

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

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 Human Resources).

- August 2018 – present: currently in training to step into the Presidency of the Animal Behavior Society in 1.5 years. The Animal Behavior Society is the largest professional society focused on the biology of behavior in the Americas, with headquarters in Chicago.

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.

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

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 (168):

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. Szyren & 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.

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.

Rodríguez-Prieto, I., E. **Fernandez-Juricic**, J. Martin & Y. Regis. 2009. Anti-predator behavior in blackbirds: habituation complements risk allocation. *BEHAVIORAL ECOLOGY* 20: 371-377.

Valcarcel, A. & **Fernández-Juricic**. 2009. Anti-predator strategies of house finches: are urban habitats safe spots from predators even when humans are around? *BEHAVIORAL ECOLOGY AND SOCIOBIOLOGY* 63: 673-685.

Fernández-Juricic, E., J.A. Delgado Sáez, C. Remacha, M.D. Jiménez, V. Garcia* & K. Hori*. 2009. Can a solitary avian species use collective detection? An assay in semi-natural conditions. *BEHAVIOURAL PROCESSES* 82: 67-74.

Fernández-Juricic, E., E. Zahn, T. Parker & T. Stankowich. 2009. California endangered Belding's savannah sparrow (*Passerculus sandwichensis beldingi*): tolerance of pedestrian disturbance. *AVIAN CONSERVATION AND ECOLOGY* 4(2): 1. URL: <http://www.ace-eco.org/vol4/iss2/art1/>

Tisdale, V. & E. **Fernández-Juricic**. 2009. Vigilance and predator detection vary between avian species with different visual acuity and coverage. *BEHAVIORAL ECOLOGY* 20: 936-945.

Blackwell, B.F., T. L. DeVault, E. **Fernández-Juricic** & R. A. Dolbeer. 2009. Wildlife collisions with aircraft: a missing component of land-use planning for airports. *LANDSCAPE AND URBAN PLANNING* 93: 1-9.

Fernández-Juricic, E. 2010. Visual signals. In *Encyclopedia of Animal Behavior*. In Breed M.D. and Moore J. (eds) *Encyclopedia of Animal Behavior*, pp. 544-550. Academic Press, Oxford.

Fernández-Juricic, E. & I. Rodríguez-Prieto. 2010. Risk allocation in anti-predator behavior. In *Encyclopedia of Animal Behavior*. In Breed M.D. and Moore J. (eds) *Encyclopedia of Animal Behavior*, pp. 75-78. Academic Press, Oxford.

Gall, M.D. & E. **Fernández-Juricic**. 2010. Visual fields, eye movements, and scanning behavior of a sit-and-wait predator, the Black Phoebe (*Sayornis nigricans*). *JOURNAL OF COMPARATIVE PHYSIOLOGY A* 196: 15-22.

Fernández-Juricic, E. 2010. Urban Wildlife. In: *The Encyclopedia of Applied Animal Behaviour & Welfare*, pp. 623-624. CAB International, Wallingford.

Shochat, E., S. Lerman & E. **Fernández-Juricic**. 2010. Birds in urban ecosystems: population dynamics, community structure, biodiversity, and conservation. In: J. Aitkenhead-Peterson and A. Volder (eds), *Urban Ecosystem Ecology*, pp. 75-86. Agronomy Monograph 55. ASA-CSSA-SSSA, Madison.

Dolan, T. & E. **Fernández-Juricic**. 2010. Retinal ganglion cell topography of five species of ground foraging birds. *BRAIN, BEHAVIOR AND EVOLUTION* 75: 111-121.

Rodríguez-Prieto, I. J. José Martín & E. **Fernández-Juricic**. 2010. Habituation to low-risk predators improves body condition in lizards. *BEHAVIORAL ECOLOGY AND*

SOCIOBIOLOGY 64: 1937-1945.

Fernández-Juricic, E., C.T. O'Rourke & T. Pitlik. 2010. Visual coverage and scanning behavior in two corvid species: American crow and Western scrub jay. *JOURNAL OF COMPARATIVE PHYSIOLOGY A* 196: 879-888.

O'Rourke, C.T., M.I. Hall, T. Pitlik & E. **Fernández-Juricic**. 2010. Hawk eyes I: diurnal raptors differ in visual fields and degree of eye movement. *PLoS ONE* 5(9): e12802.

O'Rourke, C.T., T. Pitlik, M. Hoover* & E. **Fernández-Juricic**. 2010. Hawk eyes II: diurnal raptors differ in head movement strategies when scanning from perches. *PLoS ONE* 5(9): e12169.

Rodríguez-Prieto, I. J. José Martín & E. **Fernández-Juricic**. 2011. Individual variation in behavioural plasticity: direct and indirect effects of boldness, exploration and sociability on habituation to predators in lizards. *PROCEEDINGS OF THE ROYAL SOCIETY OF LONDON B* 278: 266–273.

Fernández-Juricic, E. B. Moore, M. Doppler*, J. Freeman*, B.F. Blackwell, S.L. Lima & T.L. DeVault. 2011. Testing the terrain hypothesis: Canada geese see their world laterally and obliquely. *BRAIN, BEHAVIOR AND EVOLUTION* 77: 147-158.

