

CURRICULUM VITAE

ESTEBAN FERNÁNDEZ-JURICIC

Professor of Biological Sciences Showalter Faculty Scholar

Citizenship: Born in Argentina (1971); Naturalized US Citizen
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ACADEMIC PREPARATION AND HONORS

Undergraduate education 1990 – 1995 Degree obtained: Biologist
Specialization: Ecology
With Honors
University of Córdoba, *ARGENTINA*.

Graduate education 1996 – 2000 Degree obtained: Philosophy Doctor (Ph.D.)
Specialization: Animal Ecology
Department of Animal Biology
Universidad Complutense de Madrid, *SPAIN*.

Post-doctoral experience 2000 – 2001 Department of Zoology. University of Oxford. *UNITED KINGDOM*.

2001 – 2003 Department of Ecology, Evolution and Behavior. University of Minnesota. *USA*.

Research areas: evolutionary ecology, visual ecology, behavioral ecology, conservation ecology

Methodological approaches: semi-natural experiments, robotic animals, field work, museum specimens, comparative methods, avian eye tracking, bright and fluorescence microscopy, microspectrophotometry, electroretinography, ophthalmic reflex visual field technique, spectrometry, perceptual modeling.

Professional Activities

PREVIOUS POSITIONS

- December 1994 – February 1995 – Research Project Manager at Peninsula Valdes, Argentina. Wildlife Conservation International and Minority International Research Training Program (National Science Foundation, USA).
- March 1996 – November 1996 – Lecturer. University of Córdoba, Argentina.
- January 1996 – November 1996 – Lecturer. The Open University, Córdoba, Argentina.
- March 1996 – November 1996 – Endangered species Project Director. The Open University, Córdoba, Argentina.
- June 1998 – December 1999 – Project Consultant (ARAUCARIA Program for biodiversity conservation in Latin America). Pangea Consultores and Spanish Agency for International Cooperation, Madrid, Spain.
- January 1999 – May 2000 – Director (Urban Ecology Group). Madrid, Spain.
- June 2000 – October 2001 – Research Associate at the Department of Zoology, University of Oxford (United Kingdom).
- October 2001 – July 2003 – Research Associate at the Department of Ecology, Evolution and Behavior (University of Minnesota, USA).
- August 2003 – January 2009 – Assistant Professor, Department of Biological Sciences, California State University Long Beach.
- January 2009 – August 2009 – Assistant Professor, Department of Biological Sciences, Purdue University.
- August 2009 – August 2014 – Associate Professor, Department of Biological Sciences, Purdue University.

PRESENT POSITION: (from August 2014 to present): Professor, Department of Biological Sciences, Purdue University.

AWARDS

- 1995 – Young Biologist Award. Municipality of Córdoba, Argentina.

- 1995 Honorary Mention, Highest GPA in Biological Sciences. University of Córdoba, Argentina.
- 1998-2000 Doctoral fellowship. Funding agency: Spanish Agency for International Cooperation, Spain.
- 2000-2001 Post-doctoral fellowship. University of Oxford, UK. Funding agency: National Research Council, Argentina.
- 2001-2003 Post-doctoral fellowship. University of Minnesota, USA. Funding agency: “la Caixa” Foundation, Spain. Awarded by Juan Carlos I, King of Spain.
- 2010 2009 National Wildlife Research Center – USDA – Outstanding Publication Award for the paper entitled “Avian visual configuration and behavioural response to object approach” published in *Animal Behaviour*.
- 2013 2012 National Wildlife Research Center – USDA – Outstanding Publication Award for the paper entitled “Exploiting avian vision with aircraft lighting to reduce bird strikes” published in the *Journal of Applied Ecology*.
- 2013 College of Science Research Award. Purdue University.
- 2014 University Faculty Scholar. Purdue University.
- 2014 Showalter Faculty Scholar. Purdue University.
- 2016 2015 National Wildlife Research Center – USDA – Outstanding Research Publication Award for the paper entitled “Speed kills: ineffective avian escape responses to oncoming vehicles” published in *Proceedings of the Royal Society of London B*.

SCHOLARLY ACTIVITIES

AWARDED RESEARCH GRANTS AS PI/CO-PI

Before Purdue appointment

- 1996 Bird Life International & “Asociacion Ornitologica del Plata” (Argentina). Role: PI. Vocalizations of parrots in the Argentinean Chaco. Amount: \$250.
- 1997 Ministry of Education, Argentina. Role: PI. Human-wildlife interactions in

- protected areas: the role of behavior to predict wildlife responses. Amount: \$1,500.
- 1999 Queen Sofia Grant, Spain. Role: PI. Urban sprawl as forest fragmentation agent in natural landscapes. Amount: \$5,000.
- 2000 Municipality of Madrid, Spain. Role: PI. Wooded streets as wildlife corridors in urban environments. Amount: \$1,650.
- 2000 Argentinean Research Council. Role: PI. The evolutionary role of neighbor distance in social foraging. Amount: \$1,000.
- 2001/2002 “la Caixa” Foundation, Spain. Role: PI. Effects of visual perception on the coordination of vigilance behavior. Amount: \$3,000.
- 2003 Scholarly and Creative Activities Committee (California State University Long Beach): Mini-grant. Role: PI. Group size vs. neighbor distance: which drives the changes in feeding and vigilant behavior in animal groups? Amount: \$4,000.
- 2004-2008 Funding support for undergraduate research (8 students) from Howard Hughes Medical Institute, Southern California Academy of Sciences, Research Initiative for Scientific Enhancement (RISE) Program (NHI), and Bridges to the Baccalaureate Program for Underrepresented Students (NIH), totaling \$9,850.
- 2005-2006 British Petroleum Leader Award. Role: Co-PI. Responses of wildlife to patterns of human recreation. Implications for the development of a green corridor in Chicago. Amount: \$45,000.
- 2005-2006 Scholarly and Creative Activities Committee (California State University Long Beach): 3 units of release time. Role: PI. Developing a management tool to balance increasing recreational activities in protected areas with wildlife conservation. Amount: \$8,168.
- 2006 Scholarly and Creative Activities Committee (California State University Long Beach): Mini-grant. Role: PI. How do birds see the world? Effects of visual perception on acquiring information about predation. Amount: \$4,000.
- 2006 Mini-grant Department of Biological Sciences (California State University Long Beach). Role: PI. Inter-specific differences in avian visual fields. Amount: \$4,000.
- 2006-2007 Bureau of Reclamation. Department of Interior. Role: PI. Identification of individual and population level variation in Southwestern Willow Flycatcher (*Empidonax traillii extimus*) vocalizations: applications for tracking individuals in time and space. Amount: \$20,000.

- 2006-2008 Orange County Vector Control District. Role: PI. Genetic variability and gene flow in house finch populations in Orange County: implications for the spread of West Nile Virus. Amount: \$10,000.
- 2006-2007 USDA/APHIS/WS - National Wildlife Research Center. Role: PI. Visual acuity and visual fields of two bird species implicated in bird-aircraft collisions: Brown-headed Cowbird and Mourning Dove. Amount: \$6,500.
- 2007-2009 Nature Reserve of Orange County. Role: Co-PI. A Novel Approach for the Estimation of Buffer Areas to Protect Endangered and Threatened Species. Amount: \$2,000.
- 2007-2009 National Institutes of Health (SCORE program). Role: PI. Developing an alternative animal model system to study the biological basis of visual social perception. Amount: \$208,333.
- 2007-2010 National Science Foundation. Role: PI. The effects of the trade-off between visual acuity and visual fields on anti-predator behavior in social foraging birds. Amount: \$164,995

Since Purdue appointment

External funding awarded

- Role: PI. Effects of the trade-off between visual acuity and visual fields on anti-predator behavior in social foraging birds. Funding agency: National Science Foundation. Period: 2009-2011. Total award: \$142,070
- Role: PI. Visual properties of the Canada goose: Implications for bird-aircraft collision. Funding agency: US Department of Agriculture. Period: 2009-2011. Total award: \$25,500.
- Role: PI. Improving the effectiveness of an automatic system to deter birds with different visual systems from airports. Funding agency: Bird Raptor International. Period: 2009-2011. Total award: \$102,252.
- Role: PI. Different in seed consumption in bird feeders under different ecological conditions. Funding agency: Kaytee Avian Foundation. Period: 2009. Total award: \$2,000.
- Role: Co-PI. PI: Pat Zollner (FNR – Purdue). Using virtual ecology techniques to inform the recreational planning of Fort Harrison State Park. Funding agency: Indiana Department of Natural Resources. Period: 2010. Total award: \$12,800.
- Role: PI. An experimental test of bird-feeder color preferences in finches. Funding agency: Kaytee Avian Foundation. Period: 2010-2011. Total award: \$12,860.

