, Anacapa Island, US National Park Service
2006	Report on the Cave Salamanders of UCSC Campus, submitted to the California Department of Fish and Game
1999-2003	Research Project, Center for Island Conservation and Ecology, Reptile communities on the Channel Islands National Park, Anacapa Island, US Park Service
2000-	Consulting Director, Center for Island Conservation and Ecology
1999-2000	Consultations on the environmental impact of development on hydrological and ecological effects on anuran communities, Ontario

Service to the Staff or Editorial Board of Scholarly Journals or Publications

Service as an Associate Editor at the following journals:

2009-2010	Proceedings of the Royal Society, London
2006	Journal of Experimental Zoology
2004-2005	Guest Editor, Annual Review of Ecology and Systematics

2001-2003 Ecology Letters
 2002-2003 Ecology
 2002-2003 Evolution
 2002-2003 Journal of Evolutionary Biology

Reviewer: NSF, Evolution, Ecology, Oecologia, American Naturalist, Herpetologica, Journal of Herpetology, Copeia Canadian Journal of Zoology, Hormones and Behavior, Nature, Science, Behavioral Ecology and Sociobiology, NSERC, J. Physiol., Proc. Linn. Soc., and Molecular Ecology.

NSF Animal Behavior Panel, October 2004

IGRC, NSF Panel member, May 2002

NSF Animal Behavior Panel reviewing Dissertation Improvement Grants, February 1997

Organizer and Presenter in Scientific Workshops and Education programs

[http: bio.research.ucsc.edu/~barrylab/classes/climatechange/ClimateChange.htm](http://bio.research.ucsc.edu/~barrylab/classes/climatechange/ClimateChange.htm) (see for the website of Powerpoint Presentations and reading material co-written by B. Sinervo, R. B. Huey, D. B. Miles E. Wapstra, M. Kearney, J. Pittermann and J. Rohr).

- 1) 2016 (Jul.), co-directed the material given by Juan Santos (postdoctoral fellow) and Gabriel Caetano (Phd in the Sinervo Lab, Physiological Approaches to Climate Change Species Distribution Modeling in Plants, Reptiles and Amphibians, Rio de Janeiro, hosted by Guarino Colli, UnB, given at Tocantins, Brazil. 30 participants
- 2) 2016 (Aug.), Physiological Approaches to Climate Change Species Distribution Modeling in Reptiles and Amphibians, Hangzhou China, hosted by Qi Yin, Chinese Academy of Sciences, 20 participants
- 3) 2015 REU Sites Co-Director with Laurel Fox, REU Site and workshops given on the Biological impacts of climate change: testing hypotheses with collections and long-term data, 10 participants
- 4) 2014 REU Sites Co-Director with Laurel Fox, REU Site and workshops given on the Biological impacts of climate change: testing hypotheses with collections and long-term data, 10 participants
- 5) 2013 REU Sites Co-Director with Laurel Fox, REU Site and workshops given on the Biological impacts of climate change: testing hypotheses with collections and long-term data, 10 participants
- 6) 2015 Physiological Approaches to Climate Change Species Distribution Modeling in Plants, Reptiles and Amphibians, Mexico, hosted by Fausto Mendez de la Cruz and Víctor Manuel G. Sánchez Cordero, 25 participants
- 7) 2015 Field Methods in Physiology for Assessing Climate Change Species Impacts on Reptiles and Amphibians, Rio San Francisco, Natal, Brazil, hosted by Guarino Colli and Daniel Mesquita, 15 participants
- 8) 2015 Physiological Approaches to Climate Change Species Distribution Modeling in Plants, Reptiles and Amphibians, Rio de Janeiro, hosted by Carlos Frederico Duarte Rocha, 25 participants
- 9) 2015 Field Methods in Physiology for Assessing Climate Change Species Impacts on Plants, Reptiles and Amphibians, Gaucha do Norte, Mato Grosso, Brazil, hosted by Guarino Colli, Ben Hur Marimon and Beatriz Marimon, 25 participants
- 10) 2015 Physiological Approaches to Climate Change Species Distribution Modeling in Plants, Reptiles and Amphibians, Nova Xavantina, Mato Grosso, Brazil, hosted by Guarino Colli, Ben Hur Marimon and Beatriz Marimon, 25 participants
- 11) 2015 Physiological Approaches to Climate Change Species Distribution Modeling in Reptiles and Amphibians, Madrid, Spain, hosted by Asociación Española de Ecología Terrestre, 20 participants
- 12) 2015 Physiological Approaches to Climate Change Species Distribution Modeling in Reptiles and Amphibians, Bogota, Colombia, hosted by Martha Calderon, 30 participants
- 13) 2014 Physiological Approaches to Climate Change Species Distribution Modeling in Reptiles and Amphibians, Belem, Brazil, hosted by Teresa Avila Pires, 18 participants
- 14) 2014 Physiological Approaches to Climate Change Species Distribution Modeling in Reptiles and Amphibians Canberra, Australia, hosted by Scott Keogh, 25 participants
- 15) 2013 Physiological Approaches to Climate Change Analyses in Vertebrates, Bariloche, Argentina (20 Students), hosted by N. R. Ibargüengoyatía
- 16) 2013 Physiological Approaches to Climate Change Species Distribution Modeling in Reptiles and

