

**c v n** CURRÍCULUM VITAE NORMALIZADO



**David Canal Piña**

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## Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

My research focuses on the evolutionary understanding of the processes underlying variation in phenotypic and life-history traits. I have mainly investigated issues related to sexual selection (mate choice, social and genetic mating strategies, and evolution of sexually selected traits). However, convinced that scientists must expand the frontiers of the knowledge but also find solutions to the problems our societies face, in the last years, I have expanded my research to investigate individual and population responses to environmental changes, with a particular focus on climate change. Further, I have frequently implemented my expertise to address relevant applied ecology and conservation questions.

I developed my undergraduate thesis with Dr Göran Arnqvist's (Citations=18K, h=60) at Uppsala University (Sweden) and published my first article (Behav. Ecol.). After my graduation as a Biologist (University of Alcalá, Spain, 2004), I was awarded a pre-doctoral I3P grant from the Spanish National Research Council (CSIC) to develop my PhD with Dr Jaime Potti (Citations=6K, h=46). Using the pied flycatcher (*Ficedula hypoleuca*) as the model species, I investigated the adaptiveness of different mating strategies and the impact of individual genetic diversity on fitness, which resulted in high profile publications (Heredity, J. Evol. Biol., Behav. Ecol., Behav. Ecol. Sociobiol). During this period, I improved bird capturing, got fieldwork design and data collection skills and learned the basis of DNA genotyping techniques and specific software for genetic analyses. I also carried two stays at the Research Institute of Hunting Resources (IREC, Spain) and the Center for the Study and Conservation of Birds of Prey in Argentina (CECARA). I have also enjoyed several post-doc positions and contracts in Spain and abroad, including positions with the research groups led by outstanding researchers such as 1) Dr Paola Laiolo (UMIB, Spain; Citations=3K, h=33) and 2) Dr Laszlo Garamszegi (EBD, Spain; Citations=8K, h=54). These positions allowed me to extend my research into new evolutionary topics such as song evolution, coevolution of parasite-hosts (Behav. Ecol. Mol. Ecol.). My postdoctoral positions with 3) Dr Miguel Ferrer (EBD, Spain; Citations=8K, h=52), framed within a European project, and 4) at the National Research Council (CONICET, Argentina) offered me the opportunity to further develop my research line in conservation biology (Conserv. Genet, PLOS One, Biodivers. Conserv., 2 book chapters). Currently, 5) I have an MTA-Premium fellowship, one of the most prestigious post-doc in Hungary, at the Centre for Ecological Research, wherein my work on behavioural evolution is leading to notable publications (Sci, Rep., Evolution). Overall, I have been affiliated with centres from 4 countries and have spent more than 5 years in foreign centres, which has allowed me to **gain remarkable (inter)national experience and establish an exceptional network of collaborators.**

I have published 44 scientific articles (4 more under review) in SCI journals (average IF= 3.08), 38 of them in Q1, which have received 855 citations (Google Scholar; h-Index = 17). In 22 of these publications, I was the first (18) or last (4) author. I have been PI in 3 out of the 16



(inter)national research projects I have participated in (all awarded in competitive calls). The project as PI summarizes total funding of 115.000 euros. **These facts prove my leadership, independent thinking and fund acquisition capacity.**

**I committed to disseminating my research output and transferring my knowledge.**

Thus, I have made 30 contributions to 30 (inter)national conferences and published two book chapters and several articles for the general public. My work has received attention from media in different countries (e.g., USA, Spain, Hungary) and has influenced wildlife policy and management decisions. I have supervised 10 (6 master and 4 Bachelor) students (5 more in progress), regularly participate as a member of tribunal evaluating Master's theses (2019-2021), and since 2020, I have been an Honorary Collaborator at the University of Cordoba. I have reviewed R&D projects for the Spanish National Research Plan and >40 papers in SCI journals, and I am an associated editor in 3 SCI journals (IBIS, Animal Biodiversity and Conservation and El Hornero).

Please, see my website ([www.davidcanalresearch.com](http://www.davidcanalresearch.com)) for my full CV.



## General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

Publications: 44 (3 more under review)

Publications in 1<sup>o</sup> quartile (Q1): 43

Book chapters: 2

h-index= 17 (Google Scholar)

Citations: 855 (Google Scholar)

Participation in research projects = 16 ( 3 of them as PI)

Participation in (inter)national congresses: 30

Intellectual Property registries = 2

Master students supervised = 6

Bachelor students supervised = 4

## David Canal Piña

Surname(s): **Canal Piña**  
Name: **David**  
DNI: **51986565X**  
ORCID: **0000-0003-2875-2987**  
ScopusID: **55669777300**  
ResearcherID: **E-4401-2013**  
Date of birth: **03/08/1980**  
Gender: **Male**  
Land line phone: **(+34) 620780341**  
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Personal web page: **<https://www.davidcanalresearch.com/>**

### Current professional situation

**Employing entity:** Centre for Ecological Research

**Department:** Institute of Ecology and Botany

**Professional category:** Postdoctoral fellowship

**City employing entity:** Hungary

**Phone:** (+36) 28 360122/149

**Start date:** 15/10/2019

**Primary (UNESCO code):** 240102 - Animal behaviour; 240106 - Animal ecology; 240210 - Population biology; 240800 - Ethology

**Performed tasks:** Research

**Identify key words:** Behavioural biology; Evolutionary biology; Conservation biology; Animal ecology

### Previous positions and activities

	Employing entity	Professional category	Start date
1	Scientific and Technical Research Council (CONICET), Argentina	Postdoctoral fellowship	01/04/2018
2	Doñana Biological Station-CSIC	Research contract	01/08/2016
3	Doñana Biological Station-CSIC	Research contract	01/05/2014
4	Doñana Biological Station-CSIC	Research contract	01/05/2013
5	Doñana Biological Station-CSIC	Research contract	20/06/2011
6	Research Unit of Biodiversity (UMIB)	Research contract	26/09/2010
7	Doñana Biological Station-CSIC	Pre-doctoral fellowship	01/01/2006

**1** **Employing entity:** Scientific and Technical Research Council (CONICET), Argentina

**Professional category:** Postdoctoral fellowship

**Start-End date:** 01/04/2018 - 15/10/2019



- 2** **Employing entity:** Doñana Biological Station-CSIC  
**Professional category:** Research contract  
**Start-End date:** 01/08/2016 - 31/03/2018  
**Performed tasks:** Scientific research
- 3** **Employing entity:** Doñana Biological Station-CSIC  
**Professional category:** Research contract  
**Start-End date:** 01/05/2014 - 31/12/2015  
**Performed tasks:** Scientific research
- 4** **Employing entity:** Doñana Biological Station-CSIC  
**Professional category:** Research contract  
**Start-End date:** 01/05/2013 - 31/12/2013  
**Performed tasks:** Scientific research
- 5** **Employing entity:** Doñana Biological Station-CSIC  
**Professional category:** Research contract  
**Start-End date:** 20/06/2011 - 19/09/2012  
**Performed tasks:** Scientific research
- 6** **Employing entity:** Research Unit of Biodiversity (UMIB)  
**Professional category:** Research contract  
**Start-End date:** 26/09/2010 - 31/12/2010  
**Performed tasks:** Scientific research
- 7** **Employing entity:** Doñana Biological Station-CSIC  
**Professional category:** Pre-doctoral fellowship  
**Start-End date:** 01/01/2006 - 31/12/2009  
**Performed tasks:** PhD development