- Role: PI. Developing an onboard alert system to minimize bird collisions with aircraft. Funding agency: Lindbergh Foundation. Period: 2011-2012. Total award: \$10,550.
- Role: PI. How do American Goldfinches (*Carduelis tristis*) see bird feeders and seeds? Applications for the backyard bird feeding industry. Funding agency: Central Garden & Pet Inc. Period: 2011-2012. Total award: \$24,200.
- Role: PI. Temporal visual resolution in birds: implications for bird-strikes. Funding agency: US Department of Agriculture. Period: 2011-2013. Total award: \$42,162.
- Role: PI. The effects of military working dogs on nesting California least tern and western snowy plover at Naval Base Coronado, San Diego, California. Funding agency: US Army Corps of Engineers. Period: 2012-2016. Total award: \$148,687.
- Role: PI. Effect of radar on bird behavior. Funding agency: US Department of Agriculture. Period: 2010-2015. Total award: \$179,615.
- Role: PI. Understanding behavioral predator-prey interactions from a visual sensory perspective. Funding agency: National Science Foundation. Period: 2012-2017. Total award: \$385,000.
- Role: PI. Collaborative proposal (with Iain D. Couzin - Princeton University). The perceptual basis of collective behavior in a model vertebrate. Funding agency: National Science Foundation (EAGER program). Period: 2013-2016. Total award: \$180,000.
- Role: PI. Retinal physiology of red-winged blackbirds: implications for human-wildlife conflicts. Funding agency: US Department of Agriculture. Period: 2014-2016. Total award: \$36,000.
- Role: PI. A novel method to minimize bird strikes through onboard lighting systems. Funding agency: US Department of Agriculture. Period: 2014-2017. Total award: \$299,114
- Role: Co-PI (with PI Robert Magrath - Australian National University). Not lost in translation: how to get information from other species' calls? Funding agency: Australian Research Council. Period: 2015-2018. Total award: \$336,605.
- Role: PI. Effects of lasers for seabird bycatch prevention on avian retinal health. Funding agencies: Packard Foundation and National Fish and Wildlife Foundation. Period: 2016-2019. Total award: \$254,000.
- Role: PI. Mosaic Reflective Surfaces as Avian Collision Deterrents. Funding agency: InnoSense LLC. Period 2016-2017. Total award: \$45,000
- Role: PI. Reducing collisions between birds and solar panels. Funding agency: Lynntech Inc. Period 2016-2017. Total award: \$44,000.

Internal funding awarded

- 2010 International Travel Grant. Purdue Research Foundation. Period: 2010. Total award: \$1,000.

Grant proposals awarded being processed

- Role: PI. Understanding the Eagle Sensory World to Enhance Detection and Response to Wind Turbines. Funding agency: Department of Energy. Period 2017-2019. Total award: \$300,000.

- Role: PI. Understanding the Golden and Bald Eagle sensory worlds to enhance detection and response to wind turbines. Funding agency: Avangrid Renewables. Period 2017-2019. Total award: \$226,000.

AWARDED RESEARCH GRANTS AS RESEARCH ASSOCIATE

2006-2009 Beckman Scholars Program to support research activities of outstanding undergraduates. Role: Research Associate.

2009-2011 National Evolutionary Synthesis Center (funded by NSF). International workgroup to synthesize information on the evolution of visual systems in vertebrates. Role: Research Associate.

PUBLICATIONS

(* indicates undergraduate student participating as co-author)

Book:

Blumstein, D.T. & E. **Fernández-Juricic**. 2010. A Primer of Conservation Behavior. Sinauer Associates, Sunderland. ISBN 978-0-87893-401-0

Scientific publications (150):

Fernández, J.L., J.D. Perez Ávila, R. Pinkevicius, M. de la Colina, J. Gómez & E. **Fernández-Juricic**. 1997. Response to treatments with neoadjuvancy and surgery of patients with no-small lung cancer (stages IIIa and IIIb). REVISTA ARGENTINA DE CIRUGÍA 73:6-8. (In Spanish with summary in English)

Fernández-Juricic, E., E.V. Alvarez & M.B. Martella. 1997. Seasonal variation in the abundance of Blue-crowned Conures (*Aratinga acuticaudata*) at the Chancaní Reserve, Córdoba, Argentina. HORNERO 14:259-262. (In Spanish with summary in English)

Fernández-Juricic, E., E.V. Alvarez & M.B. Martella. 1998. Vocalizations of Blue-crowned Conures (*Aratinga acuticaudata*) in the Chancaní Reserve, Córdoba, Argentina. ORNITOLOGÍA NEOTROPICAL 9:31-40.

Fernández-Juricic, E., M.B. Martella & E.V. Alvarez. 1998. Vocalizations of the Blue-fronted Amazon (*Amazona aestiva*) in the Chancaní Reserve, Córdoba Argentina. WILSON BULLETIN 110: 352-361.

Fernández-Juricic, E., E.V. Alvarez & M.B. Martella. 1998. Current status of the Blue-fronted Amazon in the Southern border of its distributional range. ARDEOLA 45:77-82. (In Spanish with summary in English)

Fernández-Juricic, E., C. Campagna, V. Enriquez & C.L. Ortiz. 1999. Vocal communication and individual variation in breeding South American sea lions. BEHAVIOUR 136: 495-517.

Fernández-Juricic, E. & J.L. Tellería. 1999. Recruitment patterns of blackbirds (*Turdus merula*) in urban fragmented populations. ARDEOLA 46:61-70.

Fernández-Juricic, E & M.B. Martella. 2000. Guttural calls of Blue-fronted Amazons: structure, context, and their possible role in short-range communication. WILSON BULLETIN 112:35-43.

Fernández-Juricic, E. & J.L. Tellería. 2000. Effects of human disturbance on blackbird (*Turdus merula*) spatial and temporal feeding patterns in urban parks of Madrid (Spain). BIRD STUDY 47:13-21.

Fernández-Juricic, E. 2000. Fragmentation affects winter flock formation of an insectivorous guild. ARDEA 88: 235-242.

Fernández-Juricic, E. 2000. Local and regional effects of pedestrians on forest birds in a fragmented landscape. CONDOR 102:247-255.

Fernández-Juricic, E. 2000. Conservation education: the need for regional approaches supporting local initiatives. WILDLIFE SOCIETY BULLETIN 28:164-167.

Fernández-Juricic, E. 2000. Avifaunal use of wooded streets in an urban landscape. CONSERVATION BIOLOGY 14:513-521.

Fernández-Juricic, E. 2000. Bird community composition patterns in urban parks of Madrid: the role of age, size and isolation. ECOLOGICAL RESEARCH 15:373-383.

Tellería, J.L., J. Pérez-Tris, A. Ramírez*, E. **Fernández-Juricic** & R. Carbonell. 2001. Distribution of robins *Erithacus rubecula* in wintering grounds: effects of conspecific density, migratory status and age. ARDEA 89:363-373.