Fernández-Juricic, E., M.D. Gall, T. Dolan, C. O'Rourke, S. Thomas*, J.R. Lynch*. 2011. Visual systems and vigilance behaviour of two ground-foraging avian prey species: white-crowned sparrows and California towhees. *ANIMAL BEHAVIOUR* 81: 705-713.

Jokimäki, J., M.-L. Kaisanlahti-Jokimäki, J. Suhonen, P. Clergeau, M. Pautasso & E. **Fernández-Juricic**. 2011. Merging wildlife community ecology with animal behavioral ecology for a better urban landscape planning. *LANDSCAPE AND URBAN PLANNING* 100: 383-385.

Pautasso, M., K. Böhning-Gaese, P. Clergeau, V.R. Cueto, M. Dinetti, E. **Fernández-Juricic**, M.-L. Kaisanlahti-Jokimäki, J. Jokimäki, M.L. McKinney, N.S. Sodhi, D. Storch, L. Tomialojc, P.J. Weisberg, J. Woinarski, R.A. Fuller & E. Cantarello. 2011. Global macroecology of bird assemblages in urbanized and semi-natural ecosystems. *GLOBAL ECOLOGY AND BIOGEOGRAPHY* 20: 426-436.

Fernández-Juricic, E. J. Gaffney*, B.F. Blackwell, P. Baumhardt. 2011. Bird strikes and aircraft fuselage color: a correlational study. *HUMAN-WILDLIFE INTERACTIONS* 5: 224-234.

Bennett, V.J., E. **Fernández-Juricic**, P.A. Zollner, M.J. Beard, L. Westphal & C.L. LeBlanc. 2011. Modelling the responses of wildlife to human disturbance: An evaluation of alternative management scenarios for black-crowned night-herons. *ECOLOGICAL MODELLING* 222: 2770-2779.

Fernández-Juricic, E. G. Beauchamp, R. Treminio* & M. Hoover*. 2011. Making heads turn:

association between head movements during vigilance and perceived predation risk in brown-headed cowbird flocks. *ANIMAL BEHAVIOUR* 82: 573-577.

Fernández-Juricic, E. & V. Kowalski. 2011. Where does a flock end from an information perspective? A comparative experiment with live and robotic birds. *BEHAVIORAL ECOLOGY* 22: 1304-1311.

Rogers, B.L., C.G. Lowe & E. **Fernández-Juricic**. 2011. Recovery of visual performance in rosy rockfish (*Sebastes rosaceus*) following exophthalmia resulting from barotrauma. *FISHERIES RESEARCH* 112: 1-7.

Ullmann, J.F.P., B.A. Moore, S.E. Temple, E. **Fernández-Juricic** & S.P. Collin. 2012. The retinal wholemount technique: a window to understanding the brain and behaviour. *BRAIN, BEHAVIOR AND EVOLUTION* 79: 26-44.

Fernández-Juricic, E. 2012. Sensory basis of vigilance behavior in birds: synthesis and future prospects. *BEHAVIOURAL PROCESSES* 89: 143-152.

Fernández-Juricic, E. M. Deisher*, A.C. Stark* & J. Randolet. 2012. Predator detection is limited in microhabitats with high light intensity: an experiment with brown-headed cowbirds. *ETHOLOGY* 188: 341-350.

Blackwell, B.F., T.L. DeVault, T.W. Seamans, S.L. Lima, P. Baumhardt & E. **Fernández-Juricic**. 2012. Exploiting avian vision with aircraft lighting to reduce bird strikes. *JOURNAL OF APPLIED ECOLOGY* 49: 758-766.

Moore, B.A., P. Baumhardt, M. Doppler*, J. Randolet, B.F. Blackwell, T.L. DeVault, E.R. Loew & E. **Fernández-Juricic**. 2012. Oblique color vision in an open-habitat bird: spectral sensitivity, photoreceptor distribution, and behavioral implications. *JOURNAL OF EXPERIMENTAL BIOLOGY* 215: 3442-3452.

Ronald, K.L., E. **Fernández-Juricic** & J. Lucas. 2012. Taking the sensory approach: how individual differences in sensory perception can influence mate choice. *ANIMAL BEHAVIOUR* 84: 1283–1294.

Moore B.A., S.P. Collin, E.J. Warrant, E.R. Loew, S. Johnsen, M.I. Hall, C.P. Heesy, A.N. Iwaniuk, J.M. Kamilar, K.E. Yopak, G. Moritz, T.J. Lisney, N.J. Dominy, J.R. Corfield, O.R.P. Bininda-Emonds & E. **Fernández-Juricic**. 2012. A novel method to measure retinal specialization traits from topographic maps for comparative analysis. *JOURNAL OF VISION* 12: 1-24.

Blackwell, B.F., T.W. Seamans, P.M. Schmidt, T.L. DeVault, J.L. Belant, M.J. Whittingham, J. A. Martin & E. **Fernández-Juricic**. 2013. A framework for managing airport grasslands and birds amidst conflicting priorities. *IBIS* 155: 199-203.

Gall, M.D., L.D. Hough* & E. **Fernández-Juricic**. 2013. Age-related characteristics of foraging

habitats and foraging behaviors in the Black Phoebe (*Sayornis nigricans*). SOUTHWESTERN NATURALIST 58: 41-49.