## Education

### University education

#### 1st and 2nd cycle studies and pre-Bologna degrees

- 1 University degree:** Middle degree  
**Name of qualification:** Research Sufficiency Diploma (DEA)  
**Degree awarding entity:** Complutense University of Madrid. Spain  
**Date of qualification:** 27/09/2007
- 2 Name of qualification:** Bs.C Biological Sciences  
**Degree awarding entity:** University of Alcalá. Madrid. Spain  
**Date of qualification:** 23/09/2004
- 3 University degree:** Undergraduate thesis  
**Name of qualification:** Undergraduate thesis  
**Degree awarding entity:** Uppsala University, Sweden  
**Date of qualification:** 16/09/2004

#### Doctorates

**Doctorate programme:** Zoology and physical anthropology  
**Degree awarding entity:** Complutense University of Madrid  
**Date of degree:** 03/07/2012  
**Thesis title:** Extra pair paternity and individual genetic variation: implications for the fitness of pied flycatchers, *Ficedula hypoleuca*  
**Thesis director:** J Potti Sánchez  
**Obtained qualification:** Excellent Cum Laude (highest qualification)

#### Attended advanced, improvement and innovative teacher training and new technology courses and seminars focused on improving teaching

- 1 Title of course/seminar:** Advanced course to pilot remotely piloted aircrafts (UAVs-RPAs)  
**Organising entity:** AEROMAX- Gestión Aeronáutica      **Type of entity:** Business  
**Duration in hours:** 60 hours  
**Start-End date:** 21/09/2015 - 27/09/2015
- 2 Title of course/seminar:** Use of wild fauna in research: Animal experimentation and welfare, category C  
**Organising entity:** Centros de Estudios Biosanitarios      **Type of entity:** Business (CEB)  
**Duration in hours:** 40 hours  
**Start-End date:** 06/07/2015 - 21/07/2015



- 3** **Title of course/seminar:** Spatial database: POSTGIS 2  
**Organising entity:** Universitat Politècnica de València  
**Faculty, institute or centre:** Universitat Politècnica de València  
**Duration in hours:** 110 hours  
**Start-End date:** 16/03/2015 - 16/06/2015
- 4** **Title of course/seminar:** Specific wine english course - Meetings advanced  
**Organising entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
**Faculty, institute or centre:** Estación Biológica de Doñana  
**Duration in hours:** 30 hours  
**Start-End date:** 20/04/2015 - 31/05/2015
- 5** **Title of course/seminar:** Course of QGIS 2.6 Brighton  
**Organising entity:** MappingGIS  
**Duration in hours:** 60 hours  
**Start-End date:** 03/12/2014 - 30/12/2014
- 6** **Title of course/seminar:** ACCESS 2010 Advanced on line  
**Organising entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
**Faculty, institute or centre:** Estación Biológica de Doñana  
**Duration in hours:** 20 hours  
**Start-End date:** 07/10/2013 - 11/11/2013
- 7** **Title of course/seminar:** Writing of scientific articles and presentation of communications in congresses  
**Organising entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
**Faculty, institute or centre:** Estación Biológica de Doñana  
**Duration in hours:** 20 hours  
**Start-End date:** 07/10/2013 - 10/10/2013
- 8** **Title of course/seminar:** Global Change in the Mediterranean: Learning from experiences worldwide  
**Organising entity:** Ecogenes  
**Faculty, institute or centre:** Estación Biológica de Doñana  
**Duration in hours:** 16 hours  
**Start-End date:** 15/11/2012 - 16/11/2012
- 9** **Title of course/seminar:** Introduction to conservation genomics  
**Organising entity:** European Science Foundation **Type of entity:** Foundation  
**Faculty, institute or centre:** Universidad of Turku  
**Duration in hours:** 35 hours  
**Start-End date:** 30/09/2012 - 05/10/2012
- 10** **Title of course/seminar:** Use of wild fauna in research: Animal experimentation and welfare, category B  
**Organising entity:** Fundación General de la Universidad de Granada  
**Duration in hours:** 60 hours  
**Start-End date:** 28/05/2012 - 27/06/2012





- 11 Title of course/seminar:** Introduction to Real-Time PCR  
**Organising entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
**Faculty, institute or centre:** Estación Biológica de Doñana  
**Duration in hours:** 16 hours  
**Start-End date:** 26/03/2009 - 27/03/2010
- 12 Title of course/seminar:** Introduction to data analyses in Molecular Ecology  
**Organising entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
**Faculty, institute or centre:** Estación Biológica de Doñana  
**Duration in hours:** 18 hours  
**Start-End date:** 30/09/2009 - 02/10/2009
- 13 Title of course/seminar:** Capture-Recapture methods to estimate population parameters  
**Organising entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
**Faculty, institute or centre:** Estación Biológica de Doñana  
**Duration in hours:** 30 hours  
**Start-End date:** 06/10/2008 - 10/10/2008
- 14 Title of course/seminar:** Exploratory data analyses course. Natural patterns obtained using regressions  
**Organising entity:** Sociedad de Amigos del MNCN  
**Duration in hours:** 22 hours  
**Start date:** 01/02/2007

## Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English		C1	C1	C1	C1
Spanish		C1	C1	C1	C1

## Teaching experience

### General teaching experience

- 1 Name of the course:** Behavioural Biology  
**Professional category:** Fellowship  
**Type of teaching:** Laboratory work  
**University degree:** Degree in Biology  
**End date:** 30/06/2004  
**Entity:** University of Alcalá  
**Faculty, institute or centre:** Faculty of Sciences
- 2 Name of the course:** Ecology II  
**Type of programme:** Bachelor's degree  
**University degree:** Degree in Biology (Environmental and Health Biology)



**Start date:** 04/2021

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 15

**Entity:** University of Cordoba

**Faculty, institute or centre:** Faculty of Sciences

## Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** MHC supertypes affect survival and lifetime reproductive success in a population of pied flycatchers  
**Type of project:** Master Student "Biodiversity and Conservation Biology"  
**Co-director of thesis:** Jesús Martínez-Padilla  
**Entity:** Pablo de Olavide University. Seville. Spain  
**Student:** Antonio Lara Rodriguez  
**Obtained qualification:** 8.5  
**Date of reading:** 20/10/2021
- 2** **Project title:** The role of dispersal in the long-term trajectory and selection pattern of a secondary sexual trait in pied flycatchers  
**Type of project:** Master Student "Biodiversity and Conservation Biology"  
**Co-director of thesis:** Jesús Martínez-Padilla  
**Entity:** Pablo de Olavide University. Seville. Spain  
**Student:** Paula Sianes Castillo  
**Obtained qualification:** 7  
**Date of reading:** 20/10/2021
- 3** **Project title:** Influencia de las condiciones ambientales en la prevalencia y abundancia de ectoparásitos en el papamoscas cerrojillo: un estudio a largo plazo  
**Type of project:** End of course project  
**Co-director of thesis:** Carlos Rouco  
**Entity:** University of Cordoba. Cordoba. Spain      **Type of entity:** University  
**Student:** Juan S. Triviño Alberca  
**Obtained qualification:** 7.5  
**Date of reading:** 03/09/2021
- 4** **Project title:** Could supplementary feeding promote wild rabbit translocations success?  
**Type of project:** End of course project  
**Co-director of thesis:** Carlos Rouco  
**Entity:** University of Cordoba. Cordoba. Spain      **Type of entity:** University  
**Student:** Mara d'Arán Segovia Trufero  
**Obtained qualification:** Matricula de Honor 9.6  
**Date of reading:** 03/07/2021
- 5** **Project title:** ¿Influye el sexo, edad o hábitat de cría en la infección por malaria aviar del papamoscas cerrojillo?  
**Type of project:** End of course project  
**Co-director of thesis:** Carlos Rouco  
**Entity:** University of Cordoba. Cordoba. Spain  
**Student:** Cristina Camacho Rodríguez  
**Obtained qualification:** 9.1  
**Date of reading:** 03/07/2021