- Fernández-Juricic, E.** 2001. Density dependent habitat selection of corridors in a fragmented landscape. *IBIS* 143:278-287.
- Fernández-Juricic, E., C. Campagna, V. Enriquez, & C.L. Ortiz.** 2001. Vocal rates and social context in male South American sea lions. *MARINE MAMMAL SCIENCE* 17:387-396.
- Fernández-Juricic, E. & J. Jokimäki.** 2001. A habitat island approach to conserving birds in urban landscapes: case studies from southern and northern Europe. *BIODIVERSITY AND CONSERVATION* 10:2023-2043.
- Fernández-Juricic, E.** 2001. Avian spatial segregation at edges and interiors of urban parks in Madrid, Spain. *BIODIVERSITY AND CONSERVATION* 10: 1303-1316.
- Fernández-Juricic, R. Sanz* & E.A. Sallent*.** 2001. Frequency-dependent predation by birds at edges and interiors of woodland. *BIOLOGICAL JOURNAL OF THE LINNEAN SOCIETY* 73:43-49.
- Fernández-Juricic, E., M.D. Jimenez* & E. Lucas*.** 2001. Bird tolerance to human disturbance in urban parks of Madrid, Spain. Management Implications. *Avian Ecology and Conservation in an Urbanizing World* (eds J. M. Marzluff, R. Bowman & R. Donnelly), pp. 261-275. Kluwer Academic, Norwell, MA, USA.
- Fernández-Juricic, E., M.D. Jimenez* & E. Lucas*.** 2001. Alert distance as an alternative measure of bird tolerance to human disturbance: implications for park design. *ENVIRONMENTAL CONSERVATION* 28:263-269.
- Alonso, W.J. & E. **Fernández-Juricic.** 2002. Regional network raises profile of local journals. *NATURE* 415:471-472 (Correspondence section)
- Fernández-Juricic, E.** 2002. Can human disturbance promote nestedness? A case study with birds in an urban fragmented landscape. *OECOLOGIA* 131:269-278.
- Fernández-Juricic, E., M.D. Jimenez* & E. Lucas*.** 2002. Factors affecting intra- and inter-specific variations in the difference between alert and flight distances in forested habitats. *CANADIAN JOURNAL OF ZOOLOGY* 80:1212-1220.
- Fernández-Juricic, E.** 2002. Nested patterns of species distribution and winter flock occurrence of insectivorous birds in a fragmented landscape. *ECOSCIENCE* 9: 450-458.
- Fernández-Juricic, E., W.J. Alonso & C. Schuck-Paim.** 2002. Peer-review to select academic job applicants. *NATURE* 420:16. (Correspondence section).
- Fernández-Juricic, E., C. Campagna & D. San Mauro*.** 2003. Variations in the arrangement of South American sea lion male vocalizations during the breeding season: patterns and contexts. *AQUATIC MAMMALS* 29: 289-296.

Fernández-Juricic, E., A. Sallent*, R. Sanz* & I. Rodríguez-Prieto. 2003. Testing the risk-disturbance hypothesis in a fragmented landscape: nonlinear responses of House Sparrows to humans. *CONDOR* 105: 316-326.

Cassini, M.H. & E. **Fernández-Juricic.** 2003. Costs and benefits of joining South American sea lion breeding groups: testing the assumptions of a model of female breeding dispersion. *CANADIAN JOURNAL OF ZOOLOGY* 81: 1154-1160.

Fernández-Juricic, E. & N. Schroeder*. 2003. Do variations in scanning behavior affect tolerance to human disturbance? *APPLIED ANIMAL BEHAVIOUR SCIENCE* 84:219-234.

Fernández-Juricic, E., J.T. Erichsen & A. Kacelnik. 2004. Visual perception and social foraging in birds. *TRENDS IN ECOLOGY AND EVOLUTION* 19: 25-31.

Fernández-Juricic, E., R. Vaca* & N. Schroeder*. 2004. Spatial and temporal responses of forest birds to human approaches in a protected area and implications for two management strategies. *BIOLOGICAL CONSERVATION* 117: 407-416.

Fernández-Juricic, E. & A. Kacelnik. 2004. Information transfer and gain in flocks: the effects of quantity and quality of social information at different neighbour distances. *BEHAVIORAL ECOLOGY AND SOCIOBIOLOGY* 55: 502-511.

Fernández-Juricic, E., S. Siller & A. Kacelnik. 2004. Flock density, social foraging and scanning: an experiment with starlings. *BEHAVIORAL ECOLOGY* 15: 371-379.

Fernández-Juricic, E. 2004. Spatial and temporal analysis of the distribution of forest specialists in an urban-fragmented landscape (Madrid, Spain). Implications for local and regional bird conservation. *LANDSCAPE AND URBAN PLANNING* 69: 17-32.

Blumstein, D.T., E. **Fernández-Juricic**, O. LeDee, E. Larsen, I. Rodríguez-Prieto* & C. Zugmeyer. 2004. Avian risk assessment: effects of perching height and detectability. *ETHOLOGY* 110: 273-285.

Fernández-Juricic, E., J. Jokimäki, J. McDonald*, F. Melado*, A. Toledano*, C. Mayo*, B. Martín*, I. Fresneda* & V. Martín*. 2004. Effects of opportunistic predation on anti-predator behavioural responses in a guild of ground foragers. *OECOLOGIA* 140: 183-190.

Beauchamp, G. & E. **Fernández-Juricic.** 2004. Is there a relationship between forebrain size and group size in birds? *EVOLUTIONARY ECOLOGY RESEARCH* 6: 833-842.

Cassini, M.H., D. Szteren & E. **Fernández-Juricic.** 2004. Fence effects on the behavioural responses of South American fur seals towards tourist approaches. *JOURNAL OF ETHOLOGY* 22: 127-133.

Blumstein, D.T. & E. **Fernández-Juricic.** 2004. The emergence of conservation behavior. *CONSERVATION BIOLOGY* 18: 1175-1177.

Fernández-Juricic, E., B. Kerr, P.A. Bednekoff, D.W. Stephens. 2004. When are two heads better than one? Visual perception and information transfer affect vigilance coordination in foraging groups. *BEHAVIORAL ECOLOGY* 15: 898-906.

Stephens, D.W., B. Kerr & E. **Fernández-Juricic.** 2004. Impulsiveness without discounting: the ecological rationality hypothesis. *PROCEEDINGS OF THE ROYAL SOCIETY OF LONDON B* 271: 2459-2465.

Rodríguez-Prieto, I. & E. **Fernández-Juricic.** 2005. Effects of direct human disturbance on the endemic Iberian frog *Rana iberica* at individual and population levels. *BIOLOGICAL CONSERVATION* 123: 1-9.

Fernández-Juricic, E., R. Smith & A. Kacelnik. 2005. Increasing the costs of conspecific scanning in socially foraging starlings affects vigilance and foraging behaviour. *ANIMAL BEHAVIOUR* 69: 73-81.

Beauchamp, G. & E. **Fernández-Juricic.** 2005. The group size paradox: effects of learning and patch departure rules. *BEHAVIORAL ECOLOGY* 16: 352-357.

Jokimäki, J., Kaisanlahti-Jokimäki, M.-L., Sorace, A., **Fernández-Juricic, E.** Rodriguez-Prieto*, I. & M.D. Jimenez*. 2005. Evaluation of the “safe nesting zone” hypothesis across an urban gradient: a multi-scale study. *ECOGRAPHY* 28: 59-60.

Blumstien, D.T., E. **Fernández-Juricic,** P.A. Zollner & S.C. Garity. 2005. Inter-specific variation in avian responses to human disturbance. *JOURNAL OF APPLIED ECOLOGY* 42: 943-953.

Fernández-Juricic, E., P. Venier*, D. Renison & D.T. Blumstein. 2005. Sensitivity of wildlife to spatial patterns of recreationist behavior: a critical assessment of minimum approaching distances and buffer areas for grassland birds. *BIOLOGICAL CONSERVATION* 125: 225-235.

Fernández-Juricic, E., R. Poston, K. De Collibus, T. Morgan, B. Bastain, C. Martin, K. Jones & R. Treminio. 2005. Microhabitat selection and singing behavior patterns of male house finches (*Carpodacus mexicanus*) in urban parks in a heavily urbanized landscape in the Western U.S. *URBAN HABITATS* 3 (2): ISSN 1541-7115.
http://www.urbanhabitats.org/v03n01/finch_pdf.pdf

Devereux, C.L., M.J. Whittingham, E. **Fernández-Juricic,** J.A. Vickery & J.R. Krebs. 2006. Predator detection and avoidance by starlings under differing scenarios of predation risk. *BEHAVIORAL ECOLOGY* 17: 303-309.

Fernández-Juricic, E., N. Gilak*, J.C. McDonald*, P. Pithia* & A. Valcarcel*. 2006. A dynamic method to study the transmission of social foraging information in flocks using robots. *ANIMAL BEHAVIOUR* 71: 901-911.

Fernández-Juricic, E., D.T. Blumstein, G. Abrica*, L. Manriquez*, L. Bandy Adams*, R. Adams*, M. Daneshrad* and I. Rodriguez-Prieto. 2006. Relationships of anti-predator escape and post-escape responses with body mass and morphology: a comparative avian study. *EVOLUTIONARY ECOLOGY RESEARCH* 8: 731-752.

Devereux, C.L., M.J. Whittingham, J.R. Krebs, E. **Fernández-Juricic** & J.A. Vickery. 2006. What attracts birds to newly mown pasture? Decoupling the action of mowing from the provision of short swards. *IBIS* 148: 302-306.

Rodríguez-Prieto, I. E. **Fernández-Juricic** & J. Martín. 2006. Anti-predator behavioral responses of mosquito pupae to aerial predation risk. *JOURNAL OF INSECT BEHAVIOR* 19: 373-381.

