

CURRICULUM VITAE

ESTEBAN FERNÁNDEZ-JURICIC

Professor of Biological Sciences Purdue University

Citizenship Born in Argentina (1971); Naturalized US Citizen

Ethnicity: Latino/Hispanic

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ACADEMIC PREPARATION AND HONORS

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

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

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

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

Research: sensory ecology, animal behavior, conservation biology, evolutionary ecology

Methodological approaches: semi-natural experiments, robotic animals, field work, museum specimens, comparative methods, 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 and HONORS

- 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*.
- 2018 Voted President-Elect of the Animal Behavior Society.
- 2018 Elected Fellow of the Animal Behavior Society.
- 2019 2018-2019 Engagement Award – Department of Biological Sciences, College of Science, Purdue University.
- 2019 2019 Professional Achievement Award for development of a new undergrad course on Experimental Design and Quantitative Analysis in the Life Sciences with an emphasis on reproducibility – Department of Biological Sciences, College of Science, Purdue University.

LEADERSHIP EXPERIENCE

Organizer of events at scientific 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.
- Organizer and Co-Chair: Symposium on “Trends in Conservation Behavior” for the 2013 Animal Behavior Society meeting in Boulder, Colorado.
- Organizer and 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.
- Organizer: Sensorium 2018 (sensory biology conference) at Purdue University (<http://sensoriumconference.org/>).

Leading committees, units, and initiatives

- 2003-2008: Curator of the Ornithological Collection at the Vertebrate Museum in the Department of Biological Sciences, California State University Long Beach.
- 2010-2014: Convener of the Graduate Admissions Committee, Department of Biological Sciences, Purdue University.
- 2014 to 2018: Convener of the Ecology and Evolutionary Biology Cluster, Department of Biological Sciences, Purdue University.
- 2017: led initiative to review different research performance metrics in academia for development of guidelines for tenure and promotion in the Department of Biological Sciences, Purdue University.
- 2018: design and implementation of the Department of Biological Sciences social media strategy (including live-streaming of seminars and conferences), Purdue University.
- 2018-2019: design and implementation of the social media strategy (focused on Twitter) for the Animal Behavior Society.
- 2019-2020: eLife Ambassador for Open Science (planning and implementation of activities on- and off-campus to promote computational/statistical reproducibility, changes in research assessment, etc.).

Training for leadership positions

- 2016: Leadership training with Adedayo Adeniyi (Director of Leadership & Organizational Development, Purdue University).
- August 2018 – present: currently in training to step into the Presidency of the Animal Behavior Society in half a year. The Animal Behavior Society is the largest professional society focused on the biology of behavior in the Americas, with headquarters in Chicago, USA.

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: National Science Foundation. Period: 2009-2011. Total award: \$142,070
- Role: PI. Visual properties of the Canada goose: Implications for bird-aircraft collision. Funding: 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: Bird Raptor International. Period: 2009-2011. Total award: \$102,252.
- Role: PI. Different in seed consumption in bird feeders under different ecological conditions. Funding: 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: Indiana Department of Natural Resources. Period: 2010. Total award: \$12,800.

- Role: PI. An experimental test of bird-feeder color preferences in finches. Funding: Kaytee Avian Foundation. Period: 2010-2011. Total award: \$12,860.
- Role: PI. Developing an onboard alert system to minimize bird collisions with aircraft. Funding: 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: 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: US Army Corps of Engineers. Period: 2012-2016. Total award: \$148,687.
- Role: PI. Effect of radar on bird behavior. Funding: US Department of Agriculture. Period: 2010-2015. Total award: \$179,615.
- Role: PI. Understanding behavioral predator-prey interactions from a visual sensory perspective. Funding: National Science Foundation. Period: 2012-2018. 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: 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: 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: US Department of Agriculture. Period: 2014-2016. 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: Australian Research Council. Period: 2015-2018. Total award: \$336,605.
- Role: PI. Effects of lasers for seabird bycatch prevention on avian retinal health. Funding: 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: Lynntech Inc. Period 2016-2017. Total award: \$44,000.