- 6** **Project title:** ¿Las translocaciones de conejo pueden afectar al tamaño de sus áreas de campeo?  
**Type of project:** End of course project  
**Co-director of thesis:** Carlos Rouco  
**Entity:** University of Cordoba. Cordoba. Spain  
**Student:** José J Serrano Rodríguez  
**Obtained qualification:** 9.1  
**Date of reading:** 03/07/2021
- 7** **Project title:** Patterns of selection on the dorsal coloration of male pied flycatchers  
**Type of project:** Master Student "Biodiversity and Conservation Biology"  
**Co-director of thesis:** Jesús Martínez-Padilla  
**Entity:** Pablo de Olavide University. Seville. Spain  
**Student:** José I Morales Mata  
**Obtained qualification:** 9  
**Date of reading:** 06/10/2020
- 8** **Project title:** Are males choosy? Investigating male mate preference in a songbird  
**Type of project:** Master Student "Biodiversity and Conservation Biology"  
**Co-director of thesis:** Laszlo Garamszegi  
**Entity:** Pablo de Olavide University. Seville. Spain  
**Student:** Ruben García Dominguez  
**Obtained qualification:** 7.8  
**Date of reading:** 04/10/2017
- 9** **Project title:** Survival costs of polygyny in the pied flycatcher  
**Type of project:** Master Student "Biodiversity and Conservation Biology"  
**Co-director of thesis:** Simone Santoro  
**Entity:** Pablo de Olavide University. Seville. Spain  
**Student:** Pilar Fernandez  
**Obtained qualification:** 9  
**Date of reading:** 04/10/2017
- 10** **Project title:** Spatio-temporal causes of polygamy in the pied flycatcher. An approach at the local scale  
**Type of project:** Master Student "Biodiversity and Conservation Biology"  
**Co-director of thesis:** Jaime Potti Sanchez  
**Entity:** Pablo de Olavide University. Seville. Spain  
**Student:** Javier Manzano Baraza  
**Obtained qualification:** Matricula de Honor  
**Date of reading:** 09/10/2014

### Other activities/achievements not included above

- 1** **Description of the activity:** Member of Master's Thesis Tribunal  
**Organising entity:** Pablo de Olavide University  
**End date:** 2021
- 2** **Description of the activity:** Member of Master's Thesis Tribunal  
**Organising entity:** Pablo de Olavide University  
**End date:** 2020



- 3 Description of the activity:** Accreditation of Assistant Professor Doctor  
**Organising entity:** Spanish National Agency for Quality Assessment and Accreditation (ANECA)  
**End date:** 2018

## Scientific and technological experience

### Scientific or technological activities

#### R&D projects funded through competitive calls of public or private entities

- 1 Name of the project:** The role of sexual selection, population subdivision, and parent-offspring transmission of altered environments, in population persistence in a changing world  
**Name principal investigator (PI, Co-PI....):** Paco Garcia-Gonzalez  
**Funding entity or bodies:**  
Spanish Ministry of Science and Innovation  
**Start-End date:** 01/2020 - 12/2024  
**Total amount:** 171.000 €
- 2 Name of the project:** Implementation of an innovative surveillance system for invasive mosquitoes based on citizen science in Hungary with implications for research and practice  
**City of entity:** Hungary  
**Name principal investigator (PI, Co-PI....):** László Zsolt Garamszegi; David Canal; István Csabai; Károly Erdélyi; Ferenc Jordán; Norbert Solymosi; Kornélia Kurucz; Zoltán Soltész  
**Funding entity or bodies:**  
Hungarian Academy of Sciences  
**Start-End date:** 11/2020 - 11/2024  
**Total amount:** 133.000 €
- 3 Name of the project:** Eco-evolutionary dynamics of secondary sexual traits in wild bird populations under changing environmental conditions (SexEcoEvo)  
**Name principal investigator (PI, Co-PI....):** Jesús Martínez-Padilla  
**Funding entity or bodies:**  
Spanish Ministry of Science and Innovation  
**Start-End date:** 01/2020 - 12/2023  
**Total amount:** 125.000 €
- 4 Name of the project:** Function and regulation of the tegumentary coloration in Chimango Caracaras  
**Name principal investigator (PI, Co-PI....):** David Canal  
**Funding entity or bodies:**  
National Research Agency of Argentina  
**Start-End date:** 01/2020 - 12/2022  
**Total amount:** 15.000 €
- 5 Name of the project:** Plastic and genetic responses of a wild bird population to recent environmental changes  
**Name principal investigator (PI, Co-PI....):** David Canal

**Funding entity or bodies:**

Hungarian Academy of Sciences

**Start-End date:** 10/2019 - 10/2022**Total amount:** 95.000 €**6 Name of the project:** Evolutionary ecology of seed beetle (*Callosobruchus maculatus*)**City of entity:** Hungary**Name principal investigator (PI, Co-PI....):** David Canal; Renata Kopena**Funding entity or bodies:**

Hungarian Academy of Sciences

**Start-End date:** 09/2021 - 09/2022**Total amount:** 6.000 €**7 Name of the project:** The evolutionary ecology of phenotypic plasticity of morphological, life history and behavioural traits in wild birds**Name principal investigator (PI, Co-PI....):** Laszlo Garamszegi**Funding entity or bodies:**

MINISTERIO DE EDUCACION Y CIENCIA

**City funding entity:** Spain**Start-End date:** 01/2016 - 12/2018**Total amount:** 225.302 €**8 Name of the project:** Determinants of variation in host-parasite interactions**Name principal investigator (PI, Co-PI....):** Francisco Valera Hernández**Funding entity or bodies:**

MINISTERIO DE EDUCACION Y CIENCIA

**City funding entity:** Spain**Start-End date:** 01/2015 - 12/2018**Total amount:** 100.000 €**9 Name of the project:** The role of phenotypic signals and genetic quality in male-male competition in birds**Name principal investigator (PI, Co-PI....):** Magdalena Zagalska-Neubauer**Funding entity or bodies:**

National Science Center (Poland)

**City funding entity:** Poland**Start-End date:** 01/2014 - 12/2017**Total amount:** 73.000 €**10 Name of the project:** RECUPERA 2020: Comprehensive monitoring of the rural environment**Name principal investigator (PI, Co-PI....):** Miguel Ferrer Baena**Funding entity or bodies:**

Ministerio de Educación y Ciencia

**Start-End date:** 12/2013 - 12/2015**Total amount:** 750.000 €**11 Name of the project:** Communication costs and evolution of begging signals in offspring: study of three model species of passerines**Name principal investigator (PI, Co-PI....):** Jaime Potti Sanchez

**Funding entity or bodies:**  
MINISTERIO DE EDUCACION Y CIENCIA  
**City funding entity:** Spain

**Start-End date:** 01/2011 - 12/2014

**12 Name of the project:** The signalling of good genes, good skills and personality: bird coloration and song as models