- Amphibians, Mexico City, Mexico, hosted by Fausto Mendez de la Cruz, 30 participants
- 17) 2013 Physiological Approaches to Climate Change Analyses in Reptiles and Amphibians Puerto Madryn, Argentina (20 Students), hosted by M. Morando
 - 18) 2012 Physiological Approaches to Climate Change Analyses in Reptiles and Amphibians, Sao Paulo, Brazil (18 Students), hosted by C. Navas
 - 19) 2012 Physiological Approaches to Climate Change Analyses in Reptiles and Amphibians, Bariloche, Argentina (15 students), hosted by N. R. Ibargüengoyatía
 - 20) 2012 Evolutionary Game Theory and Ecosystems, Sao Paulo, Brazil (20 students), hosted by P. Guimarães, including climate modeling

Participation in Broadcasts Public Lectures, and Forums

- 2016 KQED production of Deep Look on the rock-paper-scissors mating system of side-blotched lizards
- 2015 Public talk to the rangers of the Aconcagua National Park, Argentina
- 2014 Natural History Series, UC Santa Cruz Arboretum
- 2013 Climate forced extinctions in Vertebrates, Public Lecture in Puerto Madryn, Argentina (translated by M. Morando)
- 2012 Discovery Museum Public Lecture, San Francisco “Rock-paper-scissors night at the Museum”
- 2011 NBC Universal developed a teaching module on our climate change research: <http://www.nbclearn.com/climate/cuecard/54576>
- 2010 with the publication of Sinervo et al. (2010), Science the following radio interviews were given:
Web video Science magazine of the international press conference, Madrid Spain,
PODCAST NPR <http://www.npr.org/templates/rundowns/rundown.php?prgId=2>
PODCAST Germany: <http://www.dradio.de/dlf/sendungen/forschak/1183459/>
PODCAST: BBC <http://www.bbc.co.uk/iplayer/episode/p007hxy1/ScienceInAction14052010/>
Quirks & Quarks: <http://www.cbc.ca/quirks/archives/09-10/qq-2010-05-15.html#1>
Science Friday pod-cast: <http://www.npr.org/rss/podcast.php?id=510221>
National Geographic Radio: <http://www.nationalgeographic.com/radio/episodes/episode-408.html>
Robert Pollie: <http://itunes.apple.com/us/podcast/the-7th-avenue-project/id302407665>
article: <http://www.guardian.co.uk/environment/2010/may/13/lizards-mexico-extinction-climate-change>
and 100s of others not listed here (over 400 web articles were posted, and hundreds of newspaper articles)
- 2007 PBS series, *Nature*, series on Sexual Selection (total participation time 4 weeks)
- 2006 Consultation on BBC Natural History Unit: filming of *Life in cold blood* with Sir David Attenborough, and appearance on a special segment on the making of *Life in Cold Blood* (total participation time: 4 weeks)
- 2005 Natural History Museum, Santa Cruz, CA (with Mitchell Mulks)
- 2005 Consultation and Appearance on Discovery Channel production: Dr. Tatiana’s advice to the animals of creation (total participation time: 1 week)
- 2004 Consultation on BBC radio program, Natural History and Animal Behavior, Aubrey Manning, interview given by Barry Sinervo (total participation time: 2 days)
- 2004 Natural History Museum, Santa Cruz, CA
- 2003 Natural History Museum, Santa Cruz, CA
- 2002 Natural History Museum, Oakland, CA
- 2000 Cosmos Lecturer, Instruction in Science and Math for High School Students, University of California, Santa Cruz
- 2001 Cosmos Lecturer, Instruction in Science and Math for High School Students, University of California, Santa Cruz
- 2000 Natural History Museum, Santa Cruz, CA
- 2000 Southwestern Society of Herpetologists, Los Angeles, CA
- 2000 Speaker, ACE program, University of California, Santa Cruz
- 2000 Keynote speaker, Recruitment Seminar for High School Students, March 2000, UC Santa Cruz
- 2000 Speaker, Los Gatos High School, Science Students, Recruitment Seminar
- 1998 Consultation for NZBC Natural History Film on Animal Behavior, segment on the mating system of side-blotched lizards (total participation time: 2 weeks)

- 1997 Consultation for BBC, Natural History Unit, Film on "the Battle of the Sexes," segment on the mating system of side-blotched lizards (total participation time: 3 weeks)
- 1996 Rock-paper-scissors mating system highlighted on the radio program *Quirks and Quarks*, CBC radio (interview given by Barry Sinervo) (total participation time: 1 day)
- 1991 Consultation for NBC, Today Show, segment on allometric engineering and Sinervo, and appearance on the Today Show segment (by Bob Bazell) (total participation time: 3 days)