Moore B.A., M. Doppler, J.E. Young* & E. **Fernández-Juricic**. 2013. Interspecific differences in the visual system and scanning behavior of three forest passerines that form heterospecific flocks. JOURNAL OF COMPARATIVE PHYSIOLOGY A 199: 263–277.

Fernández-Juricic, E., A. Ojeda, M. Deisher*, B. Burry*, P. Baumhardt, A. Stark*, A.G. Elmore* & A.L. Ensminger. 2013. Do male and female cowbirds see their world differently? Implications for sex differences in the sensory system of an avian brood parasite. PLoS ONE 8(3): e58985.

Blackwell, B.F. & E. **Fernández-Juricic**. 2013. Behavior and physiology in the development and application of visual deterrents at airports. In: Wildlife Management in Airport Environments, pp. 11-22. T.L DeVault, B.F. Blackwell & J.L. Belant, Editors. The Johns Hopkins University Press, Baltimore, MD.

Martin, J.A., T.J. Conkling, J.L. Belant, K.M. Biondi, B.F. Blackwell, T.L. DeVault, E. **Fernández-Juricic**, P.M. Schmidt & T.W. Seamans. 2013. Wildlife conservation and alternative land uses at airports. In: Wildlife Management in Airport Environments, pp. 117-125. T.L DeVault, B.F. Blackwell & J.L. Belant, Editors. The Johns Hopkins University Press, Baltimore, MD.

Tyrrell, L.P., B.A. Moore, C. Loftis & E. **Fernández-Juricic**. 2013. Looking above the prairie: localized and upward acute vision in a native grassland bird. SCIENTIFIC REPORTS 3, Article number: 3231

Davidson G.L., S. Butler, E. **Fernández-Juricic**, A. Thornton & N.S. Clayton. A. 2014. Gaze sensitivity: function and mechanisms from sensory and cognitive perspectives. ANIMAL BEHAVIOUR 87:3-15.

Cooke S.J., D.T. Blumstein, R. Buchholz, T. Caro, E. **Fernández-Juricic**, C.E. Franklin, J. Metcalfe, C.M. O'Connor, C. St. Clair, W.J. Sutherland, & M. Wikelski. 2014. Physiology, behavior and conservation. PHYSIOLOGICAL AND BIOCHEMICAL ZOOLOGY 87: 1-14.

DeVault, T.L., B.F. Blackwell, T.W. Seamans, S.L. Lima & E. **Fernández-Juricic**. 2014. Effects of vehicle speed on flight initiation by turkey vultures: implications for bird-vehicle collisions PLoS ONE 9(2): e87944.

Gutiérrez-Ibáñez, C., A.N. Iwaniuk, B.A. Moore, E. **Fernández-Juricic**, J.R. Corfield, J. Krilow, J. Kolominsky & D.R. Wylie. 2014. Mosaic and concerted evolution in the visual system of birds. PLoS ONE 9(3): e90102.

Randolet, J., J.A. Lucas & E. **Fernández-Juricic**. 2014. Non-redundant social information use in avian flocks with multisensory stimuli. ETHOLOGY 120: 375-387.

- Baumhardt P.E., B.A. Moore, M. Doppler & E. **Fernández-Juricic**. 2014. Do American goldfinches see their world like passive prey foragers? A study on visual fields, retinal topography, and sensitivity of photoreceptors. *BRAIN, BEHAVIOR, AND EVOLUTION* 83: 181-198.
- Rodriguez-Prieto, I., V.J. Bennett, P.A. Zollner, M. Mycroft, M. List & E. **Fernández-Juricic**. 2014. Simulating the responses of forest bird species to multi-use recreational trails. *LANDSCAPE AND URBAN PLANNING* 127: 164-172.
- Ensminger, A.L. & E. **Fernández-Juricic**. 2014. Individual variation in cone photoreceptor density in house sparrows: implications for between-individual differences in visual resolution and chromatic contrast. *PLoS ONE* 9(11): e111854.
- Butler, S.R. & E. **Fernández-Juricic**. 2014. European starlings recognize the location of robotic conspecific attention. *BIOLOGY LETTERS* 10: 20140665.
- Tyrrell, L.P., S.R. Butler, J.L. Yorzinski & E. **Fernández-Juricic**. 2014. A novel system for bi-ocular eye-tracking in vertebrates with laterally placed eyes. *METHODS IN ECOLOGY AND EVOLUTION* 5: 1070-1077.
- DeVault, T.L., B.F. Blackwell, T.W. Seamans, S.L. Lima & E. **Fernández-Juricic**. 2015. Speed kills: ineffective avian escape responses to oncoming vehicles. *PROCEEDINGS OF THE ROYALS SOCIETY B* 282: 20142188.
- Lima, S.L., B.F. Blackwell, T.L. DeVault & E. **Fernández-Juricic**. 2015. Animal reactions to oncoming vehicles: a conceptual review. *BIOLOGICAL REVIEWS* 90: 60-76.
- Tyrrell, L.P. & E. **Fernández-Juricic**. 2015. Sensory systems and escape behavior. In: *Escaping from predators: an integrative view of escape decisions*, pages: 323- 342. W.E. Cooper & D.T. Blumstein, Editors. Cambridge University Press, Cambridge.
- Doppler, M., B.F. Blackwell, T.L. DeVault & E. **Fernández-Juricic**. 2015. Cowbird responses to aircraft with lights tuned to their eyes: implications for bird-aircraft collisions. *CONDOR ORNITHOLOGICAL APPLICATIONS* 117: 165-177.
- Moore, B.A., D. Pita, L.P. Tyrrell & E. **Fernández-Juricic**. 2015. Vision in avian emberizid foragers: maximizing both binocular vision and fronto-lateral visual acuity. *JOURNAL OF EXPERIMENTAL BIOLOGY* 218:1347-1358.
- Tyrrell, L.P., S.R. Butler & E. **Fernández-Juricic**. 2015. Oculomotor strategy of an avian ground forager: tilted and weakly yoked eye saccades. *JOURNAL OF EXPERIMENTAL BIOLOGY* 218: 2651-2657.
- Snep, R.P.H, J.L. Kooijmans, R.G.M. Kwak, R.P.B. Foppen, H. Parsons, M. Awasthy, H.L.K. Sierdsema, J.M. Marzluff, E. **Fernández-Juricic**, J. de Laet & Y.M. van Heezik. 2015. Urban bird conservation: presenting stakeholder-specific arguments for the development of bird-

