

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, 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) while 5) the MTA-Premium fellowship (the most prestigious post-doc in Hungary), at the Centre for Ecological Research, boosted my work on the behavioural and genetic responses of individuals to environmental changes (Sci, Rep., Evolution) leading my own project. I have recently obtained a highly competitive grant of "Attraction of Research Talent (Community of Madrid) " to incorporate to MNCN-CSIC. 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 47 scientific articles (3 more under review) in SCI journals (average IF= 3.08), 38 of them in Q1, which have received 1016 citations (Google Scholar;h-Index = 19). In 23 of these publications, I was the first (19) or last (4) author. I have been PI in 4 out of the 17 (inter)national research projects I have participated in (all awarded in competitive calls). The project as PI summarises total funding of ca. 205.000 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 35 contributions to (inter)national conferences and published two book chapters and several articles for the general public. My work has received attention from media, including newspapers and radio interviews, in different countries (e.g., USA, Spain, Hungary) and has influenced wildlife policy and management decisions. I have supervised 15 (7 master and 7 Bachelor) students (2 more ongoing) and started to supervise a PhD student (2022). I regularly participate as a member of tribunal evaluating Master's theses (2019-2022), and since 2020, I have been an Honorary Collaborator at the University of Cordoba. I have reviewed R&D projects (Spanish National Research Plan and Polish Academy of Sciences) and >40 papers in SCI journals and I am an associated editor in 3 SCI journals (IBIS, Animal Biodiversity and Conservation, El Hornero).

Please, see my website 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: 47 (2 more under review)
Publications in 1º quartile (Q1): 38
Book chapters: 2
h-index= 19 (Google Scholar)
Citations: 1016 (Google Scholar)
Participation in research projects = 17 (4 of them as PI)
Participation in (inter)national congresses: 35
Intellectual Property registries = 2
Master students supervised = 7 (+1 ongoing)
Bachelor students supervised = 7 (+1 ongoing)
PhD students = 1 ongoing

David Canal Piña

Surname(s): **Canal Piña**
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ScopusID: **55669777300**
ResearcherID: **E-4401-2013**
Date of birth: **03/08/1980**
Gender: **Male**
Land line phone: **(+34) 620780341**
Email: **dav.canal.p@gmail.com**
Personal web page: **<https://www.davidcanalresearch.com/>**

Current professional situation

Employing entity: National Museum of Natural Sciences (MNCN-CSIC) **Type of entity:** State agency

Professional category: Postdoctoral fellowship

City employing entity: Community of Madrid, Spain

Phone: (+34) 91 411 13 28

Start date: 01/02/2023

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	Centre for Ecological Research - Hungary	Postdoctoral fellowship	15/10/2019
6	Doñana Biological Station-CSIC	Research contract	20/06/2011
7	Research Unit of Biodiversity (UMIB)	Research contract	26/09/2010
8	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:** Centre for Ecological Research - Hungary
Professional category: Postdoctoral fellowship
Start-End date: 15/10/2019 - 31/12/2012
- 6** **Employing entity:** Doñana Biological Station-CSIC
Professional category: Research contract
Start-End date: 20/06/2011 - 19/09/2012
Performed tasks: Scientific research
- 7** **Employing entity:** Research Unit of Biodiversity (UMIB)
Professional category: Research contract
Start-End date: 26/09/2010 - 31/12/2010
Performed tasks: Scientific research
- 8** **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:** Ecology II
Type of programme: Bachelor's degree
University degree: Degree in Biology (Environmental and Health Biology)
Start date: 04/2021 **End date:** 06/2022
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 15
Entity: University of Cordoba
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 **End date:** 30/06/2021
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 15
Entity: University of Cordoba
Faculty, institute or centre: Faculty of Sciences

3 **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

Experience supervising doctoral thesis and/or final year projects

1 **Project title:** Does variation in environmental conditions influence host-parasite interactions and host fitness?
Type of project: Master Student "Conservation, Management and Restoration of Biodiversity"
Co-director of thesis: Gregorio Moreno-Rueda
Entity: University of Granada, Spain
Student: Dmitrii Parshin
Obtained qualification: 7.2
Date of reading: 24/01/2023

2 **Project title:** Analysis of habitat selection by wild rabbits in intensive agricultural areas
Type of project: End of course project
Co-director of thesis: Carlos Rouco
Entity: University of Cordoba. Cordoba. Spain **Type of entity:** University
Student: Alba Cobos García
Obtained qualification: 8.4
Date of reading: 03/07/2022

3 **Project title:** Efectos de la infección por malaria aviar en la eficacia biológica del Papamoscas cerrojillo
Type of project: End of course project
Co-director of thesis: Carlos Rouco
Entity: University of Cordoba. Cordoba. Spain **Type of entity:** University
Student: Salvador Pardo López
Obtained qualification: 7.5
Date of reading: 03/07/2022