Invited Plenary and Keynote lectures (16), Seminars and Symposia

- 2016
 - Plenary Speaker, World Congress of Herpetology, Hangzhou, China (Aug. 2016) “What can 65 million years of climate forced extinction in reptiles tell us about the impending sixth mass extinction due to climate change?”
 - Invited Symposium Speaker, World Congress of Herpetology, Hangzhou, China (Aug. 2016) Symposium 19: Ecology and Physiology of Amphibians and Reptiles: Challenges Caused by Global Climate Change, Title of Talk: Ecophysiological species distribution models for reptiles and amphibians and the risk of extinction from climate change, AD618
 - Invited Symposium Speaker, World Congress of Herpetology, Hangzhou, China (Aug. 2016) Symposium 20: Water Balance Influencing the Life History of Amphibians and Reptiles S21: Future Interactions Between Herpetology and Ecological/Evolutionary Physiology in a Changing World. Title talk: Species distribution models of water loss and temperature regulation in amphibians: The threats of extinction from climate change ID586
 - Invited Talk, Chinese Academy of Sciences, Institute of Biology, Chengdu China.
- 2015
 - Plenary Speaker, VII Congresso Brasileiro de Herpetologia, Gramado Brazil (Sept. 2014) “What can 65 million years of climate forced extinction in reptiles tell us about the impending sixth mass extinction due to climate change?”
 - Invited Seminar, Museum für Naturkunde, Berlin
- 2014
 - Keynote Speaker, Bay Area Symposium of Undergraduate Research Experiences (BA-SURE) (July 2014)
 - Plenary Speaker, Latin American Meeting of Herpetology, Cartagena, Colombia (Dec. 2014)
 - Plenary Speaker, Australian Society of Herpetology, Canberra, Australia, “Climate Change Extinctions during the last 50 million years and into the future”
- 2013
 - Plenary Speaker, Argentinian Herpetological Society, Puerto Madryn, Argentina, “Climate Change Extinctions during the last 50 million years and into the future”
 - Invited Seminar, Simon Fraser University, Burnaby, B. C.
 - Invited Seminar, California Academy of Sciences, San Francisco, CA
 - Invited Speaker, Graduate Symposium, Washington State University, Pullman, WA
 - Invited Seminar, University of Montpellier, Montpellier, France
- 2012
 - Invited Symposium Speaker (co-presenter with R. B. Huey) World Congress of Herpetology, Vancouver, Canada, “Climate Change Extinctions in Lizards”
 - Invited Symposium Speaker, World Congress of Herpetology, Vancouver, Canada, “Speciation in Lizards”
 - Invited Seminar, University of Utah, Salt Lake City, UT
 - Invited Speaker, Climate Change Course for Graduate Students, UNAM, Mexico
 - Invited Seminar, University of California, Riverside, CA
 - Invited Seminar, University of California, Merced, CA
 - Invited Seminar, University of South Florida, Tampa, FL

- 2011
 - Plenary Speaker, Herpetological Congress, Bariloche, Argentina
 - Plenary Speaker, Ecological Congress, Puerto Montt, Chile
 - Invited Speaker for Course on Evolutionary Biology, Austral University of Chile, Valdivia, Chile
 - Plenary Speaker, Herpetological Congress, Puerto Montt, Chile
- 2010
 - College Speaker, Brigham Young University, Provo, Utah
- 2009
 - Key Note Speaker, Ottawa-Carleton Biology symposium, *Students' pick of speaker*
 - University of California, San Diego
 - University of California, Los Angeles
 - *Chosen as the Graduate Students' Pick for speaker*, California State University, North Ridge
- 2008
 - University of California, Santa Barbara
 - Plenary Speaker, Mexican Society of Herpetology, Pachuca, Mexico
 - *Chosen as the Graduate Students' Pick for speaker*, University of Texas, Austin
 - University of Texas, El Paso
- 2007
 - Plenary Speaker, NordForsk meeting on “Environmental and genetic stress, and individual quality”, Arhuus, Denmark
 - Université Paul Sabatier - Toulouse III (Nov)
 - Université Paul Sabatier - Toulouse III (Oct)
 - University of Edinburgh (Nov)
- 2006
 - Brigham Young University, Provo Utah
 - *Chosen as the Graduate Students' Pick for speaker*, University of Oregon, Eugene OR
 - Reed College, Portland OR
- 2005
 - Plenary Speaker, International Society for Ethology and Behavior, Budapest, Hungary
 - Symposium Speaker, International Society of Evolutionary Biology, Krakow Poland
 - Invited Seminar, Department of Ecology and Evolutionary Biology, Michigan
 - *Chosen as the Graduate Students' Pick for speaker*, The Ohio State University, Columbus OH
 - Animal Behavior Group, Research Seminar, University of California, Davis
 - Speaker, Center for Ecology Synthesis, Oslo Norway
- 2004
 - Plenary Speaker, International Society of Evolutionary Biology, Jyväskylä, Finland
- 2003
 - Symposium Speaker, Natural Selection on Physiological Traits, organized by R. B. Huey and J. Kingsolver, Toronto meeting of SICB
 - Symposium Speaker, European Society of Evolutionary Biology, Ahren Denmark
- 2002
 - Workshop on Evolutionary Dynamics, Department of Mathematics, University of Turku, Turku, Finland
 - Keynote Speaker, Benelux Congress of Evolutionary Biology
 - Chitty Lecture, University of British Columbia
 - Department of Biology, Stanford University, CA
 - Department of Biology, University of Oregon, Eugene, OR
- 2001
 - Department of Ecology and Evolution, Pierre and Marie Curie University, Paris, France
 - CNRS, Montpellier, France.
 - Symposium Speaker, Congress, Society for Evolutionary Biology, Symposium on “Frequency dependent selection and evolution”, title of Seminar, “Frequency dependent selection and the evolution of alternative male and female strategies”
 - Symposium co-Organizer with T. Williams, American Physiological Society, Symposium Title, “The role of hormones in life history tradeoffs”
 - Symposium Speaker, American Physiological Society, Symposium on “The role of hormones in life

history tradeoffs”, title of Seminar, “Hormones and physiological constraints on the evolution of alternative male and female strategies”