Devereux, C.L., J.A. Vickery, E. **Fernández-Juricic**, J.R. Krebs & M.J. Whittingham. 2006. Does sward density affect prey availability for grassland birds? *AGRICULTURE, ECOSYSTEMS AND ENVIRONMENT* 117: 57-62.

Snellen, C.L., P.J. Hodum & E. **Fernández-Juricic**. 2007. Assessing western gull predation on purple sea urchins in the rocky intertidal using optimal foraging theory. *CANADIAN JOURNAL OF ZOOLOGY* 85: 221-231.

Heil*, L., E. **Fernández-Juricic**, D. Renison, A. Cingolani & D. T. Blumstein. 2007. Avian responses to tourism in the biogeographically isolated high Córdoba Mountains, Argentina. *BIODIVERSITY AND CONSERVATION* 16: 1009-1026.

Fernández-Juricic, E. & M.H. Cassini. 2007. Intra-sexual female agonistic behaviour of the South American sea lion (*Otaria flavescens*) in two colonies with different breeding substrates. *ACTA ETHOLOGICA* 10: 23-28.

Fernández-Juricic, E., G. Beauchamp & B. Bastain*. 2007. Group-size and distance-to-neighbour effects on feeding and vigilance in Brown-headed Cowbirds. *ANIMAL BEHAVIOUR* 73: 771-778.

Fernández-Juricic, E. & E. Tran*. 2007. Changes in vigilance and foraging behaviour with light intensity and their effects on food intake and predator detection in house finches. *ANIMAL BEHAVIOUR* 74: 1381-1390.

Fernández-Juricic, E., P.A. Zollner, C. LeBlanc & L. M. Westphal. 2007. Responses of nestling black-crowned night herons (*Nycticorax nycticorax*) to aquatic and terrestrial recreational activities: a manipulative study. *WATERBIRDS* 30: 554-565.

Morgan*, T. & E. **Fernández-Juricic**. 2007. The effects of predation risk, food abundance, and population size on group size of brown-headed cowbirds (*Molothrus ater*). *ETHOLOGY* 113: 1173-1184.

García, C., D. Renison, A. M. Cingolani & E. **Fernández-Juricic**. 2008. Avifaunal changes as a

consequence of large scale livestock exclusion in the mountains of Central Argentina. JOURNAL OF APPLIED ECOLOGY 45: 351-360.

Fernández-Juricic, E. & G. Beauchamp. 2008. An experimental analysis of spatial position effects on foraging and vigilance in Brown-headed Cowbird flocks. ETHOLOGY 114: 105-114.

Rogers, B.L., C.G. Lowe, E. **Fernández-Juricic** & L.R. Frank. 2008. Utilizing magnetic resonance imaging (MRI) to assess the effects of angling-induced barotrauma on rockfish (*Sebastes*). CANADIAN JOURNAL OF FISHERIES AND AQUATIC SCIENCES 65: 1245-1249.

Rodríguez-Prieto, I. E. **Fernández-Juricic** & J. Martín. 2008. To run or to fly: low cost versus low risk escape strategies in blackbirds. BEHAVIOUR 145: 1125-1138.

Devereux, C.L., E. **Fernández-Juricic**, J.R. Krebs & M.J. Whittingham. 2008. Habitat affects escape behaviour and alarm calling in Common Starlings *Sturnus vulgaris*. IBIS 150 (S1): 191-198.

Fernández-Juricic, E. M.D. Gall, T. Dolan, V. Tisdale & G.R. Martin. 2008. The visual fields of two ground foraging birds, House Finches and House Sparrows, allow for simultaneous foraging and anti-predator vigilance. IBIS 150: 779-787.

Fernández-Juricic, E., A. del Nevo & R. Poston. 2009. Identification of individual and population level variation in vocalizations of the endangered Southwestern Willow Flycatcher (*Empidonax traillii extimus*). AUK 126: 89-99.

Blackwell, B.F, E. **Fernández-Juricic**, T.W. Seamans & T. Dolan. 2009. Avian visual system configuration and behavioural response to object approach. ANIMAL BEHAVIOUR 77: 673-684.

Gall, M.D. & E. **Fernández-Juricic**. 2009. Effects of physical and visual access to prey on patch selection and food search effort in a sit-and-wait predator, the Black Phoebe. CONDOR 111: 150-158.

Bennett, V.J, M. Beard, P.A. Zollner, E. **Fernández-Juricic**, L. Westphal & C.L. LeBlanc. 2009. Understanding wildlife responses to human disturbance through simulation modelling: a management tool. ECOLOGICAL COMPLEXITY 6: 113-134.

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- Doppler*, M., B. Moore*, J. Young*, and E. Fernandez-Juricic. Visual fields and eye movements of titmice and chickadees. 18th Annual Animal Behavior Conference. Bloomington, IN. April 2011.
- Pita*, D., B. A. Moore, E. Fernandez-Juricic. Visual fields and foraging techniques in Blue Jays and Red-winged Blackbirds. Animal Behavior Society meeting, Indiana University, Bloomington, IN, July 2011
- Fernández-Juricic, E. G. Beauchamp, R. Treminio* & M. Hoover*. Association between head movements during vigilance and perceived predation risk in brown-headed cowbird flocks Animal Behavior Society meeting, Indiana University, Bloomington, IN, July 2011
- Elmore*, A.G., M. B. Toomey, & E. Fernandez-Juricic; 2012; The sensory basis of individual variation in color vision: a case study with house finches; Center for the Integrative Study of Animal Behavior (CISAB) Conference; Indiana University (Bloomington, IN); March 2012
- Young*, J., M. Doppler*, B. A. Moore and E. Fernandez-Juricic. Visual resolution differs within the retina of ground and tree avian foragers to different degrees: ecological implications. 127th Annual Indiana Academy of Science Meeting. West Lafayette IN. March 2012.
- Pita*, D., B. A. Moore*, E. Fernandez-Juricic. How do small birds see? Visual field configuration and eye movements in closely related sparrows. Center for the Integrative Study of Animal Behavior Conference, Indiana University, Bloomington, IN, April 2012.
- Randolet, J., Lucas, J. R., Fernandez-Juricic, E. (2012) Mixed messages: to what do you pay attention? Poster presented at *Animal Behavior Society and Human Behavior and Evolution Society Conference* (Albuquerque, NM).
- Randolet, J., Lucas, J. R., Fernandez-Juricic, E. (2012) Group mates: How closely are their vigilance levels monitored? Poster presented at *Indiana Academy of Science Conference* (West Lafayette, IN) and *Center for the Integrative Study of Animal Behavior Conference* (Bloomington, IN).
- Miller*, S., Ensminger AL, Fernandez-Juricic E. 2012, Density of P-type oil droplets in house sparrows, Purdue University, West Lafayette, IN, July 2012 LSAMP - "Louis Stokes Alliance for Minority Participation
- Ronald, K. L., Fernandez-Juricic, E., and Lucas, J. R. Individual differences in auditory and visual processing in a song-bird, *Molothrus ater*. *Animal Behavior Society Conference* University of New Mexico, Albuquerque, NM July 2012
- Fernandez-Juricic, E., A. Ojeda, M. Deisher*, B. Burry*, A. Stark*, P. Baumhardt, A. Elmore* & A. Ensminger. Sex-differences in the visual system and scanning behavior of brown-headed cowbirds. Animal Behavior Society meeting, University of New Mexico, Albuquerque, NM July 2012.
- Moore, B.A., M. Doppler, E. Fernandez-Juricic. Interspecific differences in the visual system and scanning behavior of three forest passerines that form heterospecific flocks. Merial-NIH Conference, Colorado State University, August 2012.
- Pita*, D., B.A. Moore, L. Tyrrell, E. Fernandez-Juricic. How do small birds see? Relationships in binocularity and bill morphology in closely related sparrows. Purdue College of Science