- Role: PI. A novel method to minimize bird strikes through onboard lighting systems (PHASE 2). Funding: US Department of Agriculture. Period: 2016-2019. Total award: \$230,667
- Role: PI. Understanding the Eagle Sensory World to Enhance Detection and Response to Wind Turbines. Funding: 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: Avangrid Renewables. Period 2017-2019. Total award: \$226,000.
- Role: PI. Vision in red-winged blackbirds: visual physiology and perceptual modeling. Funding: Arkion Life Sciences. Period: 2018-2019. Total award: \$31,124.
- Role: PI. Avian Vision Integrated Deterrent (AVID – Phase II). Funding: US Air Force and Lynntech, Inc. Period: 2019-2021. Total award: \$350,000.
- Role: PI. A novel method to minimize bird strikes through onboard lighting systems (PHASE 3). Funding: US Department of Agriculture. Period: 2020-2021. Total award: \$123,000. Award currently being set up.

Internal funding awarded

- 2010 International Travel Grant. Role: PI. Purdue Research Foundation. Period: 2010. Total award: \$1,000.
- 2018 College of Science Instructional Equipment Grant. Role: PI. Enhancing the capacity to train students in Ecology and Evolutionary Biology. Period: 2019. Total award: \$21,266.

AWARDED RESEARCH GRANTS AS RESEARCH ASSOCIATE

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| 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 (175):

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. Rodríguez-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.

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 - DeVault, T.L., B. Blackwell, T. Seamans, S.L. Lima, E. **Fernández-Juricic**. 2017. Commercial Aviation Safety Team (CAST) Meeting. Washington, DC, 2017. [Talk].
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 - **Fernández-Juricic**, E. Avian vision: integrating physiology and behavior. 2017 Sensorium Conference. Cincinnati, OH. September 2017. [Talk].
 - **Fernández-Juricic**, E., P. Baumhardt & L. Kelly. How do different bird species visually perceive solar panels? Implications for reducing avian mortality in solar facilities. 2018. American Ornithological Society Annual Meeting. Tucson, Arizona. April 2018. [Invited Talk].
 - Lucas, J., B. Goller, P. Baumhardt, T. Katzner, E. Dominguez, P. VanWick & E. **Fernández-Juricic**. Using sensory information to keep eagles out of wind turbines: (1) the auditory system. Animal Behavior Society Annual Meeting. Madison, Wisconsin. August 2018. [Talk].
 - **Fernández-Juricic**, E., B. Goller, B. Blackwell., T. DeVault, P. Baumhardt. A novel approach to assessing bird avoidance of lights: implications for human-induced avian mortality. Animal Behavior Society Annual Meeting. Madison, Wisconsin. August 2018. [Talk].
 - **Fernández-Juricic**, E. & B. Blackwell. Developing lights to prevent collisions with birds: lessons from a songbird. International Society for Behavioral Ecology. Minneapolis, MN. August 2018. [Talk]
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- **Fernández-Juricic**, E., A. Blumenthal, D. Harris, E. Melvin. Are avian laser-deterrents safe? A study on how visual foraging is affected by laser exposure. Animal Behavior Society Annual Meeting. University of Illinois, Chicago. August 2019. [Talk].
- Goller, B., P. Baumhardt, N. Lovko, E. **Fernández-Juricic** & J. Lucas. Measuring Golden and Bald Eagle Hearing for Development of Eagle Deterrent Technology. Animal Behavior Society Annual Meeting. University of Illinois, Chicago. August 2019. [Talk].
- Lunn, R., E. **Fernández-Juricic**. Can escape behavior models make predictions on responses to high-speed vehicles? Animal Behavior Society Annual Meeting. University of Illinois, Chicago. August 2019. [Poster].
- Trapp, R., E. **Fernández-Juricic**. Can visual system configuration play a role in individual recognition? Implications for group spacing. Animal Behavior Society Annual Meeting. University of Illinois, Chicago. August 2019. [Poster].
- Chaney M., Baumhardt P., Goller B., Harris D., LaTour C., Lunn R., Trapp R., **Fernández-Juricic** E. Are birds visually constrained to see buildings in front of them? Implications for bird-window collisions. Sensorium Conference, Champaign, IL. October 2019. [Poster].
- LaTour, C., A. Chubykin, E. **Fernández-Juricic**. A Technique to Record Avian Retinal Ganglion Cell Properties. Sensorium Conference, Champaign, IL. October 2019. [Poster].
- Trapp, R. & **Fernández-Juricic**, E. What social cues do animals pay attention to? An eye-tracking approach. Sensorium Conference, Champaign, IL. October 2019. [Poster].
- Goller B and E **Fernández-Juricic**. Visual system properties of Anna's hummingbirds (*Calypte anna*). Sensorium Conference, Champaign, IL. October 2019. [Talk].
- LaTour, C., A. Chubykin, E. **Fernández-Juricic**. Exploring Cellular Mechanisms of Avian Color Vision, JB Johnston Club, Chicago IL, 2019. [Talk].
- Harris, D., A. Blumenthal, E. **Fernández-Juricic**. Can lasers injure the avian eye when used as bird-deterrents? Sensorium Conference, Champaign, IL. October 2019. [Poster].
- Lunn, R. & E. **Fernández-Juricic**. Can Models of Escape Behavior be Used to Study Interactions Between Vehicles and Animals? Eco-Lunch Seminar Series, Purdue University, May 2019. [Talk]
- **Fernández-Juricic**, E., A. Blumenthal, D. Harris & E. Melvin. Are avian laser-deterrents safe? A study on how visual foraging is affected by laser exposure. Bird Damage Management Conference, Salt Lake City, UT. February 2020. [Talk].
- **Fernández-Juricic**, E., A. Blumenthal, D. Harris & E. Melvin. Are avian laser-deterrents safe? A study on how eyes and visual foraging is affected by laser exposure. 2020 Pacific Sea Bird Group meeting, Portland, OR. February 2020. [Talk].