- Symposium Speaker, University of Leiden, Symposium on “Evolution and Development,” title of Seminar, “The role of hormones in the development and evolution of alternative male and female strategies”

2000

- Conference co-organizer (with G. Pogson), California Population Genetic Meetings, Santa Cruz, CA
- Symposium Speaker, University of Groningen, “Evolutionary Ecology of Sex,” title of Seminar, “Games lizards play: rock-paper-scissors game meets the r- and K-strategists.”
- Department of Biology, University of South Carolina, SC
- Department of Integrative Biology, University of California, Berkeley, CA

1999

- Simon Fraser University, Vancouver, British Columbia
- University of Calgary, Calgary, Alberta

1998

- Symposium Speaker, Groningen, “Advances in Ecology” title of Seminar, “The evolution of alternative male and female strategies”
- Netherlands Institute for Terrestrial Ecology, Heteren, Netherlands
- Symposium Speaker, Society for Behavioral Neuroendocrinology “Advances in Field behavioral endocrinology” title of Seminar, “The proximate control of alternative male strategies: Lessons from evolutionary game theory.”

1997

- Invited Symposium Speaker, Winter Animal Behavior Conference, Jackson Hole, WY, “The rock-paper-scissors game and the evolution of alternative male strategies”
- Symposium Speaker, American Society of Naturalists Vice President’s Symposium: “Experimental manipulations of phenotype and adaptation,” Boulder Co, title of Seminar, “Experimental manipulations of reproductive allocation”
- Symposium Speaker, Symposium on Adaptive Genetic Variation in the Wild, Ecological Society of American, Albuquerque, NM, “Heritable variation of reproductive allocation in lizards”
- Animal Behavior Research Group, University of California, Davis, CA
- Department of Ecology and Evolution, University of Chicago, IL
- Department of Ecology and Evolutionary Biology, University of Nevada, Reno, NV
- Department of Biology, Florida State University, Gainesville, FL

1996

- Keynote Speaker and Panelist, Revolution VIII, Departmental Symposium, Ecology and Population Biology, Uppsala, Sweden, “The rock-paper-scissors game and evolution of alternative male strategies”
- Keynote Speaker, Midwest Regional Animal Behavior Society, Center for the Integrative Study of Animal Behavior, Bloomington, IN, “Towards a Verhaltenphysiologie: proximate and ultimate aspects of the rock-paper-scissors game of alternative male strategies”
- Invited Speaker, Symposium on Individual Behavior and Population Processes, Association for the Study of Animal Behavior, Norwich, UK “The rock-paper-scissors game and the evolution of alternative male strategies”
- Max-Plank Institute fur Verhaltenphysiologie, Seewiesen, Germany
- Department of Zoology, University of Edinburgh, United Kingdom
- Department of Zoology, University of Uppsala, Sweden
- Department of Biology, University of California, Santa Cruz

1995

- Keynote speaker, International Oikos Society, Symposium on Costs of Reproduction and Mating Strategies, Two talks: “The rock-paper-scissors game and the evolution of alternative male strategies” and “Costs of reproduction in the wild: Path analysis of natural selection and experimental tests of causation”
- American Society of Zoologist Symposium, The Status of Experimental Ecology, “Causal analysis of natural selection in the wild: merging allometric engineering with studies of life history trade-offs,” St. Louis, Mo.
- Department of Environmental and Population Biology, University of Colorado, Boulder, CO,
- Department of Biology, Pennsylvania State University, College Park, PA

- Department of Biology, Ohio University, Athens, OH
- 1994
 - Savannah River Ecology Laboratory, Savannah River, GA
 - Department of Biology, Indiana-Purdue University at Fort Wayne, IN
 - Department of Ecology, Ethology and Evolution, Illinois University, Champagne, IL
 - Department of Zoology, University of Texas, Austin, TX
 - Department of Biology, Indiana State University, Terre Haute, IN
 - Department of Biology, Purdue University, West LaFayette, IN
 - Department of Biology, Michigan State University, East Lansing, MI
 - Department of Biology, University of Texas, Arlington, TX
- 1993
 - Department of Biology, University of British Columbia, Vancouver, BC
 - Invited Symposium Speaker, Second World Congress of Herpetology, Parental Investment Symposium, “Experimental measurements of selection on maternal investment,” Adelaide, AUS
 - Invited Symposium Speaker, Lizard Ecology III Symposium, American Society of Ichthyology and Herpetology, “Proximate constraints on lizard life histories: experimental tests of allocation paradigms,” Austin, TX
 - Invited Symposium Speaker, International Herpetological Symposium, “Experimental manipulations of clutch size and offspring size,” Fort Lauderdale, FL
- 1992
 - Department of Biology, University of California, Irvine, CA
 - Department of Biology, Indiana University, Bloomington, IN
 - Department of Zoology, Washington State University, Pullman, WA
 - Department of Biology, University of Oklahoma; Stillwater, OK
 - Department of Biology, Texas Christian University, Fort Worth, TX
- 1991
 - Department of Biology, Simon Fraser University, Burnaby, BC
 - Symposium in Honor of R. Conant, Society for the Study of Reptiles and Amphibians, title of Seminar “Experimental manipulations of clutch and egg size of lizards; mechanistic, evolutionary, and conservation aspects”
- 1990
 - Population Biology Group, University of California, Santa Barbara, CA
 - Department of Integrative Biology, University of California, Berkeley, CA
 - Symposium Co-Organizer, Maternal Effects in Evolutionary Biology (with B. Riska), The 4th International Congress of Systematic and Evolutionary Biology, “An Experimental analysis of maternal effects on offspring fitness in lizards,” University of Maryland, College Park, MD
- 1989
 - Department of Biology, University of California, Riverside, CA
 - Invited Speaker, First World Congress of Herpetology, Roundtable Discussion on Clutch Size/Egg Size, Canterbury, UK