friendly cities. *URBAN ECOSYSTEMS* 19: 1535-1550.

Pita, D., B.A. Moore, L.P. Tyrrell & E. **Fernández-Juricic**. 2015. Vision in two cyprinid fish: implications for collective behavior. *PeerJ* 3:e1113.

Sheridan, E., J. Randolet, T.L. DeVault, T.W. Seamans, B.F. Blackwell & E. **Fernandez-Juricic**. 2015. The effects of radar on avian behavior: implications for wildlife management at airports. *APPLIED ANIMAL BEHAVIOUR SCIENCE* 171: 241-252.

Ronald, K.L., T. Skillman, A. Lin*, Q. Li*, E. **Fernández-Juricic** & J. Lucas. 2015. Watch your tone: social conditions modulate singing strategies. *ETHOLOGY* 121: 1104-1115.

Fernández-Juricic, E. 2016. The role of animal sensory perception in behavior-based management. In: *Conservation Behaviour: applying behavioural ecology to wildlife conservation and management*. D. Saltz & O. Berger-Tal, Editors. Pp. 149-175. Cambridge University Press, Cambridge.

Moore, B.A., I. Yoo, L.P. Tyrrell, B. Benes & E. **Fernández-Juricic**. 2016. FOVEA: a new program to standardize the measurement of foveal pit morphology. *PeerJ* 4:e1785.

Livezey, K.B., E. **Fernández-Juricic** & D.T. Blumstein. 2016. Database of bird flight initiation distances to assist in estimating effects from human disturbance and delineating buffer areas. *JOURNAL OF FISH AND WILDLIFE MANAGEMENT* 7: 181-191.

Bautista, L.M. & E. **Fernández-Juricic**. 2016. Optimización del comportamiento. Pages 155-193 in *Etología Adaptativa: el comportamiento como producto de la selección natural* (Editor: Juan Carranza). UCOPress, Editorial Universidad de Córdoba, Córdoba & Universidad de Extremadura, Cáceres.

Fernández-Juricic, E. & B.A. Schulte. 2016. Conservation behaviour: continued application, development, and expansion. *ANIMAL BEHAVIOUR* 120: 195-196.

Blackwell, B.F., T.L. DeVault, E.M. Gese, L. Gilbert-Norton & E. **Fernández-Juricic**. 2016. No single solution: application of behavioural principles in mitigating human-wildlife conflict. *ANIMAL BEHAVIOUR* 120: 245-254.

Butler, S.R., C. Hosinski*, J. Lucas & E. **Fernández-Juricic**. 2016. Social birds copy each other's lateral scans while monitoring group mates with low acuity vision. *ANIMAL BEHAVIOUR* 121: 21-31.

Greggor, A.L., O. Berger-Tal, D.T. Blumstein, L. Angeloni, C. Bessa-Gomes, B.F. Blackwell, C. Cassidy St Clair, K. Crooks, S. de Silva, E. **Fernández-Juricic**, S.Z. Goldenberg, S. Mesnick, M. Owen, C.J. Price, D. Saltz, C. J. Schell, A.V. Suarez, R.R. Swaisgood, C.S. Winchell, W.J. Sutherland. 2016. Research priorities from animal behaviour for maximising conservation progress. *TRENDS IN ECOLOGY AND EVOLUTION* 31: 953-964.