4 **Project title:** Trends in Iberian hare (*Lepus granatensis*) in Spain
Type of project: End of course project
Co-director of thesis: Carlos Rouco
Entity: University of Cordoba. Cordoba. Spain **Type of entity:** University
Student: Alicia Montávez Pérez
Obtained qualification: 8.5
Date of reading: 03/07/2022



- 5** **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: Simone Santoro
Entity: Pablo de Olavide University. Seville. Spain
Student: Antonio Lara Rodriguez
Obtained qualification: 8.5
Date of reading: 20/10/2021
- 6** **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
- 7** **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
- 8** **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
- 9** **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
- 10** **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



- 11** **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
- 12** **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
- 13** **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
- 14** **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
- 15** **Project title:** Effects of the presence and abundance of nest ectoparasites on the fitness of the pied flycatcher
Type of project: End of course project
Co-director of thesis: Carlos Rouco
Entity: University of Cordoba. Cordoba. Spain
Student: Cristina Jerez Gutiérrez
Type of entity: University
- 16** **Project title:** Social and extra-pair mating in relation to major histocompatibility complex (MHC) composition in pied flycatchers
Type of project: Master Student "Zology"
Co-director of thesis: Javier Perez-Tris
Entity: Complutense University, Spain
Student: Cristina Camacho
- 17** **Project title:** Comparative analysis of the ecology and behaviour of the chimango (*Milvago chimango*) in anthropised environments
Entity: Center for the Study and Conservation of Birds of Prey in Argentina (CECARA)
Student: Franco Fabre



Other activities/achievements not included above

- 1 Description of the activity:** Contracted Professor Doctor
Organising entity: Spanish National Agency for Quality Assessment and Accreditation (ANECA)
End date: 2022
- 2 Description of the activity:** Member of Master's Thesis Tribunal
Organising entity: Pablo de Olavide University
End date: 2021
- 3 Description of the activity:** Member of Master's Thesis Tribunal
Organising entity: Pablo de Olavide University
End date: 2020
- 4 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:** Climate change induces eco-evolutionary dynamics of integrated phenotypes
City of entity: Community of Madrid, Spain
Name principal investigator (PI, Co-PI....): David Canal
Funding entity or bodies:
Community of Madrid
Start-End date: 02/2023 - 02/2028
Total amount: 228.264 €
- 2 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 €
- 3 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 €

- 4 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 €

- 5 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 €

- 6 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 €

- 7 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 €

- 8 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 €

- 9 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 €

10 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 €

11 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 €

12 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

13 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 €

14 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

15 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 €

16 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 €

17 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 J Martínez-Padilla; C Camacho; D Canal; J Muriel; D López-Idiáquez; J Potti. Parasites during early life mediate the strength of phenotypic selection on sexual traits. *Ecoevorxiv*. 2023.
Type of production: Scientific paper **Format:** Journal
- 2 M Jablonszky; D Canal; G Hegyi; M Herényi; M Laczi; O Lao; G Markó; G Nagy; B Rosivall; E Szász; S Zsebők; LZ Garamszegi. Estimating heritability of song considering within-individual variation in a wild songbird: the collared flycatcher. *Frontiers in Ecology and Evolution*. pp. 12:e8883.. 2022.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 3 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*. doi.org/10.1111/evo., 2022.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 4 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>.
Type of production: Scientific paper **Format:** Journal
- 5 M Jablonszky; D Canal; H Gergely; K Krenhardt; M Laczi; G Markó; G Nagy; B Rosivall; E Szász; S Zsebők; LS Garamszegi. Individual differences in song plasticity in response to the order of songs and singing position. *Ecology and Evolution*. pp. 12:e8883. doi.org/10.1002/ece3.8883 . 2022.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 6 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*. 186, pp. 11e19. 2022.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 7 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*. 2022.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 8 S Vriend; et al.. Temperature synchronizes temporal variation in laying dates across European hole-nesting passerines. *Ecology*. doi.org/10.1002/ecy., 2022.
Type of production: Scientific paper **Format:** Journal



- 9** D Canal; P Garcia-Gonzalez; L Garamszegi. Experimentally constrained early reproduction shapes life history trajectories and behaviour. *Scientific Reports*. 11, pp. 4442. 2021.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 10** 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
- 11** 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 **Format:** Journal
Corresponding author: No
- 12** 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
- 13** 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
- 14** 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 **Format:** Journal
Corresponding author: No
- 15** 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
- 16** J Garrido-Bautista; G Moreno-Rueda; A Baz; D Canal; C Camacho; B Cifrian; JL Nieves-Aldrey; M Carles-Tolrá; 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
- 17** D Canal; C Camacho; B Martín; M de Lucas; M Ferrer. Fine-scale determinants of vertebrate roadkills: implications for mitigation measures. *Biodiversity and Conservation*. 28, pp. 3239 - 3256. 2019.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 18** 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



- 19** 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
- 20** 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
- 21** 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
- 22** 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
- 23** 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
- 24** 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
- 25** 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
- 26** 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
- 27** 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
- 28** 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
- 29** 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
- 30** 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

- 31** 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

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Type of production: Scientific paper

- 33** 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

- 34** 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

- 35** 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

- 36** 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

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Type of production: Scientific paper

Format: Journal

- 40** 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.