Community Service

- 2001-2003 Board Member, Environmental Council, Santa Cruz
- 2002-2003 Consulting for Nisene2Sea Greenspace Alliance

Scientific Expeditions and Field Work

- Aug-Sept 2015 Field expedition to Amazon to conduct ecophysiological studies of climate impacts on plants, reptiles and amphibians (Parque Nacional de Xingo, Nova Xavantina, Deforestation Arc from Brasila to Nova Xavantina, Rio San Francisco)
- Aug-Sept 2014 Field expedition to Amazon to conduct ecophysiological studies of climate impacts on reptiles and amphibians (Cangaçu Field Station, Deforestation Arc from Brasila to Belem and Brasila to Nova Xavantina)
- May 2014 Field expedition to Baja CA, to collect *Bipes biporus* for a laboratory colony and secure tissue for

	transcriptome and genomic analyses
Jan 2014	Field expedition to Australia, Climate impacts on the Skinks of the Blue Mountains, Snowy Mountains and Tasmania
2010-2015	Expedition to France to work on the genus <i>Lacerta vivipara</i> on the origins of viviparity and color morphs and biotic impacts of climate change on reptiles and amphibians (each year June-July)
Dec 2012	Expedition to Argentina, work on the genus <i>Phymaturus</i> and the genus <i>Liolaemus</i> on the origins of viviparity and color morphs
Sept 2011	Expedition to Argentina, work on the genus <i>Phymaturus</i> and the genus <i>Liolaemus</i> on the origins of viviparity and color morphs
Nov 2011	Expedition to Chile/Argentina, work on the genus <i>Phymaturus</i> and the genus <i>Liolaemus</i> on the origins of viviparity and color morphs
Dec 2011	Expedition to Chile/Argentina, work on the genus <i>Phymaturus</i> and the genus <i>Liolaemus</i> on the origins of viviparity and color morphs
2010	Expedition to Argentina, work on the genus <i>Phymaturus</i> and the genus <i>Liolaemus</i> on the origins of viviparity and color morphs
2010	expedition to France/Spain, work on the genus <i>Iberolacerta</i> and the genus <i>Lacerta</i> on the origins of viviparity and color morphs
2009	2 expeditions to Mexico: States of Coahuila, Mexico, Hidalgo, D.F., <i>Sceloporus</i> spp. on the origins of viviparity and color morphs
2008	3 expeditions to Mexico: States of Coahuila, Mexico, Hidalgo, D.F., Yucatan, <i>Sceloporus</i> spp.
2003-2009	Massif Central and Pyrenees, France, field research on the common lizard, <i>Lacerta vivipara</i> , with Jean Clobert (CNRS Paris) and Benoit Huelin (CNRS Paimpont) (May-July) on the origins of viviparity and color morphs
2002 (9/2002)	Milos Island, Greece, field on <i>Podarcis milensis</i> with C. Adamopoulou
2002 (6-8/2002)	Pyrenees, Massif Central France, Italian Alps, Belgium, Germany, Finland, field work on the common lizard, <i>Lacerta vivipara</i> , with Jean Clobert (CNRS Paris) and Benoit Huelin (CNRS Paimpont) on the origins of viviparity and color morphs
2001 (7-9/2001)	Massif Central France, fieldwork on the common lizard with Jean Clobert (CNRS Paris)
2000 (7/2000)	Sea of Cortez, Mexico (Shipboard Naturalist), work on Phrynosomatidae
1989-2010	Field Research (California), work on <i>Uta stansburiana</i>
1984-1989	Field Research (Oregon, California), work on <i>Sceloporus occidentalis</i> , <i>S. graciosus</i> and <i>Uta stansburiana</i>

TEACHING

2012-2013

				Enrolled/% Taught	
Fall	Bioe	140	Behavioral Ecology	111	100%
		182F	Explore Research EEB	1	100%
		281V	Behavioral Ecology	2	100%
		295	Adv EEB Seminar	5	50%
		299B	Thesis Research	2	100%
	Cmps	166A	Game Theory/App I	6	33%
	Econ	166B	Game Theory/App I	19	33%
	EnvS	184	EnvS Stu Internship	1	100%
Winter	Bioe	141L	Behavioral Ecol Fld Crs	22	50%
		183L	Undergrad Research EEB	1	100%
		183W	Research in EEB	12	100%
		281V	Behavioral Ecology	2	100%
		299B	Thesis Research	2	100%

Summer	Bioe	299A	Thesis Research	1	100%
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2011-2012