- Pita, D., J. Halloy, B. Collignon & E. **Fernández-Juricic**. 2016. Collective behaviour in vertebrates: a sensory perspective. *ROYAL SOCIETY OPEN SCIENCE* 3: 160377.
- Moore, B.A., L.P. Tyrrell, J.M. Kamilar, S.P. Collin, N.J. Dominy, M.I. Hall, C.P. Heesy, T.J. Lisney, E.R. Loew, G.L. Moritz, S.S. Nava, E. Warrant, K.E. Yopak & E. **Fernández-Juricic**. 2016. Structure and function of regional specializations in the vertebrate retina. In: Kaas, J (ed.), *Evolution of Nervous Systems 2e*. vol. 1, pp. 351–372. Oxford: Elsevier.
- DeVault, T.L., T.W. Seamans, B.F. Blackwell, S.L. Lima, M.A. Martinez & E. **Fernández-Juricic**. 2017. Can experience reduce collisions between birds and vehicles? *JOURNAL OF ZOOLOGY* 301: 17-22.
- Moore, B.A., L.P. Tyrrell, D. Pita, O.R.P. Bininda-Emonds, and E. **Fernández-Juricic**. 2017. Does retinal configuration make the head and eyes of foveate birds move? *SCIENTIFIC REPORTS* 7, Article number: 38406.
- Ye, Y., Y. Jiang, C. Hu, Y. Liu, B. Qing, C. Wang, E. **Fernández-Juricic** & C. Ding. 2017. What makes a tactile forager join mixed-species flocks? A case study with the endangered Crested Ibis *Nipponia nippon*. *AUK: ORNITHOLOGICAL ADVANCES* 134: 421-431.
- Ronald, K.L., R. Zeng*, R. Stewart*, D. White, E. **Fernández-Juricic** & J. Lucas. 2017. What makes a multimodal signal attractive? A preference function approach. *BEHAVIORAL ECOLOGY* 28: 677-687.
- Tyrrell, L.P. & E. **Fernández-Juricic**. 2017. Avian binocular vision: it's not just about what birds can see, it's also about what they can't. *PLoS ONE* 12(3): e0173235.
- Tyrrell, L.P. & E. **Fernández-Juricic**. 2017. The hawk-eyed songbird: retinal morphology, eye shape, and visual fields of an aerial insectivore. *AMERICAN NATURALIST* 189: 709-717.
- Ronald, K.L., A.L. Ensminger, M.D. Shawkey, J.R. Lucas & E. **Fernández-Juricic**. 2017. Testing a key assumption in animal communication: between-individual variation in female visual systems alters perception of male signals. *BIOLOGY OPEN* 6: 1771-1783.
- Ronald, K.L., T.M. Sesterhenn, J.R. Lucas & E. **Fernández-Juricic**. 2017. The sensory substrate of multimodal communication in brown headed cowbirds: are females sensory 'specialists' or 'generalists'? *JOURNAL OF COMPARATIVE PHYSIOLOGY A* 203: 935-943.
- Butler, S. & E. **Fernández-Juricic**. 2018. European starlings use their acute vision to check on feline predators but not on conspecifics. *PLoS ONE* 13(1): e0188857.
- Butler, S., J.J. Templeton & E. **Fernández-Juricic**. 2018. How do birds look at their world? A novel avian visual fixation strategy. *BEHAVIORAL ECOLOGY AND SOCIOBIOLOGY* 72: 38.
- Tyrrell, L.P., B. Goller, B.A. Moore, D. Altshuler and E. **Fernández-Juricic**. 2018. The

orientation of visual space from the perspective of hummingbirds. *FRONTIERS IN NEUROSCIENCE* 12: 16.

DeVault, T., B.F. Blackwell, T.W. Seamans, S.L. Lima & E. **Fernández-Juricic**. 2018. Individual variation in avian avoidance behaviors in response to repeated, simulated vehicle approach. *CANADIAN JOURNAL OF ZOOLOGY* 96: 441-446.

Fernández-Juricic, E., J. Brand, B.F. Blackwell, T.W. Seamans & T.L. DeVault. 2018. Species with greater aerial maneuverability have higher frequency of collisions with aircraft: a comparative study. *FRONTIERS IN ECOLOGY AND EVOLUTION* 6: 17.

Dawson Pell, F.S.E., D.A. Potvin, C.P. Ratnayake, E. **Fernández-Juricic**, R.D. Magrath & A.N. Radford. 2018. Birds orient their heads appropriately in response to functionally referential alarm calls of heterospecifics. *ANIMAL BEHAVIOUR* 140: 109-118.

Ronald, K.L., E. **Fernández-Juricic** & J.R. Lucas. 2018. Mate choice in the eye and ear of the beholder? Female multimodal sensory configuration influences her preferences. *PROCEEDINGS OF THE ROYAL SOCIETY OF LONDON B* 285: 20180713.

Kissick, A., B. Dunning, E. **Fernández-Juricic** & J. Holland. 2018. Different responses of predator and prey functional diversity to fragmentation. *ECOLOGICAL APPLICATIONS* 28: 1853-1866.

Goller, B., B.F. Blackwell, T.L. DeVault, P. Baumhardt and E. **Fernández-Juricic**. 2018. Assessing bird avoidance of high-contrast lights using a choice test approach: implications for reducing human-induced avian mortality. *PeerJ* 6: e5404.

Potier, S., O. Duriez, G.B. Cunningham, V. Bonhomme, C.O'Rourke, E. **Fernández-Juricic** & F. Bonadonna. 2018. Visual field shape and foraging ecology in diurnal raptors. *JOURNAL OF EXPERIMENTAL BIOLOGY* 221 (doi: 10.1242/jeb.177295).

Berger-Tal, O., A.L. Greggor, B. Macura, C.A. Adams, A. Blumenthal, A. Bouskila, U. Candolin, C. Doran, E. **Fernández-Juricic**, K.M. Gotanda, C. Price, B.J. Putman, M. Segoli, L. Snijders, B.B.M. Wong & D.T. Blumstein. 2018. Systematic reviews and maps as tools for applying behavioral ecology to management and policy. *BEHAVIORAL ECOLOGY*, ary130 (<https://doi.org/10.1093/beheco/ary130>).