**Name principal investigator (PI, Co-PI....):** J.C Senar Jordá

**Funding entity or bodies:**  
MINISTERIO DE EDUCACIÓN Y CIENCIA – Plan Nacional de Investigación

**Start-End date:** 07/2009 - 12/2012

**Total amount:** 200.000 €

**13 Name of the project:** Tracking historical genetic diversity changes in the pied flycatcher (*Ficedula hypoleuca*) using biological archives

**Name principal investigator (PI, Co-PI....):** Kerstin Kuhn

**Funding entity or bodies:**  
Hesse's Ministry of Higher Education, Research, and the Arts

**City funding entity:** Germany

**Start-End date:** 01/2008 - 12/2011

**14 Name of the project:** Genetic and conservation of the endangered crowned eagle (*Buteogallus coronatus*) in Argentina

**Name principal investigator (PI, Co-PI....):** J.J Negro Balmaseda; J.H. Sarasola

**Funding entity or bodies:**  
Agencia Española de Cooperación internacional para el Desarrollo (AECID)

**Start-End date:** 01/2010 - 01/2011

**Total amount:** 29.400 €

**15 Name of the project:** Mechanisms, function and evolution of plumage coloration

**Name principal investigator (PI, Co-PI....):** J.C. Senar Jordá

**Funding entity or bodies:**  
Ministerio de Educación y Ciencia - Plan Nacional de Investigación

**Start-End date:** 07/2006 - 07/2009

**Total amount:** 90.000 €

**16 Name of the project:** Genetic variation and fitness in a natural population of Pied Flycatcher (*Ficedula hypoleuca*)

**Name principal investigator (PI, Co-PI....):** Jaime Potti

**Funding entity or bodies:**  
Consejería de Educación y Ciencia de la Junta de Comunidades de Castilla-La Mancha

**City funding entity:** Spain

**Start-End date:** 06/2005 - 06/2008

**Total amount:** 72.000 €



## Results

### Industrial and intellectual property

- 1 Title registered industrial property:** Software for the automatic animal detection and counting using aerial photos collected by UAS  
**Inventors/authors/obtainers:** Miguel Ferrer Baena; David Canal Piña; Manuela de Lucas Castellanos; Marco Antonio Escalera Castro; Francisco Alarcon Romero; Antidio Viguria Jiménez  
**Nº of application:** acta deposito: 2670; folios: CQ2258347-50  
**Country of inscription:** Spain, Community of Madrid  
**Date of register:** 20/11/2015
- 2 Title registered industrial property:** Software for the automatic detection, location and characterization of pylons according to their risk for birds  
**Inventors/authors/obtainers:** Miguel Ferrer Baena; David Canal Piña; Manuela de Lucas Castellanos; Marco Antonio Escalera Castro; Francisco Alarcon Romero; Antidio Viguria Jiménez  
**Nº of application:** acta deposito: 2671; folios: CQ2258339-42  
**Country of inscription:** Spain, Community of Madrid  
**Date of register:** 20/11/2015

## Scientific and technological activities

### Scientific production

#### Publications, scientific and technical documents

- 1** D Canal; LZ Garamszegi; E Exposito; F Garcia-Gonzalez. Experimental evolution reveals differential evolutionary trajectories in male and female activity levels in response to sexual selection and metapopulation structure. *Evolution*. IN PRESS. 2022.  
**Type of production:** Scientific paper  
**Corresponding author:** Yes
- 2** L Garamszegi; S Santoro; P Fernández-Díaz; D Canal; C Camacho; L Garamszegi; J Martínez-Padilla; J Potti. High frequency of social polygyny reveals little costs for females in a songbird. *Scientific Reports*. 12 - 277, pp. 12, 277 (2022). <https://doi.org/10.1038/s41598-021.2022>. 2022.  
**Type of production:** Scientific paper      **Format:** Journal
- 3** D Canal; M Jablonszky; K Krenhardt; G Markó; G Nagy; E Szász; J Török; S Zsebők; LZ Garamszegi. Male and female identity and environmental contexts influence courtship behaviour in a songbird. *Animal Behaviour*. IN PRESS. 2022.  
**Type of production:** Scientific paper  
**Corresponding author:** Yes
- 4** J. Ignacio Morales; J Martinez-Padilla; C Camacho; J Potti; D Canal. Phenotypic selection on an ornamental trait is not modulated by breeding density in a pied flycatcher population. *Journal of Evolutionary Biology*. In PRESS. 2022.

**Type of production:** Scientific paper  
**Corresponding author:** Yes

- 5 L Garamszegi; D Canal; P Garcia-Gonzalez. Experimental manipulation of the pace-of-life syndromes: enforced trade-off between current and future reproduction affects behavior. *Scientific Reports*. 11, pp. 4442. 2021.

**Type of production:** Scientific paper  
**Format:** Journal  
**Corresponding author:** Yes

- 6 J Vaillant; C Camacho; D Canal; J Martínez-Padilla; J Potti. Fluctuating selection driven by global and local climatic conditions leads to stasis in breeding time in a migratory bird. *Journal of Evolutionary Biology*. 34 - 10, pp. 10.1111/jeb.13916. 2021.

**Type of production:** Scientific paper  
**Format:** Journal  
**Corresponding author:** No

- 7 J Le Vaillant; J Potti; C Camacho; D Canal; J Martínez-Padilla. Low Repeatability of Breeding Events Reflects Flexibility in Reproductive Timing in the Pied Flycatcher *Ficedula hypoleuca* in Spain. *Ardeola*. 69, pp. 21 - 39. 2021.

**Type of production:** Scientific paper  
**Corresponding author:** No

- 8 D Canal; L Schlicht; S Santoro; C Camacho; Jesus Martínez-Padilla; J Potti. Phenology-mediated effects of phenotype on the probability of polygyny in the pied flycatcher and its fitness consequences. *BMC Ecology and Evolution*. 21 - 55, pp. 10.1186/s12862-021-01786-w.. 2021.

**Type of production:** Scientific paper  
**Format:** Journal  
**Corresponding author:** Yes

- 9 Potti, Jaime; Camacho, Carlos; Canal, David; Martinez-Padilla, Jesus. Three decades of crimes and misdemeanours in the nest box life of european pied flycatchers (*Ficedula hypoleuca*). *Ardeola*. 68, pp. 315 - 333. 2021.

**Type of production:** Scientific paper  
**Format:** Journal  
**Corresponding author:** No

- 10 Antica Culina; et al.. Connected data landscape, collaboration, and long-term ecological studies: the SPI-Birds data hub. *Journal of Animal Ecology*. 90, pp. 2147 - 2160. 2020.

**Type of production:** Scientific paper  
**Corresponding author:** No

- 11 D Canal; Lotte Schlicht; J Manzano; C Camacho; J Potti. Socio-ecological factors shape the opportunity for polygyny in a migratory songbird. *Behavioral Ecology*. 31, pp. 598 - 609. 2020.

**Type of production:** Scientific paper  
**Format:** Journal  
**Corresponding author:** Yes

- 12 J Garrido-Bautista; G Moreno-Rueda; A Baz; D Canal; C Camacho; B Cifrian; JL Nieves-Aldrey; M Carles-Tolrà; J Potti. Variation in parasitoidism of *Protocalliphora azurea* (Diptera: Calliphoridae) by *Nasonia vitripennis* (Hymenoptera: Pteromalidae) in Spain. *Parasitology Research*. 119, pp. 559 - 566. 2020.