- Research Symposium, Purdue University, West Lafayette, IN, April 2013.
- Ronald, K. L., Fernandez-Juricic, E., and Lucas, J. R. Hunger, Hormones, and Hearing: Frequency Sensitivity in a Song Bird. *Center for Integrated Studies in Animal Behavior Conference* Indiana University, Bloomington, IN March 2013
 - Ronald, K. L., Fernandez-Juricic, E., and Lucas, J. R., Differences in Hearing Sensitivity in a Song Bird March *Indiana Academy of Science Annual Meeting* Indianapolis, IN March 2013
 - Ronald, K. L., Fernandez-Juricic, E., and Lucas, J. R. Differences in Hearing Sensitivity in a Song Bird *Hearing Seminar Series* Purdue University, West Lafayette, IN January 2013
 - Abplanalp*, B., L.P. Tyrrell, B.A. Moore, J. Hanchar*, and E. Fernandez-Juricic. 2013. Visual ecology of red-winged blackbirds and common grackles. *Animal Behavior Conference*, Bloomington, IN. March 2013
 - Doppler, M., B.F. Blackwell, E. Fernandez-Juricic. Cowbird responses to lights tuned to its visual system: implications for bird-aircraft collisions. *Animal Behavior Society meeting*, Boulder, CO. August 2013.
 - Ensminger, AL, TL Pearson*, GJ Todd*, E Fernández-Juricic. How head positions and movement rates are related to chromatic contrast and visual physiology. *Animal Behavior Society meeting*, Boulder, CO. August 2013.
 - Ronald, KL, E Fernandez-Juricic, JR Lucas Tradeoffs in Auditory and Temporal Resolution in a Songbird (*Molothrus ater*). *Animal Behavior Society meeting*, Boulder, CO. August 2013.
 - Tyrrell, L.P. and E. Fernández-Juricic. Upward projecting fovea in the eastern meadowlark (*Sturnella magna*). *Society of Integrative and Comparative Biology* (Austin, TX) January 2014.
 - Fernández-Juricic, E., Shoemaker*, A.L., Nelson*, M.M. & Moore*, B.A. What makes a head turn? Vigilance behavior is associated with biomechanical constraints and retinal configuration. *2014 International Society for Behavioral Ecology meeting*. New York. July 2014.
 - Fernández-Juricic, E., A.L. Ensminger & G. Todd. The visual paradox of avian ground foragers: grabbing a bite with peripheral vision. *51st Annual Conference of the Animal Behavior Society*. Princeton, NJ. August 2014.
 - Ronald, K.L. E. Fernández-Juricic & J.R. Lucas. The role of multimodal sensory reception in female mating decisions. *51st Annual Conference of the Animal Behavior Society*. Princeton, NJ. August 2014.
 - Butler, S.R., & E. Fernández-Juricic. Did you see that? European Starlings follow the gaze direction of conspecifics. *51st Annual Conference of the Animal Behavior Society*. Princeton, NJ. August 2014.
 - Pita, D., & E. Fernández-Juricic. Vision in zebrafish: implications for collective behavior. *51st Annual Conference of the Animal Behavior Society*. Princeton, NJ. August 2014.
 - Butler, SR. and E. Fernández-Juricic. Did you see that? European starlings follow the gaze direction of conspecifics. *Animal Behavior Conference*, Bloomington, IN. April 24 2014.
 - Fernández-Juricic, E., B.F. Blackwell & T. L. DeVault. Conceptual basis of a lighting system tuned to the bird eye to minimize collisions with wind turbines. *10 Wind Wildlife Research Meeting*. Broomfield, Colorado. December 2014.
 - Fernández-Juricic, E., B.F. Blackwell & T. L. DeVault. Planning and design issues of LED lighting at airports: ecological and safety considerations in airfield lighting. *Transportation Research Board 94th Annual Meeting*. Washington DC. January 2015.
 - Tyrrell, L.P., S.R. Butler, J.L. Yorzinski, and E. Fernández-Juricic. A novel system for eye-tracking in small birds. *Society of Integrative and Comparative Biology* (West Palm Beach, FL) January 2015.

- Melvin, E. & E. Fernández-Juricic. Laser technology for seabird bycatch prevention in commercial fisheries. 42nd Pacific Seabird Group Annual Meeting. San Jose, California. February 2015.
- Butler, SR., Hosinski* E.C., Fernández-Juricic, E. Spatial scanning patterns in European starlings. March, 2015 at Center for the integrative study of animal behavior (CISAB), Indiana University, Bloomington IN.
- Butler, SR., Hosinski* E.C., Fernández-Juricic, E. Vigilance copying in European starlings. August 2015. American Ornithologist Union Meeting, Oklahoma.
- Fernández-Juricic, E. & A. Ensminger. Grabbing a bite with peripheral vision: the avian ground forager visual paradox. August 2015. American Ornithologist Union Meeting, Oklahoma.
- Tyrrell, L.P. and E. **Fernández-Juricic**. The hawk-eyed songbird. [Talk] *J.B. Johnston Club for Evolutionary Neuroscience* (Chicago, IL). November 2015.
- **Fernández-Juricic**, E., A.L. Shoemaker*, M.M. Nelson* & B.A. Moore. What makes a head turn? Vigilance behavior is associated with biomechanical constraints and retinal configuration. *J.B. Johnston Club for Evolutionary Neuroscience* (Chicago, IL). November 2015.
- Pita, D., B.A. Moore, L.P. Tyrrell, & E. **Fernández-Juricic**. Eye see what you did there: how vision shapes social behavior in minnows. Next Generation Scholars Research Fair. Purdue University. November 2015.
- Ronald, K. L., **Fernandez-Juricic**, E., and Lucas, J. R. Estrogen mediated changes in the auditory system: implications for songbird mating preferences. [Talk] *Hearing Seminar Series* Purdue University, West Lafayette, IN. November 2015.
- Pita, D., & E. **Fernández-Juricic**. Vision in zebrafish: implications for collective behavior. Biological Sciences Graduate Recruitment Poster Session. Purdue University. January 2016.
- Ronald, K. L., **Fernandez-Juricic**, E., and Lucas, J. R. Multimodal signal preferences in birds: visual display intensity modulates song attractiveness. [Talk] *EcoLunch: Ecology Seminar Series*. Purdue University, West Lafayette, IN. February 2016.
- Ronald, K.L., D.J. White, E. **Fernández-Juricic**, and J.R. Lucas. What makes a multimodal signal attractive? A preference function approach. [Talk] *Animal Behavior Society* (Columbia, MO). August 2016.
- Ronald, K.L., D.J. White, E. **Fernández-Juricic**, and J.R. Lucas. What makes a multimodal signal attractive? A preference function approach. [Talk] *Center for Integrated Studies in Animal Behavior Conference* (Bloomington, IN). April 2016
- Jarvis*, H.V., A.G. Ossip-Klein, K. L. Ronald, E. **Fernández-Juricic**, D.K. Hews, E.P. Martins. 2016. Visual resolution of two species of *Sceloporus* lizards that differ in ventral coloration [Poster] *Center for Integrated Studies in Animal Behavior Conference* Indiana University, Bloomington. April 2016.

RESEARCH STUDENT MENTORING (before Faculty appointment)

- 1995 Supervision of 2 students from American Universities in research activities in Patagonia, Argentina. Minority International Research Training Program (National Science Foundation, USA).
- 1998-2001 Supervision of 16 graduate and undergraduate students in different research projects. Urban Ecology Group, Madrid, Spain.

- 2001-2003 Supervision of 6 undergraduate theses. National University of Córdoba, Argentina.
- 2003 - 2006 Claire Deveraux (Ph.D. student). Co-supervision. Main advisors: Mark Whittingham and John Krebs and. Agricultural intensification and foraging strategies of grassland birds. Department of Zoology, University of Oxford, UK.
- 2004- 2010 Iñaki Rodríguez-Prieto (Ph.D. Student). Co-supervision with Jose Martin. The behavioral ecology of habituation effects in lizards. Museo de Ciencias Naturales de Madrid, Spain.

RESEARCH STUDENT MENTORING (after Faculty appointment)

Former research undergraduate students: ~ 200

Former graduate students: 19 (Rachael Poston⁺, Vanessa Tisdale⁺, Cara Snellen⁺, Anna Valcarcel⁺, Megan Gall⁺, Tracy Dolan⁺, Colleen O'Rourke⁺, Bonnie Rogers⁺, Patrice Baumhardt⁺, Kimberly Oldehoeft⁺, Victor Kowalski⁺, Agustin Ojeda⁺, Tim Morgan⁺, Juanita Losier⁺, Jacquelyn Randolet⁺, Cristhian Mace⁺, Megan Doppler⁺, Ellie Sheridan⁺, Bret Moore*, Kelly Ronald*, Luke Tyrrell*, Shannon Butler*).