Berger-Tal, O., A.L. Greggor, B. Macura, C.A. Adams, A. Blumenthal, A. Bouskila, U. Candolin, C. Doran, E. **Fernández-Juricic**, K.M. Gotanda, C. Price, B.J. Putman, M. Segoli, L. Snijders, B.B.M. Wong & D.T. Blumstein. 2018. Systematic evidence synthesis as part of a larger process: a response to comments on Berger-Tal et al. *BEHAVIORAL ECOLOGY*, ary163 (<https://academic.oup.com/beheco/advance-article/doi/10.1093/beheco/ary163/5231012>).

Blackwell, B.F., T.W. Seamans, E. **Fernández-Juricic**, T.L. DeVault & R.J. Outward. 2019. Response of birds to aircraft approach in an airport environment. *JOURNAL OF WILDLIFE MANAGEMENT* 83: 893-901.

de Moraes, P.Z., P. Diniz, E. **Fernández-Juricic**, R.H. Macedo. 2019. Flirting with danger: predation risk interacts with male condition to influence sexual display. *BEHAVIORAL ECOLOGY* arz073 (<https://doi.org/10.1093/beheco/arz073>).

Fernández-Juricic, E., P.E. Baumhardt, L.P. Tyrrell, A. Elmore, S.T. DeLiberto & S.J. Werner. 2019. Vision in an abundant North American bird: the Red-winged Blackbird. *The Auk: Ornithological Advances* 136: ukz039 (<https://doi.org/10.1093/auk/ukz039>).

Adams, C.A., A. Blumenthal, E. **Fernández-Juricic**, E. Bayne & C. Cassady St Clair. 2019. Effect of anthropogenic light on bird movement, habitat selection, and distribution: a systematic map protocol. *ENVIRONMENTAL EVIDENCE* 8(Suppl 1):13.

Goller, B., T.K. Fellows, R. Dakin, L.P. Tyrrell, E. **Fernández-Juricic** & D.L. Altshuler. 2019. Spatial and temporal resolution of the visual system of Anna's hummingbirds (*Calypte anna*). *PHYSIOLOGICAL AND BIOCHEMICAL ZOOLOGY* 92: 481-495.

Pre-prints (2)

Pita, D. & E. **Fernández-Juricic**. The visual social environment affects non-additively neighbor spacing and interaction time in zebrafish. bioRxiv 511972; doi: <https://doi.org/10.1101/511972>

Tyrrell, L.P., L.B.C. Teixeira, R.R. Dubielzig, D. Pita, P. Baumhart, B.A. Moore & E. **Fernández-Juricic**. A novel cellular structure in the photoreceptors of insectivorous birds. bioRxiv 551945; doi: <https://doi.org/10.1101/551945>

Manuscripts currently in revision (6)

Tyrrell, L.P., L.B.C. Teixeira, R.R. Dubielzig, D. Pita, P. Baumhart, B.A. Moore & E. **Fernández-Juricic**. A novel cellular structure in the photoreceptors of insectivorous birds. *Scientific Reports* (revised version requested).

Pita, D. & E. **Fernández-Juricic**. The visual social environment affects non-additively neighbor spacing and interaction time in zebrafish. *PLoS ONE*.

Egan, C.C., B.F. Blackwell, E. **Fernández-Juricic**, P.E. Klug. Testing a key assumption of wildlife monitoring using drones: do birds perceive drones as risky? *The Condor: Ornithological Applications*.

Dominoni, D.M., W. Halfwerk, E. Baird, R.T. Buxton, E. **Fernández-Juricic**, K.M. Fristrup, K.E. Markham, M.F. McKenna, D.J. Mennitt, E.K. Perkin, B.M. Seymoure, D.C. Stoner, J.B. Tennesen, C.A. Toth, L.P. Tyrrell, A. Wilson, C.D. Francis, N.H. Carter, J.R. Barber. Perceptual pollution: Why conservation biology needs sensory ecology? *Nature Ecology and Evolution*.

Blackwell, B.F., T.W. Seamans, T.L. DeVault, S.L. Lima, M.B. Pfeiffer & E. **Fernández-Juricic**. Social information affects Canada goose alert and escape responses to vehicle approach: implications for animal-vehicle collisions. *PeerJ*.

Lemasson, B.H, K.R. Pilkiewicz, M.A. Rowland, A. Hein, J. Sun, A. Berdahl, M.L. Mayo, J. Moehlis, M. Porfiri, E. **Fernández-Juricic**, S. Garnier, E.M. Bollt, J.M. Carlson, M.R. Tarampi, K.L. Macuga, L. Rossi & C.-C. Shen. Decoding collective communications from the individual's perspective using Information Theory tools. *Journal of the Royal Society Interface*.

Manuscripts to be submitted in the next 30 days (4)

Ye, Y., C. Hu, Y. Jiang, B. Qing, C. Wang, E. **Fernández-Juricic** & C. Ding. Little Egrets *Egretta garzetta* benefits from flushing prey and early warning in mixed-species groups with Crested Ibises *Nipponia nippon*.

Werner, S.J., S.T. DeLiberto, P.E. Baumhardt & E. **Fernández-Juricic**. Integrating the bird's eye view into the development of non-lethal wildlife repellents.

Fernández-Juricic, E., P.E. Baumhardt, B. Goller & J.R. Lucas. Sorting out birds along the color vision continuum: from a unidimensional to a multidimensional approach.