Enrolled/% Taught

Fall	Bioe	281V	Behavioral Ecology	3	100%
		297B	Independent Study	1	100%
		299B	Thesis Research	2	100%
Winter	Bioe	281V	Behavioral Ecology	2	100%
		299B	Thesis Research	2	100%
	Cmps	272	Evolutnry Game Theo	5	33%
	Econ	166B	Game Theory/App II	5	33%
		272	Evolutnry Game Theo	5	33%
Spring	Bioe	114	Herpetology	33	100%
		114L	Herpetological Research	33	100%
		281V	Behavioral Ecology	2	100%
		299B	Thesis Research	2	100%
Summer	Bioe	299A	Thesis Research	1	100%

(Fall 2011-Winter 2012: Sabbatical)

Fall	Bio	141	Behavioral Ecology	152	100%
		ECON, CMPS, EEB 166B Game Theory lectures		35	50%
		Bio 295/281V Behavioral Ecology Seminar		7	100%

2009-2010

Fall	Bio	141	Behavioral Ecology	140	100%
		281V	Behavioral Ecology Seminar	4	100%
		ECON, CMPS, EEB 166A Game Theory lectures		45	50%
		ECON, CMPS, EEB 277A Game Theory lectures		9	50%
		183F	Undergraduate Research	10	100%
		281V	Behavioral Ecology Seminar	4	100%
		145L	Behavioral Ecology Field Course	26	50%

2008-2009

Fall	Bio	141	Behavioral Ecology	131	100%
		195	Independent Study	1	100%
		199	Independent Study	1	100%
		281V	Behavioral Ecology Seminar	5	100%
		297	Independent Studies	2	100%
		299	Thesis Research	4	100%
		ECON, CMPS, EEB 166A Game Theory lectures		45	33%
Winter	Bio	147	Behavioral Ecology Field Course	24	50%
		281V	Behavioral Ecology Seminar	5	100%
Spring	Bio	143	Herpetology	25	100%
		143L	Herpetology Lab	25	100%

195	Independent Study	2	100%
199	Independent Study	1	100%
281V	Behavioral Ecology Seminar	5	100%
297	Independent Studies	2	100%
299	Thesis Research	4	100%

Fall 2007-Winter 2008: Sabbatical

2005-2006

Fall	Bio	140	Behavioral Ecology	109	100%
		195	Independent Study	1	100%
		199	Independent Study	1	100%
		281V	Behavioral Ecology Seminar	5	100%
		297	Independent Studies	2	100%
		299	Thesis Research	4	100%
		ECON, CMPS and Bio 277: Game Theory		45	33%
Winter	Bio	281V	Behavioral Ecology Seminar	5	100%
		297	Independent Studies	2	100%
		299	Thesis Research	4	100%
		DANM 218	Digital video game design	14	100%
Spring	Bio	199	Independent Study	6	100%
		281V	Behavioral Ecology Seminar	5	100%
		297	Independent Studies	2	100%
		299	Thesis Research	4	100%

2004-2005

Fall	Bio	140	Behavioral Ecology	105	100%
		195	Independent Study	1	100%
		199	Independent Study	5	100%
		281V	Behavioral Ecology Seminar	4	100%
		297	Independent Studies	2	100%
		299	Thesis Research	2	100%
Winter	Bio	20C	Ecology and Evolution	216	50%
		107	Population Genetics	14	50%
		107L	Population Genetics	14	50%
		207	Population Genetics	6	50%
		207L	Population Genetics	5	50%
		145L	Behavioral Ecology Field Course	16	50%
		195	Independent Studies	4	100%
		199	Independent Studies	4	100%
		281V	Behavioral Ecology Seminar	4	100%
		297	Independent Studies	2	100%
		299	Thesis Research	2	100%
		ECON, CMPS, Bio 166B Game Theory lectures		45	33%
Spring	Bio	195	Independent Studies	3	100%
		199	Independent Studies	9	100%
		281V	Behavioral Ecology Seminar	4	100%
		297	Independent Studies	2	100%
		299	Thesis Research	2	100%

2003-2004

Fall	Bio	140	Behavioral Ecology	79	100%
		195	Thesis Research	2100%	
		199	Tutorial	3	100%
		281V	Behavioral Ecology	4	100%
		297	Independent Studies	2	100%
		299	Thesis Research	2	100%
Winter	Bio	195	Thesis Research	4	100%
		199	Tutorial	8	100%
		143	Herpetology	18	100%
		143L	Herpetology Lab	16	100%
		281V	Behavioral Ecology	4	100%
		297	Independent Studies	2	100%
		299	Thesis Research	2	100%
Spring	Bio	195	Thesis Research	4	100%
		199	Tutorial	14	100%
		281V	Behavioral Ecology	4	100%
		297	Independent Studies	2	100%
		299	Thesis Research	2	100%

2002-2003

Fall	Bio	199	Tutorial	1	100%
		281V	Behavioral Ecology	4	100%
		297	Independent Studies	5	100%
Winter	Bio	140	Behavioral Ecology	72	100%
		140L	Behavioral Ecology Lab	20	50%
		281V	Behavioral Ecology	4	100%
		297	Independent Studies	4	100%
		299	Thesis Research	1	100%
Spring	Bio	195	Thesis Research	1	100%
		199	Tutorial	10	100%
		281V	Behavioral Ecology	3	100%
		297	Independent Studies	7	100%
		299	Thesis Research	3	100%