**Type of production:** Scientific paper  
**Format:** Journal

- 13 D Canal; C Camacho; B Martín; M de Lucas; M Ferrer. Fine-scale determinants of vertebrate roadkills: implications for mitigation measures. *Biodiversity and Conservation*. in press, 2019.

**Type of production:** Scientific paper  
**Format:** Journal





- 14** D López-Idiáquez; D Canal; I Calleja; A Padre; JH Sarasola. First record of shrimp consumption by the chimango caracara (*Milvago chimango*). *Journal of Raptor Research*. 53, pp. 12710 - 12726. 2019.  
**Type of production:** Scientific paper **Format:** Journal
- 15** M Päckert; A Bekacem; W Wolfgramm; O Gast; D Canal; G Giacalone; M Lo Valvo; M Vamberger; M Wink; M Stuckas. Genetic admixture despite ecological segregation in a North African sparrow hybrid zone (*Aves*, *Passeriformes*, *Passer domesticus* × *Passer hispaniolensis*). *Ecology and Evolution*. 9, pp. 12710 - 12726. 2019.  
**Type of production:** Scientific paper **Format:** Journal
- 16** Camacho, Carlos; Martinez-Padilla, Jesus; Canal, David; Potti, Jaime. Long-term Dynamics of Phenotype-Dependent Dispersal within a Spatially Structured Bird Population. *Behavioral Ecology*. ary195. doi.org/10.1, 2019.  
**Type of production:** Scientific paper **Format:** Journal
- 17** D Canal; B Martín; M de Lucas; M Ferrer. Dogs are the main species involved in animal-vehicle collisions in southern Spain: Daily, seasonal and spatial analyses of collisions. *Plos One*. 13 - 9, pp. e0203693. 2018.  
**Type of production:** Scientific paper **Format:** Journal
- 18** Potti, Jaime; Camacho, Carlos; Canal, David; Martinez-Padilla, Jesus. Long-term nest box occupancy as a measure of territory quality in the pied flycatcher. *Journal of Field Ornithology*. 89, pp. 337 - 347. 2018.  
**Type of production:** Scientific paper **Format:** Journal
- 19** Zsolt Garamszegi, Laszlo; Zagalska-Neubauer, Magdalena; Canal, David; Blázi, György; Laczi, Miklós; Nagy, Gergely; Szöllösi, Eszter; Vaskuti, Éva; Török, Janos; Zsebok, Sandor. MHC-mediated sexual selection on bird song: generic polymorphism, particular alleles and acoustic signals. *MOLECULAR ECOLOGY*. 27, pp. 2620 - 2633. 2018.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 2
- 20** D Canal; C Camacho; B Martín; M de Lucas; M Ferrer. Magnitude, composition and spatiotemporal patterns of vertebrate roadkills in a biodiversity hotspot. *ANIMAL BIODIVERSITY AND CONSERVATION*. 42 - 2, 2018.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 2
- 21** Camacho, Carlos; Canal, David; Potti, Jaime. Lifelong effects of trapping experience lead to age-biased sampling: Lessons from a wild bird population. *ANIMAL BEHAVIOUR*. 130, pp. 133 - 139. 2017.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 8
- 22** Camacho, Carlos; Perez-Rodriguez, Lorenzo; Abril-Colón, Inmaculada; Canal, David; Potti, Jaime. Plumage colour predicts dispersal propensity in male pied flycatchers. *BEHAVIORAL ECOLOGY AND SOCIOBIOLOGY*. 72 - 2, 2017.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 2
- 23** D Canal; V Morandini; B Martín; T Langgemach; R Muriel; M de Lucas; M Ferrer. Productivity is related to nest site protection and nesting substrate in a German Osprey population. *JOURNAL OF ORNITHOLOGY*. 159 - 1, 2017.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 2



- 24** Canal, David; Mulero-Pazmany, Margarita; Jose Negro, Juan; Sergio, Fabrizio. Decoration Increases the Conspicuousness of Raptor Nests. PLOS ONE. 11 - 7, 2016.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 6
- 25** Camacho, Carlos; Canal, David; Potti, Jaime. Natal habitat imprinting counteracts the diversifying effects of phenotype-dependent dispersal in a spatially structured population. BMC EVOLUTIONARY BIOLOGY. 16, 2016.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 6
- 26** Moreno-Rueda, Gregorio; Redondo, Tomas; Ochoa, David; Camacho, Carlos; Canal, David; Potti, Jaime. Nest-dwelling ectoparasites reduce begging effort in Pied Flycatcher *Ficedula hypoleuca* nestlings. IBIS. 158 - 4, pp. 881 - 886. 2016.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 3
- 27** Belkacem, Abdelkrim Ait; Gast, Oliver; Stuckas, Heiko; Canal, David; LoValvo, Mario; Giacalone, Gabriele; Paeckert, Martin. North African hybrid sparrows (*Passer domesticus*, *P. hispaniolensis*) back from oblivion - ecological segregation and asymmetric mitochondrial introgression between parental species. ECOLOGY AND EVOLUTION. 6 - 15, pp. 5190 - 5206. 2016.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 7
- 28** D Canal; S Roques; JJ Negro; JH Sarasola. Population genetics of the endangered Crowned Solitary Eagle (*Buteogallus coronatus*) in South America. CONSERVATION GENETICS. doi:10.1007/s10592-0, 2016.  
**Type of production:** Scientific paper **Citations:** 3  
**Source of citations:** SCOPUS
- 29** Zsolt Garamszegi, Laszló; Zagalska-Neubauer, Magdalena; Canal, David; Markó, Gábor; Szász, Eszter; Zsebok, Sandor; Szöllösi, Eszter; Herczeg, Gábor; Török, János. Malaria parasites, immune challenge, MHC variability, and predator avoidance in a passerine bird. BEHAVIORAL ECOLOGY. 26 - 5, pp. 1292 - 1302. 2015.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 12
- 30** Camacho, Carlos; Canal, David; Potti, Jaime. Testing the matching habitat choice hypothesis in nature: phenotype-environment correlation and fitness in a songbird population. EVOLUTIONARY ECOLOGY. 29 - 6, pp. 873 - 886. 2015.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 19
- 31** Canal, David; Serrano, David; Potti, Jaime. Exploring Heterozygosity-Survival Correlations in a Wild Songbird Population: Contrasting Effects between Juvenile and Adult Stages. PLOS ONE. 9 - 8, 2014.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 9
- 32** Potti, Jaime; Canal, David; Camacho, Carlos. Ontogenetic variation in the plumage colour of female European Pied Flycatchers *Ficedula hypoleuca*. IBIS. 156 - 4, pp. 879 - 884. 2014.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 5