Blackwell, B.F., T.W. Seamans, R.A. Dolbeer, T.L. DeVault & E. **Fernández-Juricic**. How much evidence supports a key wildlife management tenet: more birds mean more bird-aircraft collisions?

Media publications (6)

Fernández-Juricic, E. & E.V. Alvarez. 1995. Parrots in the mist. *Nuestras Aves XIII*, 32: 22. (Argentina) (in Spanish)

Fernández-Juricic, E. 1997. The language of the Southern sea lion. *Biológica* 10:22-23. (Spain) (in Spanish)

Fernández-Juricic, E. 1997. Parrots in Córdoba. *Naturaleza & Conservación* 1(2):22. (Argentina) (in Spanish)

Fernández-Juricic, E. 1998. Blue-fronted Amazons in the wild: a field study in Argentina. *The Amazona Quarterly* 14:5-7. (USA)

Fernández-Juricic, E. 1999. Wild sounds of a garrulous parrot: Blue-fronted Amazons. *The Amazona Quarterly* 15: 7-10. (USA)

Fernández-Juricic, E. 1999. Saving the Blue-fronted Amazon at its southern limit: an environmental education approach. *Endangered Species Update* 16:74-77.

Extension publications (4)

Fernández-Juricic, E., A.I. Siriczman & E. Alvarez. 1995. Ecology of marine mammals. Publication N° 4. The Open University. Argentina. (In Spanish)

Fernández-Juricic, E. & R. Miatello. 1996. Blue-fronted amazons in Córdoba. Publication N° 8. The Open University. Córdoba, Argentina. (In Spanish)

Fernández-Juricic, E. & L. Martín. 1996. Conservation biology. Publication N°7 The Open University. Argentina. (In Spanish)

Fernández-Juricic, E. & M. Sironi. 1996. Conservation and marine mammals. Publication N° 5 The Open University. Argentina. (In Spanish)

Presented papers in Conferences (since Purdue appointment in 2009)

- **Fernández-Juricic**, E., A. Montemaggiore & P. Jori. Responses of gulls to a remote control operated hawk model: implications for bird strikes. North American Bird Strike Annual Meeting, Victoria, Canada. September 2009.

- **Fernández-Juricic**, E., M.D. Gall, T. Dolan, C. O'Rourke, S. Thomas* & J.R. Lynch*. Understanding the mechanistic basis of vigilance: visual systems and scanning strategies in two ground foraging birds. Animal Behavior Society Meeting, Williamsburg (USA), July 2010.

- Moore, B., M. Doppler, J. Freeman*, K. Kapernaros*, B.F. Blackwell, & E. **Fernández-Juricic**. Geese see the world laterally and transversally: implications for vigilance. Animal Behavior Society Meeting, Williamsburg (USA), July 2010.

- O'Rourke, C. & E. **Fernández-Juricic**. Hawk eyes: diurnal raptors differ in visual strategies for prey searching. International Behavioral Ecology Congress at Western Australia University (Perth, Australia). September 2010.

- **Fernández-Juricic**, E. & V.J. Kowalski. Social information transfer varies between species with different visual acuity: a comparative experiment with live and robotic birds. International Behavioral Ecology Congress at Western Australia University (Perth, Australia). September 2010.

- Allawzi*, A.M. E.N. Grelle*, M.E. Teclaw*, B. Moore*, E. **Fernández-Juricic**, N. Pelaez. Isometric force of isolated extraocular muscles of wild cowbirds. Experimental Biology Meeting, Anaheim, CA. April 2010.

- Moore*, B., Doppler*, M.S., Freeman*, J., Kapernaros*, K., Blackwell, B.F. and **Fernández-Juricic**, E.J. Geese see the world laterally and transversally: implications for vigilance. 47th Annual Meeting of the Animal Behavior Society. College of William and Mary, Williamsburg, VA. July 2010.

- Doppler*, M., B. Moore*, J. Young*, K. Officer* and E. **Fernández-Juricic**. It's all about eye movement: different visual and foraging strategies of the chickadee and nuthatch. Sigma Xi Grad Student Poster Competition. West Lafayette, IN. February 2011.

- Doppler*, M., Baumhardt, P., Moore, B., Randolet, J., **Fernández-Juricic**, E. (2011). Color Vision in Canada Geese: An "Oblique" Violet-sensitive System. Poster presented at *Animal Behavior Society Conference* (Bloomington, IN).