2001-2002

Fall	Bio	140	Behavioral Ecology	75	100%
		199	Tutorial	1	100%
		281V	Behavioral Ecology	3	100%
		297	Independent Study	3	100%
		299	Thesis Research	1	100%
Winter	Bio	143/L	Herpetology/ Lab	12	50%
		174/274	CSE 272 / ECON 272	25	33%
		199	Tutorial	1	100%
		199F	Tutorial	1	100%
		281V	Behavioral Ecology	4	100%
		297	Independent Study	3	100%

		299	Thesis Research	1	100%
Spring	Bio	198	Field Study	1	100%
		199	Tutorial	3	100%
		281V	Behavioral Ecology	2	100%
		297	Independent Study	2	100%
		299	Thesis Research	2	100%

2000-2001

Fall	Bio	20C	Ecology & Evolution	123	50%
		21C	Accelerated Ecology & Evolution	10	50%
		140	Behavioral Ecology	125	100%
		198	Field Study	2	100%
		199	Tutorial	4	100%
		281V	Behavioral Ecology	4	100%
		297	Independent Study	3	100%
		299	Thesis Research	6	100%
		301	Supervised Teaching Experience	3	100%
Winter	Bio	140/L	Behavioral Ecology Lab	18	50%
		199	Tutorial	2	100%
		281V	Behavioral Ecology	2	100%
		297	Independent Study	2	100%
		299	Thesis Research	5	100%
		301	Supervised Teaching Experience	1	50%
Spring	Bio	198	Field Study	3	100%
		199	Tutorial	1	100%
		281V	Behavioral Ecology	2	100%
		297	Independent Study	2	100%
		299	Thesis Research	3	100%

1999-2000

Fall	Bio	140	Behavioral Ecology	92	100%
		199	Tutorial	1	100%
		281V	Behavioral Ecology	3	100%
		297	Independent Study	5	100%
		301	Supervised Teaching Experience	3	100%
Winter	Bio	143/L	Herpetological Research	12	100%
		193	Field Study	1	100%
		199	Tutorial	1	100%
		294	Ecol/Evol Seminar	38	50%
		281V	Behavioral Ecology	3	100%
		297	Independent Study	1	100%
		301	Supervised Teaching Experience	1	100%
Spring	Bio	195	Thesis Research	1	100%
		198	Field Study	1	100%
		281V	Behavioral Ecology	1	100%
		297	Independent Study	3	100%

1998-1999

Fall	Bio	20C	Ecology and Evolution	69	50%
		140	Behavioral Ecology	86	100%
		199	Tutorial	1	100%
		281V	Behavioral Ecology	3	100%
		297	Independent Study	4	100%
		301	Supervised Teaching Experience	3	100%
Winter	Bio	193	Field Study	2	100%
		281V	Behavioral Ecology	2	100%
		297	Independent Study	1	100%
Spring	Bio	193	Field Study	1	100%
		281V	Behavioral Ecology	2	100%
		297	Independent Study	4	100%

1997-98

Fall	Bio	140	Behavioral Ecology	87	100%
		195	Senior Thesis Research	1	100%
		199	Tutorial	1	100%
		250A	Advanced Organismal Biology	29	33%
		297	Independent Study	4	100%
		301	Supervised Teaching Experience	3	100%
Winter	Bio	195	Senior Thesis Research	2	100%
		199	Tutorial	1	100%
		297	Independent Study	2	100%
Spring	Bio	195	Senior Thesis Research	2	100%
		198	Independent Field Study	3	100%
		297	Independent Study	6	100%

1996-97

Spring	Bio	170	Animal Behavior	138	100%
		301	Supervised Teaching Experience	4	100%

Teaching at Indiana University

1993-1996	S318: Honors Evolutionary Biology
1994	Z620: Graduate Population Genetics
1995	Z620: Graduate Seminar on Physiological Ecology with M. Watson
1994	Z620: Graduate Population Genetics

Service on Foreign Graduate Committees and Sponsorship of Foreign Student, Postdoctoral Study, and Sabbatical visits.

2017-2019: Hosting Fabian Borghetti (CAPES funded Brazil, sabbatical), Gabriel Caetano (2015-2018) (Capes funded Brazil), Luara Torinho (CAPES funded Brazil), Denis Andrade (2018-2019, FAPESP funded São Paulo, sabbatical), Leandro Godinho (2017, CAPES funded, Brazil), Vitor Hugo Cavalcante (2018, CAPES funded, Brazil).

2014 Hosting Sebastian Kirchoff, Germany; Nelsy Pinto, Colombia; Rodrigo Palma, Spain, Senda Reguara, Spain; Braz Titon Jr., Brazil, Rafael Bovo, Brazil, Amanda Kissel, Canada