⁺ *Masters*; * *Ph.D.*

Former undergraduate honors students (4):

- Amy C. Stark. Graduated in 2011 (2 publications)
- Amanda Elmore. Graduated in 2013 (1 manuscript in preparation)
- Diana Pita. Graduated in 2013 (1 publication)
- Claire Hosinski. Graduate in 2015 (1 manuscript in preparation)

Former Post-docs:

- Dr. Amanda Ensminger (2011-2014)
- Dr. Jessica Yorzinski (2013-2015)

Current Ph.D. students (1):

- Diana Pita

Current Masters students (1):

- Arden Blumenthal

Student awards since Purdue appointment

- Megan Doppler (Masters student in my lab) got one of the SROP Program fellowships to do research in my lab over the summer 2011 (Purdue University)
- Jacquelyn Randolet (Masters student in my lab) got a grant from the Indiana Academy of

Sciences in 2011 to complete her research project.

- Bret Moore (Ph.D. student in my lab): Graduate Student Fellowship from the National Evolutionary Synthesis Center (NESCent) through the Department of Biology at Duke University. 2010-2011.
- Bret Moore (Ph.D. student in my lab and DVM student) got the 2012 Merit-NIH Veterinary Scholar Research Fellowship.
- Amanda Elmore (research undergraduate student in my lab) got the 2nd place – Life Sciences in the 2012 Purdue Undergraduate Research Symposium.
- Amanda Elmore (research undergraduate student in my lab) got the Best Abstract Award – Life Sciences in the 2012 Purdue Undergraduate Research Poster Symposium.
- Ryan Cross (research undergraduate student in my lab) got the 2013 William H. Phillips summer research internship.
- William Nichols (research undergrad student in my lab) got the 2014 McAtee award for summer research.
- Luke Tyrrell. Purdue Graduate Student Government Travel Grant. 2014
- Kelly Ronald. Student Research Award. Animal Behavior Society. 2014
- Luke Tyrrell. Charolette Magnum Student Support Program, Society of Integrative and Comparative Biology. 2015
- Shannon Butler. Graduate School Summer Research Grant 2015.
- Shannon Butler. Purdue Research Foundation Research Grant 2015.
- Shannon Butler. Student Research Award. Animal Behavior Society. 2015
- Luke Tyrrell (Ph.D. student). Charolette Magnum Student Support Program, Society of Integrative and Comparative Biology, \$750. 2015
- Shannon Butler (Ph.D. student). Graduate School Summer Research Grant 2015.
- Kelly Ronald (Ph.D. student). Biology Graduate Student 3rd place poster, Purdue University
- Kelly Ronald (Ph.D. student). April 2014. Animal Behavior Society Student Research Grant. March 2014
- Shannon Butler (Ph.D. student). Purdue Research Foundation Fellowship for January-December 2016

TEACHING ACTIVITIES

TEACHING EXPERIENCE before Assistant Professor Appointment

Tertiary level:

- | | |
|------|--|
| 1995 | National University of Córdoba, Argentina (teaching assistant in Animal Behaviour) (undergraduates). |
| 1995 | National University of Córdoba, Argentina (Ecology) (undergraduates). |
| 1996 | The Open University, Argentina (Conservation Biology) (undergraduates). |
| 2001 | University of Oxford, UK (Research field techniques in animal behavior) (students of the Master of Integrative Biosciences). |

Secondary level:

1994 “Instituto San Pablo”, Córdoba, Argentina (Environmental Sciences).

Extra-curricular courses:

1998 “Instituto Piramides”, Madrid, Spain (Biometry).

1995-1996 The Open University, Córdoba, Argentina (Marine mammal conservation, Conservation biology, Marine mammals: ecology and evolution).

TEACHING ASSIGNMENTS as an Assistant Professor at California State University

Long Beach (2003-2009)

- General Ecology
- Field Methods in Ecology
- Ornithology
- Behavioral Ecology
- Research Design (core class for Biological Sciences graduate program)
- Biostatistics
- Graduate seminar on Animal Behavior and Conservation Biology
- Graduate seminar on Cognitive Ecology
- Graduate seminar on Statistics Applied to Ecology
- Graduate seminar on Visual Ecology

TEACHING ASSIGNMENTS as Associate and Full Professor at Purdue University

- Ecological Statistics
- Evolution of Behavior
- Sensory Ecology

Member of graduate thesis committees since Purdue appointment

On-campus

- Lauren Brierley (Biological Sciences - Masters student). Research Advisor: Jeff Lucas. Graduated in 2011.
- Aaron Owen (Biological Sciences - Masters student). Research Advisor: Rick Howard. Graduated in 2011.
- Megan Gall (Biological Sciences - Ph.D. student). Research Advisor: Jeff Lucas. Graduated in 2012.
- Ashley Chin-Baarstad (Biological Sciences - Ph.D. student) Research Advisor: Krista Nicholls. Graduated in 2014.
- Alex Cohen (Forestry and Natural Resources - Ph.D. student). Research Advisor: Pat Zollner. Graduated in 2014.
- Jacqueline Lynch (Biological Sciences – Masters student). Research Advisor: Jeff Lucas. Graduated in 2014.
- Ashley Kissick (Entomology – Ph.D. student). Research Advisor: Jeff Holland.
- Timothy Luttermoser (Entomology – Masters student). Research Advisor: Grzegorz

Buczowski.

- Henry Legett (Biological Sciences – Ph.D. student). Research Advisor: Ximena Bernal.

Off-campus

International:

- Sara Kross. University of Canterbury. Christchurch. New Zealand. Research Advisor: Ximena Nelson. Graduated in 2012.

National:

- Jennie Carr. Indiana State University. USA. Research Advisor: Steven Lima. Graduated in 2013.

- Zachary Aidala. Hunter College. City University of New York. USA. Research Advisor: Mark Hauber. Graduated in 2014.

Invited lectures

International

- Training Workshop for Project Leaders of the ARAUCARIA Program, Madrid, Spain, 1999.

- Management of Protected Areas Symposium, Sevilla, Spain, 2000.

- Urban Ecology Symposium, Bird Life, Buenos Aires, Argentina, 2001.

- Department Seminar, University of Buenos Aires, Argentina, 2001.

- Department Seminar, University of Montreal, Canada, 2002.

- Urban Ecology Symposium. Society for Conservation Biology Annual Meeting, New York, USA, August 2004.

- IberoAmerican Ethological Conference, Tenerife, Spain, September 2006.

- Department Seminar, National University of Cordoba, Argentina, June 2008.

- Applied Zoology Institute, Cordoba, Argentina, June 2008.

- Department Seminar, University of New Castle, United Kingdom, July 2008

- International workshop on “Social learning and information use in the wild”, organized by GRECA (Groupe de Recherche en Écologie Comportementale et Animale) at Université du Québec à Montréal (UQAM), Montreal, Canada, December 2008.

- Symposium on “Urban bird conservation: connecting the worlds of conservation, wildlife education and urban sustainability”. 25th International Congress for Conservation Biology. Auckland, New Zealand. December 2011.

- Symposium on “Integrating behavioral and conservation biology”. 25th International Congress for Conservation Biology. Auckland, New Zealand. December 2011.

- Department of Evolutionary Ecology. Museum of Natural Sciences, Madrid, Spain (Spanish Research Council). September 2012

- Department of Zoology, University of Cambridge, UK. September 2012.

- Department of Biological Sciences, University of Alberta, Canada. October 2012.

- Keynote address in COMPORTA 2013: Behavioral Biology Conference. Mar del Plata, Argentina. April 2013.

- Department of Ecology, Genetics and Evolution. University of Buenos Aires, Argentina. November 2013

- Department of Zoology, University of British Columbia, Canada. March 2014.
- Theo Murphy international scientific meeting on “When senses take flight: the evolution, development, mechanisms and function of avian senses”. Royal Society of London, London, UK. September 2014.
- Keynote Speaker at the 32nd Meeting of the Brazilian Ethological Society, Mossoro, Brazil. November 2014.
- Seminar at the Workshop “Authoring a paper in Animal Behaviour”. 32nd Meeting of the Brazilian Ethological Society, Mossoro, Brazil. November 2014.
- Talk at the Symposium The Ecology of Disturbance in a Conservation Context. British Ecological Society Annual Meeting. Edinburgh, Scotland. December 2015.
- Interdisciplinary Neuroscience Program, Western University, Canada, October 2016.