- 33** Kuhn, Kerstin; Schwenk, Klaus; Both, Christiaan; Canal, David; Johansson, Ulf S.; van der Mije, Steven; Toepfer, Till; Paeckert, Martin. Differentiation in neutral genes and a candidate gene in the pied flycatcher: using biological archives to track global climate change. *ECOLOGY AND EVOLUTION*. 3 - 14, pp. 4799 - 4814. 2013.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 15
- 34** Potti, J.; Canal, D.; Serrano, D.. Lifetime fitness and age-related female ornament signalling: evidence for survival and fecundity selection in the pied flycatcher. *JOURNAL OF EVOLUTIONARY BIOLOGY*. 26 - 7, pp. 1445 - 1457. 2013.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 35
- 35** Camacho, Carlos; Canal, David; Potti, Jaime. Nonrandom dispersal drives phenotypic divergence within a bird population. *ECOLOGY AND EVOLUTION*. 3 - 14, pp. 4841 - 4848. 2013.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 19
- 36** Canal, David; Jovani, Roger; Potti, Jaime. Male decisions or female accessibility? Spatiotemporal patterns of extra pair paternity in a songbird. *BEHAVIORAL ECOLOGY*. 23 - 5, pp. 1146 - 1153. 2012.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 40
- 37** Canal, David; Jovani, Roger; Potti, Jaime. Multiple mating opportunities boost protandry in a pied flycatcher population. *BEHAVIORAL ECOLOGY AND SOCIOBIOLOGY*. 66 - 1, pp. 67 - 76. 2012.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 34
- 38** Andris, Malvina; Arias, M C; Barthel, Brandon L; Bluhm, Burton H; Bried, Joel; Canal, D; Chen, X M; Cheng, P; Chiappero, Marina B; Coelho, Manuela M; Collins, Angela B; Dash, M; Davis, Michelle C; Duarte, Margarida; Dubois, Marie-Pierre; Francoso, E; Galmes, M A; Gopal, Keshni; Jarne, Philippe; Kalbe, Martin; Karczmarski, Leszek; Kim, Hun; Martella, Monica B; McBride, Richard S; Negri, Valeria; Negro, J J; Newell, Annakay D; Piedade, Ana F; Puchulutegui, Cecilia; Raggi, Lorenzo; Samonte, Irene E; Sarasola, J H; See, D R; Seyoum, Seifu; Silva, Monica C; Solaro, C; Tolley, Krystal A; Tringali, Michael D; Vasemagi, A; Xu, L S; Zanon-Martinez, J I. Permanent genetic resources added to Molecular Ecology Resources Database 1 February 2012 - 31 March 2012. *MOLECULAR ECOLOGY RESOURCES*. 12 - 4, pp. 779 - 81. Molecular Ecology Resources Primer Development Consortium, 2012.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 11
- 39** Potti, J.; Canal, D.. Heritability and genetic correlation between the sexes in a songbird sexual ornament. *HEREDITY*. 106 - 6, pp. 945 - 954. 2011.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 47
- 40** Canal, David; Potti, Jaime; Davila, Jose A.. Male phenotype predicts extra-pair paternity in pied flycatchers. *BEHAVIOUR*. 148 - 5-6, pp. 691 - 712. 2011. ISSN 0005-7959  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 27



- 41** Canal, David; Alcaide, Miguel; Anmarkrud, Jarl A.; Potti, Jaime. Towards the simplification of MHC typing protocols: targeting classical MHC class II genes in a passerine, the pied flycatcher *Ficedula hypoleuca*. BMC RESEARCH NOTES. 3, pp. 11pp - 11pp. 2010.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 21
- 42** Abercrombie, L. G.; Anderson, C. M.; Baldwin, B. G.; Bang, I. C.; Beldade, R.; Bernardi, G.; Boubou, A.; Branca, A.; Bretagnolle, F.; Bruford, M. W.; Buonamici, A.; Burnett, R. K., Jr.; Canal, D.; Cardenas, H.; Caultet, C.; Chen, S. Y.; Chun, Y. J.; Cossu, C.; Crane, C. F.; Cros-Arteil, S.; Cudney-Bueno, R.; Danti, R.; Davila, J. A.; Della Rocca, G.; Dobata, S.; Dunkle, L. D.; Dupas, S.; Faure, N.; Ferrero, M. E.; Fumanal, B.; Gigot, G.; Gonzalez, I.; Goodwin, S. B.; Groth, D.; Hardesty, B. D.; Hasegawa, E.; Hoffman, E. A.; Hou, M. L.; Jamsari, A. F. J.; Ji, H. J.; Johnson, D. H.; Joseph, L.; Justy, F.; Kang, E. J.; Kaufmann, B.; Kim, K. S.; Kim, W. J.; Koehler, A. V.; Laitung, B.; Latch, P.; Liu, Y. D.; Manjerovic, M. B.; Martel, E.; Metcalfe, S. S.; Miller, J. N.; Midgley, J. J.; Migeon, A.; Moore, A. J.; Moore, W. L.; Morris, V. R. F.; Navajas, M.; Navia, D.; Neel, M. C.; de Nova, P. J. G.; Olivieri, I.; Omura, T.; Othman, A. S.; Oudot-Canaff, J.; Panthee, D. R.; Parkinson, C. L.; Patimah, I.; Perez-Galindo, C. A.; Pettengill, J. B.; Pfautsch, S.; Piola, F.; Potti, J.; Poulin, R.; Raimondi, P. T.; Rinehart, T. A.; Ruzainah, A.; Sarver, S. K.; Scheffler, B. E.; Schneider, A. R. R.; Silvain, J. F.; Azizah, M. N. Siti; Springer, Y. P.; Stewart, C. N.; Sun, W.; Tiedemann, R.; Tsuji, K.; Trigiano, R. N.; Vendramin, G. G.; Wadl, P. A.; Wang, L.; Wang, X.; Watanabe, K.; Waterman, J. M.; Weisser, W. W.; Westcott, D. A.; Wiesner, K. R.; Xu, X. F.; Yaegashi, S.; Yuan, J. S.. Permanent Genetic Resources added to Molecular Ecology Resources database 1 January 2009-30 April 2009. MOLECULAR ECOLOGY RESOURCES. 9 - 5, pp. 1375 - 1379. Mol Ecology Resources Primer Dev, 2009.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 43
- 43** Potti, Jaime; Blanco, Guillermo; Lemus, Jesus A.; Canal, David. Infectious Offspring: How Birds Acquire and Transmit an Avian Polyomavirus in the Wild. PLOS ONE. 2 - 12, 2007.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 24
- 44** Edvardsson, M; Canal, D. The effects of copulation duration in the bruchid beetle *Callosobruchus maculatus*. BEHAVIORAL ECOLOGY. 17 - 3, pp. 430 - 434. 2006.  
**Type of production:** Scientific paper **Format:** Journal  
**Source of citations:** SCOPUS **Citations:** 69
- 45** M Jablonszky; LS Garamszegi; S Zsebők; E Szász; B Rosivall; G Nagy; G Markó; O Lao; M Laczi; K Krenhardt; G Hegyi; D Canal. Individual differences in song plasticity in response to the order of songs and singing position. SUBMITTED.  
**Type of production:** Scientific paper  
**Corresponding author:** No
- 46** Camacho, Carlos; Canal, David; Martinez-Padilla, Jesus; Potti, Jaime. Natal experience, genetic background, and selection for philopatry in birds. SUBMITTED.  
**Type of production:** Scientific paper **Format:** Journal
- 47** S JG Vriend; et al.. Spring temperature synchronizes temporal variation in laying dates across European hole-nesting passerines. SUBMITTED.  
**Type of production:** Scientific paper  
**Corresponding author:** No