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 Rodriguez-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: ~ 220

Former graduate students: 22 (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
- Amanda Elmore. Graduated in 2013
- Diana Pita. Graduated in 2013
- Claire Hosinski. Graduate in 2015

Former Post-docs (2):

- Dr. Amanda Ensminger (*National Science Foundation post-doctoral fellow*) (2011-2014)
- Dr. Jessica Yorzinski (2013-2015)

Current Ph.D. students (5):

- Diana Pita
- Rebecca Trapp
- Ryan Lunn
- Carlay LaTour (co-advisor: Dr. Alex Chubykin – Purdue University)
- Morgan Chaney (co-advisor: Prof. Jeff Lucas – Purdue University)

Current Masters students (2):

- Arden Blumenthal
- Deona Harris

Current Post-doc (1):

- Dr. Benny Goller (2016- present)

Lab research technicians since Purdue appointment (4)

- Megan Doppler (2013-2014)
- Nathan Ikerd (2014-2017)
- Deona Harris (2017 – 2018)
- Patrice Baumhardt (2012 – present)

Visiting scientists since Purdue appointment (3)

- Guillaume Rieucan (2012). This French post-doc got a fellowship from the European Union to study in my lab the role of the visual system in the transmission of social information.
- Yuanxing Ye (2014-2016). This Ph.D. student from Beijing Forestry University got a fellowship from the Chinese government to spend two years in my lab. We trained him on multiple visual ecology and behavioral ecology techniques and he conducted some projects here as part of his Ph.D. thesis.
- Pedro de Moraes (2017). This Ph.D. student from the University of Brasilia (Brazil) spent 6 months in my lab with a fellowship from the Brazilian government. We trained him on multiple visual ecology and perceptual modeling techniques. His visit was also part of an international collaboration with Prof. Regina Macedo to study the visual system of the blue-black grassquit, a small songbird that lives in semi-open areas. This is one of first South American bird species that will have its visual system characterized.