2012 Octavio Jimenez Robles, Visiting Student, from Ignacio de La Riva's Lab, MNCN Madrid Spain

2011 Vanderlaine Menenzes, U. de Rio de Janeiro, Visiting Postdoc, from C. D. F. Rocha's Lab

2011 Service on Jimena Fernandez's PhD Committee, N. Ibargüengoytia's Lab, University of Comahue, Bariloche, Argentina
 2011 Erika Kubisch, University of Comahue, Bariloche, Argentina
 2009 Marianne Gabirot, PhD student from José Martín's Laboratory, Madrid, France
 2008 Service on Virginie Lepetz's PhD Committee, J. Clobert's Laboratory, CNRS, Paris, France
 2007 Service on Elodie Vercken's PhD Committee, J. Clobert's Laboratory, CNRS, Paris, France
 2006 Sponsor the studies of graduate students from J. Clobert's Laboratory, CNRS, Moulis, France that visited in the Sinervo Lab at UCSC (S. Chamille)
 2003, 2004 Sponsor of the studies of graduate students from J. Clobert's Laboratory, CNRS, Paris, France that visited in the Sinervo Lab at UCSC
 2003 Sponsored the studies of B. Ortiz, graduate student from E. Svensson's Laboratory, Univ. of Lund, Sweden
 2002 Opponent for T. Oksanen, PhD Defense, Jyväskylä University, Jyväskylä Finland
 2002 Sponsor the studies of C. Chamille and Helene Imbert from Jean Clobert's Laboratory, CNRS, Paris, France
 2001 Reader for Ted Rohr's Thesis, University of Sydney, Sydney Australia

Eighteen Graduate Students

<u>Student</u>	<u>Department</u>	<u>Degree Program</u>	<u>Years</u>	<u>Co-Sponsor</u>
Regina Spranger	EEB	Ph.D.	2015-	
Gabriel Caetano	EEB	Ph.D.	2014-	
Carla Sette	EEB	Ph.D.	2013-	
Pauline Blaimont	EEB	Ph.D.	2013-	
Mitchell Mulks	EEB	Ph.D.	2005-	
Joseph Stewart	EEB	Ph.D.	2013-2018	
Ashley Rogers	EEB	Ph.D.	2008-2015	
Beth Bastiaans	EEB	Ph.D.	2006-2013	
Christy Hipsley	EEB	Ph.D.	2005-2012	
Alison, Davis	Biology	Ph.D.	2002-2009	
Lesley Lancaster	Biology	Ph.D.	2002-2008	
Ammon Corl	Biology	Ph.D.	2001-2007	
Brooke Weaver	Biology	Ph.D.	2000-2007	
Gwynne Corrigan	Biology	M.Sc.	1999-2003	
Ryan Calsbeek	Biology	Ph.D.	1997-2001	
Tosha Comendant	Biology	Ph.D.	1997-2002	
Anthony Frankino	Biology	PhD.	1994-1999	Dr. C. Lively (Indiana Univ.)
Yoni Brandt	Biology	PhD.	1995-1999	Dr. E. D. Brodie III, (Indiana Univ.)

Qualifying Exam Committees

Gabriel Caetano, Carla Sette, Joseph Stewart, Pauline Blaimont, Mitchell Mulks, Ashley Rogers, Beth Bastiaans, Christy Hipsley, Alison, Davis, Lesley Lancaster, Ammon Corl, Ryan Calsbeek, Tosha Comendant, Max Tarjan, Dai Shizuka, Brooke Weaver, Ammon Corl, Alison Davis, Antonia D'Amore, Elise Ferree, Alexis Chaine, Lesley Lancaster, Amy Ritter, Chair, Yuri Springer, Brian Ort, Shawn Noren, Sherwood Peckham

Comp Exams

Regina Spranger, Gabriel Caetano, Carla Sette, Joseph Stewart, Pauline Blaimont, Mitchell Mulks, Ashley Rogers, Beth Bastiaans, Christy Hipsley, Alison, Davis, Lesley Lancaster, Ammon Corl, Ryan Calsbeek, Tosha Comendant, Max Tarjan, Dai Shizuka, Chair, Antonia D'Amore, Elise Ferree, Alexis Chaine, Amy Ritter, Chair, Yuri Springer, Brian Ort, Shawn Noren, Sherwood Peckham

Proposal Exams

Carla Sette, Joseph Stewart, Pauline Blaimont, Mitchell Mulks, Ashley Rogers, Beth Bastiaans, Christy Hipsley, Alison, Davis, Lesley Lancaster, Ammon Corl, Ryan Calsbeek, Tosha Comendant, Max Tarjan, Alexis Chaine, Chair, Elise Ferree, Dai Shizuka, Chair, Dan Templin

Thesis Committees

Max Tarjan, Jeff Barna, Ammon Corl, Alexis Chaine, Ryan Calsbeek, Gwynne Corrigan (M.A.), Tosha Comendant, Michelle Wainstein, Josh Elliot (M.A.)

Sixteen Post-Doctoral Fellows

<u>Fellow</u>	<u>Department</u>	<u>Year</u>	<u>Co-Sponsor</u>
Sean Reilly	EEB	2018-	
Rafael Lara-Reséndiz	EEB	2014-2017	
Ammon Corl	EEB	2013-2017	
Victor Luja (UCMexus)	EEB	2012-2013	
Norberto Martínez	EEB	2011-2012	
Dhanarashree Paranjpe	EEB	2006-present	
Andrew MacAdam	EEB	2003-2005	
Shawn Kuchta	EEB	2003-2007	
Suzie Mills	EEB	2003-2006	Dr. Tapio Mappes
Lisa Hazard	EEB	2001-2004	
Colin Bleay	BiologyPh.D.	2000-2002	Dr. A. Houston
Tapio Mappes	Biology	2000-2003	
Christiaan Both	Biology	1999	
Chloe Adamopoulou	Biology	1999-2000	
Erik Svensson	Biology	1997-2003	
Kelly Zamudio	Biology, UC Berkeley	1997-1998	Dr. D.B. Wake
Richard R. Repasky	Biology, Indiana Univ.	1993-1998	