- 48** Potti, Jaime; Blanco, Guillermo; Lemus, Jesus A.; Canal, David; Baz, Arturo. [Birds, vector parasites and viruses: a new viral transmission route in wild birds.]. *Etologia*. 21, pp. 41 - 52. 2008. ISSN 1135-6588  
**Type of production:** Popular science article **Format:** Journal
- 49** D Canal; JJ Negro. Use of drones for research and conservation of birds of prey. *Birds of prey: biology and conservation in the XXI century*. In press, Springer, 2018.  
**Type of production:** Book chapter **Format:** Book
- 50** R Diaz; M Mañez; A Martinez; D Canal; M Ferrer; D Aragones. Using UAVs to map the nests of aquatic birds. *The Roles of Remote Sensing in Nature Conservation: A Practical Guide and Case Studies*. In press, Springer, 2017. ISBN 978-3-319-64330-4  
**Type of production:** Book chapter **Format:** Book  
**Source of citations:** SCOPUS **Citations:** 5

### Works submitted to national or international conferences

- 1** **Title of the work:** Additive genetic variance in the song of the collared flycatcher  
**Name of the conference:** Hungarian Ethologists' Association Conference (MET-2021)  
**Type of participation:** Participatory - oral communication  
**City of event:** Virtual,  
**Date of event:** 26/11/2021  
J Jablonszky; D Canal; H Gergely; L Miklós; M Gábor; N Gergely; B Rosivall; E Szász; J Török; S Zsebők; LS Garamszegi.
- 2** **Title of the work:** Within- and between-individual variations in the courtship behaviour of a songbird  
**Name of the conference:** Hungarian Ethologists' Association Conference (MET-2021)  
**Type of participation:** Participatory - oral communication  
**City of event:** Virtual,  
**Date of event:** 26/11/2021  
D Canal; J Jablonszky; K Krenhardt; G Markó; G Nagy; E Szász; J Török; S Zsebők; LS Garamszegi.
- 3** **Title of the work:** Male and female identity and environmental contexts influence courtship intensity in a songbird  
**Name of the conference:** The evolution of personality in animals and humans Workshop  
**Type of participation:** Participatory - oral communication  
**City of event:** Erice, Italy  
**Date of event:** 09/09/2021  
D Canal; J Jablonszky; K Krenhardt; G Markó; G Nagy; E Szász; J Török; S Zsebők; LS Garamszegi.
- 4** **Title of the work:** Phenology-mediated effects of phenotype on the probability of social polygyny in a migratory passerine  
**Name of the conference:** Association for the Study of Animal Behaviour (ASAB) summer conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Virtual,  
**Date of event:** 23/08/2021  
D Canal; L Schlicht; C Camacho; J Martinez-Padilla; J Potti.
- 5** **Title of the work:** Socio-ecological factors shape the opportunity for polygyny in a migratory songbird. Oral presentation  
**Name of the conference:** 139th annual meeting of the American Ornithological Society (AOS)

**Type of participation:** Participatory - oral communication

**City of event:** Virtual,

**Date of event:** 09/08/2021

D Canal; L Schlicht; M Manzano; C Camacho; J Martinez-Padilla; J Potti.

- 6** **Title of the work:** Experimentally constrained early reproduction shapes life history trajectories and behavior”

**Name of the conference:** Third conference of the Netherlands Society for Evolutionary Biology (NLSEB2021)

**Type of participation:** Participatory - oral communication

**City of event:** Virtual,

**Date of event:** 14/07/2021

D Canal; F Garcia-Gonzalez; LS Garamszegi.

- 7** **Title of the work:** Heritability of song in the collared flycatcher.

**Name of the conference:** Hungarian Ethologists' Association Conference (MET-2020)

**Type of participation:** 'Participatory - poster

**City of event:** Virtual,

**Date of event:** 04/12/2020

J Jablonszky; D Canal; H Gergely; L Miklós; M Gábor; N Gergely; B Rosivall; E Szász; J Török; S Zsebők; LS Garamszegi.

- 8** **Title of the work:** Socio-ecological factors shape the opportunity for polygyny in a migratory songbird. Oral presentation

**Name of the conference:** Hungarian Ethologists' Association Conference (MET-2020)

**Type of participation:** Participatory - oral communication

**City of event:** Virtual,

**Date of event:** 04/12/2020

D Canal; L Schlicht; M Manzano; C Camacho; J Potti.

- 9** **Title of the work:** Evolvability of phenotypic plasticity under environmental variation in a population of pied flycatchers, *Ficedula hypoleuca*

**Name of the conference:** VII Congreso Ibérico y XXIV Español de Ornitología

**Type of participation:** Participatory - oral communication

**City of event:** Cadiz, Spain

**Date of event:** 13/11/2019

J Le Vaillant; C Camacho; D Canal; J Potti; J Martinez-Padilla.

- 10** **Title of the work:** Variation in parasitoidism of the fly *Protocalliphora azurea* by the parasitoid wasp *Nasonia vitripennis*

**Name of the conference:** IV Congress of Biodiversity and Nature Conservation

**Type of participation:** Participatory - oral communication

**City of event:** Cadiz, Spain

**Date of event:** 19/09/2019

C Camacho; J Garrido-Bautista; G Moreno-Rueda; A Baz; D Canal; C Camacho; B Cifrián; JL Nieves-Aldrey; M Carles-Tolrá; J Potti.

- 11** **Title of the work:** Plasticity in evolutionary potential under environmental variation in a population of pied flycatchers, *Ficedula hypoleuca*

**Name of the conference:** The 2019 Congress of the European Society for Evolutionary Biology (ESEB)

**Type of participation:** Participatory - oral communication

**City of event:** Turku, Finland

**Date of event:** 19/08/2019

J Le Vaillant; J Potti; C Camacho; D Canal; J Martínez-Padilla.

- 12 Title of the work:** Survival costs and future reproductive output in the facultatively polygynous pied flycatcher  
**Name of the conference:** International Congress of the Spanish Society of Ethology and Evolutionary Ecology  
**Type of participation:** Participatory - oral communication  
**City of event:** Mieres, Spain  
**Date of event:** 30/10/2018  
P Fernández Díaz; S Santoro; D Canal; C Camacho; J Potti.
- 13 Title of the work:** Differential dispersal shapes the evolutionary dynamics of body size in a wild bird population  
**Name of the conference:** International Congress of the Spanish Society of Ethology and Evolutionary Ecology  
**Type of participation:** Participatory - oral communication  
**City of event:** Mieres, Spain  
**Date of event:** 30/10/2018  
C Camacho; J Martínez-Padilla; D Canal; J Potti.
- 14 Title of the work:** Mate choice, sex allocation and their interplay in a polygynous bird species  
**Name of the conference:** International Congress of the Spanish Society of Ethology and Evolutionary Ecology  
**Type of participation:** Participatory - oral communication  
**City of event:** Mieres, Spain  
**Date of event:** 30/10/2018  
S Simone; M Losada; D Canal; C Camacho; J Potti.
- 15 Title of the work:** Evolutionary dynamics in wild birds: from single populations to multiple species  
**Name of the conference:** 18th International Hole-Nesting Birds Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Trondheim, Norway  
**Date of event:** 30/10/2017  
J Martínez-Padilla; C Camacho; A Estrada; F Garcia-Gonzalez; D Canal; R Early; V Jennings; J Le Vaillant; J Potti.
- 16 Title of the work:** ¿Existe preferencia del macho en la elección de pareja en el paseriforme *Ficedula albicollis*?  
**Name of the conference:** II Congress of Biodiversity and Nature Conservation  
**Type of participation:** Participatory - oral communication  
**City of event:** Almeria, Spain  
**Date of event:** 27/09/2017  
R Garcia; D Canal; LS Garamszegi.
- 17 Title of the work:** Evolutionary consequences of nonrandom dispersal in a spatially structured population  
**Name of the conference:** BOU 2017 Annual Conference: From avian tracking to population processes.  
**Type of participation:** Participatory - oral communication  
**City of event:** University of Warwick, United Kingdom  
**Date of event:** 28/03/2017  
C Camacho; D Canal; J Potti.