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). Charlotte Magnum Student Support Program, Society of Integrative and Comparative Biology, \$750. 2015
- Shannon Butler (Ph.D. student). Graduate School Summer Research Grant 2015.
- Shannon Butler (Ph.D. student). Purdue Research Foundation Fellowship for January-December 2016
- 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 (\$1,300). March 2014
- Shannon Butler (Ph.D. student). Animal Behavior Society student research grant (\$1,000). April 2015
- Shannon Butler (Ph.D. student). Cooper Ornithological Society Travel Grant (\$175). July 2015
- Shannon Butler (Ph.D. student). Animal Behavior Society Travel Grant (\$500). 2016.
- Luke Tyrrell (Ph.D. student). Yeunkyung Woo Achieve Excellence Travel Award, Purdue University (\$500). 2016.
- Luke Tyrrell (Ph.D. student). Alton A. Lindsey Graduate Fellowship in Ecology, Purdue University (\$1,000). 2016.
- Kelly Ronald (Ph.D. student). Purdue's Bisland Dissertation Fellowship. 2016.
- Kelly Ronald (Ph.D. student). Animal Behavior Society Conference Childcare Grant (\$500). 2016.
- Kelly Ronald (Ph.D. student). Animal Behavior Society Travel Grant (\$500). 2017
- Kelly Ronald (Ph.D. student). Animal Behavior Society Early Career Award for best student paper Walter Clyde Allee Award (\$1,500). 2017. *This is the most prestigious (and most competitive) award for early career scientists in the Animal Behavior Society.*
- Ryan Lund (Ph.D. student). Ross Fellowship 2018-2019 (\$24,000). Department of Biological Sciences, Purdue University.
- Rebecca Trapp (Ph.D. student). Ross Fellowship 2018 (\$24,000). Department of Biological Sciences, Purdue University.
- Rebecca Trapp (Ph.D. student). Andrew-John Scott A. & the Ella A. Award (\$3,000). Purdue University.
- Rebecca Trapp (Ph.D. student). Dr. P.T. Gilham Graduate Award (\$3,000). Purdue University.
- Rebecca Trapp (Ph.D. student). A.A. Lindsey Fellowship (\$2,000). Department of Biological Sciences, Purdue University.

Member of graduate thesis committees since Purdue appointment

On-campus

- 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.
- 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.

- Alex Cohen (Forestry and Natural Resources - Ph.D. student). Research Advisor: Pat Zollner. Graduated in 2014.

- Edward Collier (Department of Computer Graphics Technology – Masters student). Research Advisor: Bedrich Benes. Graduated in 2016.

- Timothy Luttermoser (Department of Entomology – Masters student). Research Advisor: Grzegorz Buczkowski. Graduated in 2016.

- Ashley Kissick (Department of Entomology – Ph.D. student). Research Advisor: Jeff Holland. Graduated in 2017.

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

- Anupriya Karippadath (Department of Biological Sciences – Ph.D. student). Research Advisor: Jeff Lucas.

- Cheyenne Gerdes (Department of Forestry and Natural Resources – Ph.D. student). Research Advisor: Pat Zollner.

- Ruth Eunice Centeno Martinez (Department of Animal Sciences – Ph.D. student). Research Advisor: Timothy Johnson.

Off-campus

International:

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

- Constanza Pasian. National University of Cordoba, Argentina. Research Advisor: Mario Santiago Di Bitetti.

- Antony Seward. Department of Biological Sciences Macquarie University Sydney, Australia. Research Advisor: Nathan Hart. Graduated in 2018.

- Brendon Samuels. University of Western Ontario, Canada. Advisor: Scott McDougall-Shackleton.

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 2015.

- Alec Luro. University of Illinois at Urbana-Champaign, USA. Research Advisor: Mark Hauber.

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 (2009-present)

- Ecological Statistics
- Evolution of Behavior
- Experimental Design and Quantitative Analysis in the Life Sciences (online course)
- Sensory Ecology (team-taught)
- Writing in Ecology and Evolutionary Biology (team-taught)
- Advanced Ecology and Evolutionary Biology Discussion (team-taught)

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.
- Talk at the Bird Sense 2017 Symposium, Zoological Society of London, September 2017.
- Seminar, Department of Biological Sciences. Universidad de los Andes, Bogota, Colombia. April 2017.
- Seminar, School of Biological Sciences. University of Cordoba Argentina, April 2017.
- Seminar, Department of Biology, Lund Vision Group, Lund University, Sweden. March 2018.
- Seminar, Department of Ecology, Universidad Complutense de Madrid, Spain. May 2019.