National

- Seminar, North Central Research Station, USDA Forest Service, WI, USA, 2002.
- Department Seminar, University of Minnesota, USA, 2002
- Department Seminar, California State University Long Beach, USA, 2003.
- Department Seminar, University of California Los Angeles, California, December 2004.
- Department Seminar. University of Southern California, April, 2005.
- Mountain Yellow-legged Frog Conservation Strategy Workshop. Beckman Center for Conservation Research, San Diego, California, April 2005.
- Department Seminar, School of Natural Sciences, Ohio State University, November 2005.
- Department Seminar, Department of Biological Sciences, California State University Long Beach, September 2005.
- Department Seminar, Department of Biological Sciences, San Diego State University, April 2006.
- USDA/APHIS/WS National Wildlife Research Center, Sandusky, Ohio, August 2006.
- Faculty Supper Club, California State University Long Beach, September 2006.
- Scholarly Writing Institute, Office of University Research, California State University Long Beach, June 2007.
- Bench summer seminar series, Department of Biological Sciences, California State University Long Beach, August 2007.
- Summer Institute on Teaching and Learning, Faculty Center for Professional Development, California State University Long Beach, August 2007.
- Department Seminar, Department of Biological Sciences, California State University Long Beach, October 2007.
- The Scotts Company, Marysville, Ohio, November 2007.
- The Boeing Company, Seattle, December 2007.
- DreamWorks Animation SKG, California, January 2008
- Department Seminar, Virginia Commonwealth University, January 2008
- Department Seminar, University of Nevada Reno, February 2008
- Fellows Colloquium (fundraising event), College of Natural Sciences and Mathematics, California State University Long Beach, February 2008.
- The Scotts Company, Marysville, Ohio, March 2008.
- College Seminar, Cerritos College, Long Beach, May 2008.
- Avicultural Society of America, Arcadia, California, May 2008.
- Symposium on “Decision-making during predator-prey encounters - identifying transformative

- research in antipredator behavior”, International Behavioral Ecology Congress, Cornell University, Ithaca, New York, August 2008.
- San Bernardino County Museum, California, September 2008
 - Department Seminar in the Department of Biological Sciences, California University Long Beach on September 2008.
 - Kaytee Avian Foundation, Chilton, Wisconsin, May 2009.
 - Department seminar in the Department of Biology, Indiana University, Bloomington. October 2009
 - Amos W. Butler Audubon Society, Indianapolis. November 2010.
 - American Indian Science and Engineering meeting, March 2010. Purdue University.
 - USA Biology Olympiad, June 2010. Purdue University.
 - Department Seminar. University of Kentucky, Lexington. February 2011.
 - Department Seminar. Western Kentucky University, Bowling Green. February 2011.
 - Department Seminar. Indiana State University. Terra Haute, Indiana. April 2011.
 - Symposium on Animal Cognition: perception, sensation, information, and ecology: taking the animal’s point of view. Indiana University, Bloomington. April 2011.
 - Department Seminar. Department of Psychology. Purdue University, Indiana. September 2011.
 - Department Seminar. Department of Natural Resources and Environmental Sciences, University of Illinois. October 2011.
 - Distinguished HHMI Series speaker at University of Puerto Rico Mayagüez. April 2012.
 - Department Seminar. Department of Psychology. Hunter College - City University of New York. September 2012
 - Department Seminar. Program in Organismic and Evolutionary Biology, University of Massachusetts Amherst. October 2012.
 - Seminar at Wright-Patterson US Air Force Base in Dayton, OH. February 2013.
 - Department Seminar. Department of Biological Sciences, University of Maryland at Baltimore County. April 2013.
 - Symposium on “Effects of plasticity and individual variation in sensory biology on sexual selection” for the 2013 Animal Behavior Society meeting in Boulder, Colorado. July 2013
 - Seminar. USDA Natural Resources Research Center, Fort Collins, Colorado. July 2013.
 - Symposium on “Ecology and conservation of insectivores of the tropical rainforest understory” for the 2013 American Ornithologist’s Meeting in Chicago, Illinois. August 2013.
 - Seminar, Chapter of the Wildlife Society, Butler University. November 2013
 - Seminar, North Dakota State University's Earth Day Celebration, April 2014
 - Seminar, Department of Biology, US Air Force Academy, April 2014
 - Presentation at the Winter Animal Behavior Conference, Colorado, January 2014.
 - Seminar at the Latin American Science Workshop (Animal Behavior Meeting). Princeton University, August 2014.
 - Air Force Base in Albuquerque New Mexico (virtual presentation), August 2014.
 - Seminar, Department of Ecology and Evolution, University of Chicago, February 2015
 - Seminar, Harvard Museum of Natural History, Harvard University, September 2015
 - Seminar, Department of Biology, Ball State University, November 2016

Forthcoming:

- Harvard University, Boston, September 2015.

- IUPUI, Department of Ophthalmology, Indianapolis, November 2015.
- J.B. Johnston Club for Evolutionary Neuroscience, Chicago, October 2015
- Eagle detection and deterrent technology research gaps and solutions workshop, Colorado, December 2015

Local

- Department Seminar in the Department of Biology, Indiana University-Purdue University, Fort Wayne, IN. April, 2009.
- American Indian Science and Engineering meeting, March 2010. Purdue University.
- Seminar at the Department of Biological Sciences research retreat, Purdue University, West Lafayette, April 2010.
- USA Biology Olympiad, June 2010. Purdue University.
- USA Biology Olympiad, June 2011. Purdue University.
- Department Seminar. Department of Psychology. Purdue University, Indiana. September 2011.
- Symposium on “*Solutions for 7: 7 Billion People, 7 Grand Challenges*”. Ecological Sciences & Engineering Interdisciplinary Program. Purdue University, Indiana. November 2011.
- Seminar at the Department of Biological Sciences research retreat, Purdue University, West Lafayette, November 2011.
- Seminar at meeting with BSAAC Biological Sciences
- USA Biology Olympiad, June 2012. Purdue University.
- Department of Biological Sciences, Purdue University at Calumet, August 2012.
- USA Biology Olympiad, June 2013. Purdue University.
- Department of Biological Sciences, Purdue University, October 2013
- Seminar Purdue’s All-You-Can-Learn Buffet. Purdue Extension. June 2014.
- Talk at Kiwanis International, West Lafayette, Indiana. March 2015.
- Guest lecture in the course Wildlife in America, Purdue University, October 2016.

Invited international and national working groups/courses

International:

- International working group: “Emerging questions in the evolution of visual systems in vertebrates.” This working group met several times during 2.5 years (2009-2011) at the National Evolutionary Synthesis Center (funded by NSF). Duke University, Durham, NC.
- International working group “Conservation Behavior”. San Diego Zoo's Institute for Conservation Research, San Diego, California. March 2016.
- Course: “Fundamentals of hypothesis testing and experimental design in Ecology”. National University of Cordoba. This was an intensive course (20 hours) for graduate students in Ecology and Evolutionary Biology. June 1-3, 2015. Cordoba, Argentina.

National:

- Workshop: “Future of Animal Behavior Research”. This working group met to establish the future research priorities on animal behavior research nationwide. The workshop was funded by NSF. April 2012, VA.
- Workshop on “Sensory feedbacks and distributed communications in natural and artificial systems” University of Santa Barbara, California. April 2016.

Activities related to outreach and diversity

(I) Bird Vision explained (<http://estebanfj.bio.purdue.edu/birdvision/>). Website to introduce the general public to concepts of bird vision. The site is structured in modules and activities that can be easily downloaded by teachers to incorporate in their classes. There are 19 web pages with specially designed graphs and pictures produced to facilitate the understanding of visual fields, visual coverage, binocular and lateral vision, etc.

(II) Bird's Eye View. Outreach program for K-12 schools. This program includes seminars on how birds perceive visually their environment and the societal applications of avian vision research (e.g., reducing bird strikes, collisions with windows, etc.). The talks are highly interactive and include hands-on activities for students to experience avian vision.

(III) In collaboration with a local artist (Gabriela Sincich) and the Purdue Science K-12 Outreach Program, we developed a teaching module for grades 3-6 entitled "How do we see and use colors? What makes birds different from us?" The first goal is to teach children the fundamentals on how human color vision works (i.e., three visual pigments) and how we can mix colors to get other colors. The second goal is to explain the wider avian color space (i.e., four visual pigments) and to encourage students to imagine the subtle variation in colors birds might perceive. The activity ends with an art project that consists of painting a landscape from human and bird perspectives. This teaching module fulfills Indiana Science Standards 1, 2, 3, 4, 5.