- 18** **Title of the work:** Natal dispersion depends on the plumage colour in the pied flycatcher (*Ficedula hypoleuca*)  
**Name of the conference:** International Congress of the Spanish Society of Ethology and Evolutionary Ecology  
**Type of participation:** Participatory - oral communication  
**City of event:** Granada, Spain  
**Date of event:** 20/09/2016  
I Abril-Colón; C Camacho; L Pérez-Rodríguez; D Canal; J Potti.
- 19** **Title of the work:** Nonrandom dispersal: causes and consequences for population divergence  
**Name of the conference:** International Congress of the Spanish Society of Ethology and Evolutionary Ecology  
**Type of participation:** Participatory - oral communication  
**City of event:** Granada, Spain  
**Date of event:** 20/09/2016  
C Camacho; D Canal; J Potti.
- 20** **Title of the work:** Using molecular techniques to analyse the reproductive strategy and spatial ecology of the crowned eagle (*Buteogallus coronatus*)  
**Name of the conference:** XVI Argentinian Congress of Ornithology  
**Type of participation:** Participatory - oral communication  
**City of event:** La Plata, Argentina  
**Date of event:** 15/09/2015  
JH Sarasola; D Canal; M Galmes; JJ Negro.
- 21** **Title of the work:** Nonrandom dispersal and evolutionary divergence: insights from a wild bird population  
**Name of the conference:** XI 'Ecology and Behaviour' Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Toulouse, France  
**Date of event:** 17/05/2015  
Carlos Camacho; David Canal; Jaime Potti.
- 22** **Title of the work:** Patterns and fitness consequences of polygamy in the pied flycatcher  
**Name of the conference:** XXII Spanish Congress of ornithology  
**Type of participation:** Participatory - oral communication  
**City of event:** Madrid, Spain  
**Date of event:** 06/12/2014  
Javier Baraza; David Canal; Carlos Camacho; Jaime Potti.
- 23** **Title of the work:** Evolución de las señales de sollicitación en las crías: el coste de la petición afecta a la eficacia biológica en el papamoscas cerrojillo (*Ficedula hypoleuca*)  
**Name of the conference:** XV Congreso Nacional y XII Iberoamericano de Etología  
**Type of participation:** Participatory - oral communication  
**City of event:** Barcelona, Catalonia, Spain  
**Date of event:** 03/09/2014  
**End date:** 05/09/2014  
David Ochoa; Tomás Redondo; Gregorio Moreno-Rueda; Carlos Marfil-Daza; Carlos Camacho; David Canal; Gerardo Jimenez; Jaime Potti.





- 24** **Title of the work:** Los pollos de papamoscas cerrojillo (*Ficedula hypoleuca*) reducen el nivel de sollicitación en respuesta a la parasitación por el ácaro hematófago *Dermanyssus gallinoides*  
**Name of the conference:** XV Congreso Nacional y XII Iberoamericano de Etología  
**Type of participation:** Participatory - oral communication  
**City of event:** Barcelona, Catalonia, Spain  
**Date of event:** 03/09/2014  
**End date:** 05/09/2014  
Gregorio Moreno-Rueda; Tomás Redondo; David Ochoa; Carlos Camacho; David Canal; Carlos Marfil-Daza; Jaime Potti.
- 25** **Title of the work:** Population genetic of the endangered crowned eagle (*Harpyhaliaetus coronatus*) in Argentina  
**Name of the conference:** XV Argentinian Congress of ornithology  
**Type of participation:** 'Participatory - poster  
**City of event:** La Pampa, Argentina  
**Date of event:** 20/09/2013  
David Canal; Severine Roques; JH Sarasola; Juan Jose Negro.
- 26** **Title of the work:** Plastic adjustment to short-scale environmental changes: influence of mean lifetime phenology on response intensity. Poster. International Congress  
**Name of the conference:** International Congress "Adapting to Global Change in the Mediterranean Hotspot  
**Type of participation:** 'Participatory - poster  
**City of event:** Seville, Spain  
**Date of event:** 15/09/2013  
Carlos Camacho; David Canal; Jaime Potti.
- 27** **Title of the work:** Asymmetric dispersion may generate evolutionary scenarios at small scale. Oral presentation  
**Name of the conference:** XXI Spanish and V Iberian Ornithological Congress  
**Type of participation:** Participatory - oral communication  
**City of event:** Vitoria, Spain  
**Date of event:** 15/12/2012  
Carlos Camacho; David Canal; Jaime Potti.
- 28** **Title of the work:** Male decisions or female availability?. Spatiotemporal patterns of extra pair paternity in a songbird  
**Name of the conference:** XIV Congreso Nacional y XI Iberoamericano de Etología  
**Type of participation:** Participatory - oral communication  
**City of event:** Sevilla, Spain  
**Date of event:** 15/09/2012  
David Canal; Roger Jovani; Jaime Potti.
- 29** **Title of the work:** Multiple mating opportunities boost protandry in a pied flycatcher population  
**Name of the conference:** 4th International Eurasian Ornithology Congress  
**Type of participation:** Participatory - oral communication  
**City of event:** Baja, Hungary  
**Date of event:** 12/04/2012  
**End date:** 15/04/2012  
D Canal; R Jovani; J Potti.



- 30 Title of the work:** Evidence for a link between extra pair fertilizations and choice of good genes in pied flycatchers  
**Name of the conference:** Segundo Congreso de la Sociedad Española de Biología Evolutiva  
**Type of participation:** 'Participatory - poster  
**City of event:** Valencia, Spain  
**Date of event:** 29/11/2009  
**End date:** 02/12/2009  
D Canal; J Potti.

## R&D management and participation in scientific committees

### Evaluation and revision of R&D projects and articles

- 1 Performed tasks:** Associate Editor  
**Entity where activity was carried out:** IBIS  
**Start date:** 2021
- 2 Performed tasks:** Associate Editor  
**Entity where activity was carried out:** Animal Biodiversity and Conservation  
**Start date:** 2020
- 3 Performed tasks:** Associate Editor  
**Entity where activity was carried out:** El Hornero  
**Start date:** 2020
- 4 Performed tasks:** Reviewer of R&D projects for the Spanish National Research Plan 2020  
**Entity where activity was carried out:** Ministry of Science and Innovation  
**Start date:** 2020
- 5 Performed tasks:** Reviewer of journal articles  
**Entity where activity was carried out:** Publons profile:  
<https://publons.com/author/1248465/david-canal#profile>  
**Start date:** 2006

## Other achievements

### Stays in public or private R&D centres

- 1 Entity:** Center for the Study and Conservation of Birds of Prey in Argentina (CECARA)  
**City of entity:** Santa Rosa, Argentina  
**Start-End date:** 05/11/2010 - 27/12/2010  
**Goals of the stay:** Guest  
**Provable tasks:** Field and lab work within a research project
- 2 Entity:** Institute for Game and Wildlife Research (IREC)  
**City of entity:** Ciudad Real, Spain  
**Start-End date:** 02/01/2007 - 19/04/2007  
**Goals of the stay:** Doctorate

**Provable tasks:** Lab work: genotyping of samples