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
 - Seminar, Department of Biological Sciences. University of Washington, Seattle, March 2017.
 - Seminar, Department of Ecology, Evolution & Behavior, University of Minnesota. October 2017.
 - Seminar, USDA APHIS, Sandusky, Ohio. December 2017.
 - Invited presentation at the Symposium "Understanding avian-solar interactions", which was part of the American Ornithology 2018 meeting organized by the American Ornithological Society in Tucson, Arizona. April 2018.
 - Seminar, Department of Biology, University of Wyoming, October 2018.
 - Seminar, Edwards Air Force Base, California. December 2018.
 - Seminar, Illinois Natural History Survey, University of Illinois at Urbana-Champaign, March 2019.
 - Informative talk on open science in the behavioral sciences as part of the Animal Behavior Society meeting at the University of Illinois, Chicago, August 2019.
 - Seminar, School of Veterinary Medicine, University of California at Davis, April 2019.
 - Seminar, Division of Biological Sciences, University of Missouri, September 2019.

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 Biological Sciences Advisory Advancement Committee.
- USA Biology Olympiad, June 2012. Purdue University.
- Department of Biological Sciences, Purdue University at Calumet, August 2012.
- USA Biology Olympiad, June 2013. Purdue University.
- Seminar at the 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.
- Talk at the NeuroNetworking Summer Seminar Series (Purdue Institute for Neuroscience), July 2017
- Guest lecture in the course Wildlife in America, Purdue University, October 2017.
- Talk at Kiwanis International, West Lafayette, IN. December 2017.
- Seminar at the Department of Biological Sciences, Purdue, April 2018
- Seminar at the Department of Biological Sciences, Purdue University, April 2019.

Invited international and national working groups

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.
- International working group “developing a behavioral evidence platform for conservation and management”, Ben-Gurion University's Jacob Blaustein Institutes for Desert Research, Israel, October 2017.
- International working group on “developing change models for enhanced uptake of conservation behavior science”. San Diego Zoo's Institute for Conservation Research, San Diego, California. October 2019.

National:

- Workshop on the “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 “Eagle detection and deterrent technology research gaps and solutions”. The

- National Renewable Energy Laboratory (Department of Energy), Colorado. December 2015.
- Workshop on “Sensory feedbacks and distributed communications in natural and artificial systems” University of Santa Barbara, California. April 2016.
 - Working Group: Wildlife Sensitivities to Light and Sound. Colorado State University at Fort Collins, September 2017. Funded by NASA.
 - Workshop: Wind-wildlife technology development & innovation. National Wind Technology Center, Boulder, Colorado. June 2018. Funded by Department of Energy.
 - Workshop: Assessment of Benefits and Risks from Use of Robotic Laser Scarecrows for Bird Damage Prevention in Specialty Crops. University of Rhode Island, November 2019.

Courses taught abroad

- Course: “Fundamentals of hypothesis testing and experimental design in Ecology” at the National University of Cordoba, as part of National Science Foundation award. This was an intensive course (20 hours) for graduate students in Ecology and Evolutionary Biology. June 1-3, 2015. Cordoba, Argentina.
- How to enhance publication success in international scientific journals. Grad level workshop taught at the University of Cordoba, Argentina as part of National Science Foundation award. April 2017.
- Animal coloration data analysis with perceptual models. This was an intensive course (2 hours of lecture, 2 hours of computer lab) for grad students, postdocs and Faculty. April 20, 2018. Cordoba, Argentina.

PROFESSIONAL SERVICE

Editorial Boards

- 2010-present. Associate Editor: **Behavioral Ecology and Sociobiology**. Springer.
- 2012-2017. Editor: **Animal Behaviour**. Elsevier.
- 2007-2016 - Associate Editor: **Journal of Applied Ecology**. British Ecological Society.

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.
- Animal Behavior Panel, National Science Foundation. October 2015.
- Animal Behavior Panel, National Science Foundation. October 2016.
- Animal Behavior Panel, National Science Foundation. April 2017.

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

Acta Zoologica, AMBIO, American Naturalist, Animal Behaviour, Animal Biodiversity and Conservation, Animal Cognition, Animal Conservation, Applied Animal Behaviour Science, Aquatic Mammals, Ardeola, Auk, Biology Letters, Biology Open, 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, Evolution, Frontiers in Ecology and Evolution, Frontiers in Neuroscience, 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 Disease, 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, Scientific Reports, Trends in Ecology and Evolution, Urban Habitats, Vision Research, 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)
- USDA -NIFA

Books

Sinauer Publisher
Benjamin Cummings
John Wiley & Sons

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.