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Type of production: Scientific paper **Format:** Journal
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Type of production: Scientific paper **Format:** Journal
- 44** 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
- 45** 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
- 46** 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.; Caillet, 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
- 47** 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
- 48** 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
- 49** A Lara; S Santoro; C Camacho; J Potti; D Canal. MHC supertypes affect survival and lifetime reproductive success in a free-ranging songbird population. SUBMITTED.
Type of production: Scientific paper
Corresponding author: Yes



- 50** Camacho, Carlos; Canal, David; Martínez-Padilla, Jesús; Potti, Jaime. Natal experience, genetic background, and selection for philopatry in birds. SUBMITTED.
Type of production: Scientific paper **Format:** Journal
- 51** Potti, Jaime; Blanco, Guillermo; Lemus, Jesús 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
- 52** 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
- 53** R Díaz; M Mañez; A Martínez; 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

Works submitted to national or international conferences

- 1** **Title of the work:** How do animals build acoustic sequences? Relationship with acoustic traits and individual quality in the song of collared flycatcher (*Ficedula albicollis*)
Name of the conference: Hungarian Ethologists' Association Conference (MET-2022)
Type of participation: Participatory - oral communication
City of event: Budapest, Hungary
Date of event: 26/11/2022
S Zsebők; E Vaskuti; M Laczi; N Gergely; J Jablonszky; B Basta; D Canal; LS Garamszegi.
- 2** **Title of the work:** Natal experience, genetic origin and selection for philopatry in a spatially structured population
Name of the conference: 9th International Hole-Nesting Birds Conference
Type of participation: Participatory - oral communication
City of event: Oxford, United Kingdom
Date of event: 06/09/2022
End date: 10/09/2022
C Camacho; C Canal; J Potti; J Martínez-Padilla.
- 3** **Title of the work:** MHC supertypes affect survival and lifetime reproductive success in a migratory songbird
Name of the conference: 9th International Hole-Nesting Birds Conference
Type of participation: Participatory - oral communication
City of event: Oxford, United Kingdom
Date of event: 06/09/2022
End date: 10/09/2022
D Canal; S Santoro; A Lara; C Camacho; J Potti.
- 4** **Title of the work:** Parasites during early life mediate the strength of phenotypic selection on sexual traits
Name of the conference: 9th International Hole-Nesting Birds Conference
Type of participation: Participatory - oral communication
City of event: Oxford, United Kingdom
Date of event: 06/09/2022
End date: 10/09/2022
J Martínez-Padilla; C Camacho; C Canal; J Potti.



- 5** **Title of the work:** Density-dependent selection on local and immigrant birds drives the evolutionary dynamics of sexual ornaments
Name of the conference: 18th International Society for Behavioral Ecology Congress (ISBE)
Type of participation: Participatory - oral communication
City of event: Stockholm, Sweden
Date of event: 28/07/2022
End date: 02/08/2022
J Martinez-Padilla; C Camacho; C Canal; J Potti.
- 6** **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.
- 7** **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.
- 8** **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.
- 9** **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.
- 10** **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.



- 11 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.
- 12 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.
- 13 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.
- 14 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 Martínez-Padilla.
- 15 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.
- 16 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.



- 17** **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.
- 18** **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.
- 19** **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.
- 20** **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.
- 21** **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.
- 22** **Title of the work:** Evolutionary consequences of nonrandom dispersal in a spatially structured population
Name of the conference: BOU 2017 Anual 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.



- 23** **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.
- 24** **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.
- 25** **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.
- 26** **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.
- 27** **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.
- 28** **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.



- 29** **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.
- 30** **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.
- 31** **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.
- 32** **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.
- 33** **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.
- 34** **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.



- 35 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:** Reviewer of R&D projects for Polish Academy of Sciences
Entity where activity was carried out: Polish Academy of Sciences
Start date: 2022
- 2 Performed tasks:** Associate Editor
Entity where activity was carried out: IBIS
Start date: 2021
- 3 Performed tasks:** Associate Editor
Entity where activity was carried out: Animal Biodiversity and Conservation
Start date: 2020
- 4 Performed tasks:** Associate Editor
Entity where activity was carried out: El Hornero
Start date: 2020
- 5 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
- 6 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