- Doppler*, M., B. Moore*, J. Young*, and E. **Fernández-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. **Fernández-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. **Fernández-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. **Fernández-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. **Fernández-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., **Fernández-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., **Fernández-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, **Fernández-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., **Fernández-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
- **Fernández-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. **Fernández-Juricic**. Interspecific differences in the visual system and scanning behavior of three forest passerines that form heterospecific flocks. Meril-NIH Conference, Colorado State University, August 2012.
- Pita*, D., B.A. Moore, L. Tyrrell, E. **Fernández-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., **Fernández-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., **Fernández-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., **Fernández-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. **Fernández-Juricic**. 2013. Visual ecology of red-winged blackbirds and common grackles. Animal Behavior Conference, Bloomington, IN. March 2013
- Doppler, M., B.F. Blackwell, E. **Fernández-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 **Fernández-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.
- Tyrrell, L.P. & E. **Fernández-Juricic**. 2016. The eyes of flycatchers: A new and unique cell type confers exceptional motion detection ability. [Talk] *North American Ornithological Conference* (Washington, D.C.) August 2016.
- **Fernández-Juricic**, E. & L.P. Tyrrell. 2016. The visual system of the hawk-eyed songbird, the Tree Swallow. [Talk] *North American Ornithological Conference* (Washington, D.C.) August 2016.
- Tyrrell L.P., D. Pita, & E. **Fernández-Juricic**. The role of vision in sparrow anti-predator behavior. [Talk] *Animal Behavior Society* (Columbia, MO) August 2016.
- Ritschard*, E.A., L.P. Tyrrell, & E. **Fernández-Juricic**. The role of habitat shaping motion detection in two songbirds. [Talk] *SURF Symposium* (West Lafayette, IN) August 2016.
- **Fernández-Juricic**, E., B.A. Moore, L.P. Tyrrell, D. Pita & O. Bininda-Emonds. How does retinal configuration make the head and eyes of birds move? Implications for anti-predator behavior. [Talk] *Animal Behavior Society* (Columbia, MO) August 2016.
- Butler, SR., E.C. Hosinski*, J.R. Lucas, E. **Fernández-Juricic**. I've got my eye on you: social monitoring in European starlings. [Talk] *Animal Behavior Society meeting* (Columbia, MO). August 2016.

- Butler, SR. & **Fernández-Juricic**, E. How birds see their world: visual fixation in European starlings. April 7 2017 at the Center for the Integrative Study of Animal Behavior. Indiana University. [Talk].
- Ronald, K. L., **Fernández-Juricic**, E., and Lucas, J.R. Is mate choice in the eye and ear of the beholder? 2017 Sensorium Conference, University of Cincinnati, OH. September 2017. [Talk].
- Goller B, BF Blackwell, TL DeVault, E **Fernández-Juricic**. Preferential avoidance of some high-contrast colored lights in brown-headed cowbirds. 2017 Sensorium Conference. Cincinnati, OH. September 2017. [Talk].
- Ronald, K. L., **Fernández-Juricic**, E., and Lucas, J. R. Is mate choice in the eye and ear of the beholder? Multimodal sensory configuration influences mating preferences Animal Behavior Society. University of Toronto Scarborough, Toronto, Ontario, Canada June 2017. [Invited Talk]
- Ronald, K. L., **Fernández-Juricic**, E., and Lucas, J. R. Multimodal sensory processing influences mating preferences in a songbird species. *W.M Keck Center for Behavioral Biology Symposium*. North Carolina State University, Raleigh, NC. April 2017. [Invited Talk]
- Ronald, K. L., **Fernández-Juricic**, E., and Lucas, J. R. Multimodal sensory processing influences mating preferences in a songbird species. *Center for Integrated Studies in Animal Behavior Conference*. Indiana University, Bloomington, IN. April 2017. [Talk]
- DeVault, T.L., B. Blackwell, T. Seamans, S.L. Lima, E. **Fernández-Juricic**. 2017. Individual variation in avian avoidance behaviors in response to repeated, simulated vehicle approach. The Wildlife Society 24th Annual Conference, Albuquerque, New Mexico, 2017. [*invited talk as part of symposium Wildlife as individuals: considering inter-individual variation to inform management*].
- DeVault, T.L., B. Blackwell, T. Seamans, S.L. Lima, E. **Fernández-Juricic**. 2017. Commercial Aviation Safety Team (CAST) Meeting. Washington, DC, 2017. [Talk].
- **Fernández-Juricic**, E. DeVault, T.L., B. Blackwell, T. Seamans, Ikerd, N. Is alert behavior a good proxy of visual detection? Animal Behavior Society. University of Toronto Scarborough, Toronto, Ontario, Canada June 2017. [Invited Talk]
- **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]
- **Fernández-Juricic**, E. & P. Baumhardt. Sorting out birds along the color vision continuum: from a unidimensional to a multidimensional approach. Sensorium Conference. West Lafayette, IN. November 2018. [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.

Sensorium Conference. West Lafayette, IN. November 2018. [Talk].

- Trapp, R. & **Fernández-Juricic**, E. Sensory Constraints on Individual Recognition and Inter-Individual Spacing. Sensorium Conference. Purdue University, West Lafayette, IN. November 2018. [Poster].

- Goller, B., P. Baumhardt, T. Katzner, J. Lucas, and E. **Fernández-Juricic**. Visual fields and retinal morphology of bald and golden eagles. Sensorium Conference. Purdue University, West Lafayette, IN. November 2018. [Poster].

- Goller, B., P. Baumhardt, E. Dominguez-Villegas, T. Katzner, J. Lucas, and E. **Fernández-Juricic**. Measuring eagle visual and auditory sensory perception to enhance deterrent technology for wind turbines. Wind Wildlife Research Meeting. St. Paul, MN. November 2018. [Poster].

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: ~ 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 (4):

- Diana Pita
- Rebecca Trapp
- Ryan Lunn
- Morgan Chaney

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. Charlotte 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.

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.

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.

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 in R/RStudio (main course)
- Evolution of Behavior (team-taught)
- 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.

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.

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

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.

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.

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. Currently: Deputy Convener.
- 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/>).

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