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 2018: Convener of the Ecology and Evolutionary Biology Cluster
- 2012 to present: Member of the Ross Reserve Committee
- 2014 to present: active member of the following tenure and promotion committees: Mark Christie, Ximena Bernal, Catherine Searle, and Alex Chubykin
- 2015 to present: Research mentor of Dr. Mark Christie (Assistant Professor)
- 2015 to present: Member of the Graduate Advanced Studies Committee.
- 2015 to present: Member of the Faculty and Alumni Recognition Committee.
- 2015 to present: Member of the Space & Facilities Operations Committee.
- 2018 to present: Chair of Dr. Giovanna Carpi's Promotion Committee (Assistant Professor).
- 2018 to present: Convener of the Full Professor Review Committee.

Examples of engagement with external stakeholders

- 2008: Collaboration with DreamWorks Animation (California) to advise on technical aspects of bird flight for the development of the film “How to Train Your Dragon”.
- 2010: Visit to the House of Representatives and the Senate (Washington DC) with the Purdue Federal Team to enhance the understanding about new technologies to minimize collisions between aircraft and wildlife.
- 2018: Review of research initiatives on flight safety for Chief of Safety, U.S. Air Force Headquarters, Pentagon, Washington, D.C.
- 2018-2019: Development of a bird strike mitigation strategy for Uber Elevate (air transportation system within and between cities - <https://www.uber.com/us/en/elevate/>).
- 2019: Participation in the Smithsonian Channel documentary “Bird vs. Plane: Miracle on the Hudson” that featured the research approach used in my lab to develop lights tuned to the avian eye to minimize bird strikes.

Activities related to outreach and diversity

- 2007: Science Fair Reviewer – Long Beach Unified School District, 2007.
- 2007-2010: Bird Vision explained (<http://estebanfj.bio.purdue.edu/birdvision/>). Website to introduce the general public to how birds see their world. 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.
- 2009-2010: Purdue's SACNAS Chapter Faculty advisor.
- 2011: *Skype* seminar and Q&A with undergraduate students from the University of Puerto Rico at the Malaguez Campus to answer questions about graduate school at Purdue.
- 2012: Research Mentoring of minority students as part of the SROP Program (Purdue University).
- 2013: Seminar about graduate school opportunities in the US in a scientific meeting in Mar del Plata, Argentina.
- 2009-2014: Bird’s Eye View. Outreach program for K-12 schools. This program includes talks on how birds perceive visually their environment and the societal applications of avian vision research (e.g., reducing collisions between birds and aircraft, buildings, etc.). The talks are highly interactive and include hands-on activities for students to experience how birds with laterally placed eyes spatially see their world.
- 2014: Seminar about enhancing opportunities for Latin American researchers to publish in the scientific journal *Animal Behaviour*. Brazilian Ethological Society, Mossoro, Brazil.
- 2014-2016: Booth about how birds see their world at the annual Spring Fest at Purdue University (<https://ag.purdue.edu/springfest/Pages/default.aspx>). We had different stages. Visitors were first shown a large illustration explaining visually how birds see things differently from humans (position of the eyes in the skull, centers of acute vision). We created several sets of hand-held goggles that projected our binocular vision laterally to mimic the way birds with laterally placed eyes see. People visiting the booth got to use the goggles to search for objects, such as dried noodles or candy, on a tray. Finally, we showed a video with a bird looking for food showing how they use the sides of their heads to search visually before pecking. The whole process allowed visitors to make the connection between what they had experienced with the goggles and the way birds engage in food searching behavior. We also had some coloring activities for younger children visually explaining some of these ideas. Many K-12 teachers who visited the booth approached us to get the goggle design so they could use them in their classes.

- 2017: Seminar about graduate school opportunities in the US at Universidad de los Andes, Bogota, Colombia.
- 2016-present: 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.

OTHER WORK EXPERIENCE

Research Assistant

- 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 (*Otaria flavescens*). 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, *Amazona aestiva* 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) American Ornithological Society, (4) American Association for the Advancement of Science, (5) Center for Animal Welfare Science @ Purdue University