(IV) We developed and opened a booth at the annual Spring Fest at Purdue University (<https://ag.purdue.edu/springfest/Pages/default.aspx>) devoted to bird vision in 2014 and 2015. The goal is to explain to the general public how birds see their world. We developed a poster to illustrate key concepts on why birds see things differently from humans (position of the eyes in the skull, centers of acute vision). We also created several sets of hand-held goggles that project our binocular vision laterally to mimic the way birds with laterally placed eyes see. People visiting the booth get an introduction on avian vision, and then use the goggles to search for objects, such as dried noodles or candy, on a tray. We have video playing of a bird looking for food showing how they use the sides of their heads to search visually before pecking. This allows people to make the connection between what they experience with the goggles and avian foraging behavior. Finally, we have coloring activities for younger children visually explaining some of these ideas. Additionally, many K-12 teachers have approached us to get the goggle design so they can use them in their classes.

(V) SROP Program (Purdue University). Research Mentoring of minority students during the 2012 summer.

(VI) Purdue's SACNAS Chapter Faculty advisors (2009-2010).

(VII) Skype seminar with undergraduate students from the University of Puerto Rico at the Malaguez Campus to answer questions about graduate school at Purdue.

(VIII) Seminar about graduate school opportunities in the US in a scientific meeting in Mar del

Plata, Argentina (2013).

PROFESSIONAL SERVICE

Editorial Boards

2007-present - Associate Editor: **Journal of Applied Ecology** (on-leave). British Ecological Society.

2010-present. Associate Editor: **Behavioral Ecology and Sociobiology**. Springer.

2012-present. Editor: **Animal Behaviour**. Elsevier.

Grant Review Panels

- Animal Behavior Panel, National Science Foundation. October 2006.
- Animal Behavior Panel, National Science Foundation. April 2007.
- Animal Behavior Panel, National Science Foundation. April 2009.
- Animal Behavior Panel, National Science Foundation. April 2010.
- Animal Behavior Panel, National Science Foundation. October 2013.
- Animal Behavior Panel, National Science Foundation. April 2014.

Forthcoming: Animal Behavior Panel, National Science Foundation. October 2015.

Ad-hoc Reviewer

Conferences

- Society for Conservation Biology Annual Meeting, Duluth – MN –USA, 2003.
- XII National and IX Latin American Ethological Conference. Valencia, Spain. 2008.
- XIV National and XI Latin American Ethological Conference. Sevilla, Spain. 2012.

Journals

AMBIO, American Naturalist, Animal Behaviour, Animal Biodiversity and Conservation, Animal Cognition, Animal Conservation, Applied Animal Behaviour Science, Aquatic Mammals, Ardeola, Auk, Biology Letters, Biological Reviews, Behavioral Ecology, Behavioral Ecology and Sociobiology, Behavioural Processes, Behavior, Biodiversity and Conservation, Biological Conservation, Brain, Behavior and Evolution, Canadian Journal of Zoology, Condor, Conservation Biology, Conservation Letters, Ecography, Ecology, Ecology Letters, Ecological Applications, El Hornero, Environmental Conservation, Ethology, Functional Ecology, Human Wildlife Conflicts, Ibis, Invertebrate Biology, International Journal of Comparative Psychology, Journal of Animal Ecology, Journal of Avian Biology, Journal of Comparative Psychology, Journal of Ornithology, Journal of the Royal Society Interface, Journal of Zoology, Journal of Wildlife Management, Landscape and Urban Planning, Landscape Ecology, Marine Mammal Science, Naturwissenschaften, Oecologia, Oikos, Ornis Fennica, PLoS ONE, PeerJ, Proceedings of the Royal Society of London B, PNAS, Polar Biology, Science, Urban Habitats, Wilson Bulletin, Wildlife Biology.

Funding Agencies

- National Science Foundation (USA)
- The Royal Society of London (UK)
- BBSRC (Biotechnology and Biological Sciences Research Council) (UK)
- NERC (Natural Environment Research Council) (UK)
- NSERC (Natural Sciences and Engineering Research Council) (Canada)
- Georgian-U.S. Bilateral Grants Program. U.S. Civilian Research & Development Foundation (USA)
- Fundacion BBVA (Spain)
- Agencia Nacional de Promoción Científica y Tecnológica (Argentina)
- National Geographic Society (USA)
- Netherlands Organization for Scientific Research (The Netherlands)
- Earthwatch (USA)

Books

Sinauer Publisher
Benjamin Cummings
John Wiley & Sons

Chair of symposia in professional society meetings

- Organizer: International Conference on Conservation Biology in Latin America (March 1999, Madrid, Spain).
- Chair: Conservation Behavior Symposium. Animal Behavior Society Meeting 2007. Vermont, USA.
- Co-Chair: Symposium on “Trends in Conservation Behavior” for the 2013 Animal Behavior Society meeting in Boulder, Colorado (in collaboration with Bruce Schulte from University of Western Kentucky).
- Co-Chair: Symposium on “Effects of plasticity and individual variation in sensory biology on sexual selection” for the 2013 Animal Behavior Society meeting in Boulder, Colorado (in collaboration with Jeff Lucas from Purdue University)

Advisory committees

- Advisory Committees for the Green Visions Plan (University of Southern California), 2005
- Palos Verdes Peninsula Land Conservancy Science Advisory Panel, 2007-2008
- Science Advisory Committee for the Spanish Ethological Meeting 2008 in Valencia, Spain.
- Science Advisory Committee for the Spanish Ethological Meeting 2011 in Madrid, Spain
- Steering Committee, Bald and Golden Eagle Detection and Deterrent Technologies Research Gaps and Solutions Workshop, December 2015, Denver, Colorado.

Miscellaneous

- Co-organizer: International Course on the Management of Protected Areas (February 2000, Sevilla, Spain).
- Co-organizer: International Course on the Management of Threatened Populations (November 1999, Honduras).

- Science Fair Reviewer – Long Beach Unified School District, 2007.

University Service at California State University Long Beach

- 2005: Ad-hoc committee to evaluate graduate program for the Department of Biological Sciences Self-Study.
- 2005: Search committee for a Neurobiologist at the Department of Biological Sciences.
- 2005: Ad-hoc committee for the elaboration of the Policies and Regulations of the Vertebrate Museum.
- 2005: Ad-hoc committee to assess changes in the Curriculum of the Environmental Science and Policy program.
- 2006-2008: Graduate Studies Committee.
- 2006-2007: Senator representing the Department of Biological Sciences at the Academic Senate.
- 2007-2008: College Council Committee.
- 2007-2008: International Education Committee.

University Service at Purdue University

- 2009: Review of applications for the Yeunkyung Woo grad travel awards
- 2010-2011, and 2011-2012: Convener of the Qualifier Committee for the Ecology & Evolutionary Biology Cluster
- 2009-2010: Member of the Graduate Admissions Committee
- 2009-present: Ross Reserve committee
- 2012: Department External Review Committee (EEB Cluster representative)
- 2012: Leading Hire Committee (EEB Cluster representative)
- 2013: Evolutionary Ecology Faculty Search Committee
- 2013: Faculty retreat committee (May 2013)
- 2013-present: Laboratory Animal Facility Advisory Committee
- 2010-2014: Convener of the Graduate Admissions Committee
- 2013-2014: Sensory Biology Faculty Search Committee
- 2014-2015: Future of the Department ad-hoc committee
- 2014 to present: Convener of the Ecology and Evolutionary Biology Cluster

OTHER WORK EXPERIENCE

Research Assistant

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|-----------|--|
| 1999 | Winter survey of urban birds in the city of Madrid. Ornithological Spanish Society (SEO), Spain. |
| 1994-1996 | Diving and foraging behavior of the South American sea lion (<i>Otaria flavescens</i>). University of Guelph, Canada, and Centro Nacional Patagonico, Argentina. |
| 1995 | Comparative study of the vocal behavior of sea lions. University of California at Santa Cruz, USA. |
| 1995 | Captive breeding program for two parrot species, <i>Amazona aestiva</i> and |

Amazona brasiliensis. Zoological Park of Córdoba. Córdoba, Argentina.

1994 Reproductive behavior of the Southern sea lion (*Otaria flavescens*) in Peninsula Valdes, Argentina. Museo Argentino de Ciencias Naturales Bernardino Rivadavia, Buenos Aires, Argentina.

1994 Health status of Magellanic Penguin populations. Patagonia, Argentina. Wildlife Conservation Society.

Consultant

1998 Translation (Spanish-English) of a report about the current status of tuna and swordfish fisheries in Spain. WWF Endangered Seas Campaign (UK) and TRAFFIC Europe.

PROFESSIONAL MEMBERSHIPS

(1) Animal Behavior Society, (2) International Society for Behavioral Ecology, (3) Cooper Ornithological Society, (4) American Ornithologists' Union