

Part A. PERSONAL DATA

Date	15/10/2020
-------------	------------

Name	Giacomo Tavecchia		
DNI/NIE/passport	X5555895S	Edad	49
Research Identification Numbers	Researcher ID	N-3961-2014	
	Orcid	0000-0001-5435-2691	

A.1. SITUATION

Entity	Consejo Superior de Investigaciones Científicas		
Dpto./Institute	IMEDEA- Dept. Biodiversidad Animal y Microbiana		
Address	C/M. Marques 21		
Telephone	971611824	e-mail	g.tavecchia@uib.es
Position	Tenured Researcher	Since	Dic 2007
UNESCO- Code	240106 – Animal Ecology 310510 – Population dynamics 240123 – Vertebrates		
Key words			

A.2. FORMATION (*title, Institution, data*)

Degree/Ph.D	University	Year
Degree in Natural Sciences	University of Pavia (Italy)	1995
Ph.D. in Ecology and Evolution	University de Montpellier 2 (France)	2000

A.3. GENERAL INDEX OF SCIENTIFIC QUALITY AND PRODUCTIVITY

Citations: 2697 (Source SCOPUS)
h-index: 33 (Source SCOPUS) 38 (Source Google Scholar)
Publications (SCI): 30 (since 2015), 87 in total (Source SCOPUS)
Source ResearchGate: >20100 reads, 3388 citations, RG-index 38.3 (higher than 95% of the RG members), h-index : 37
“Sexenios” = 2 (last in 2020)
“Quinquenios” = 2 (last in 2017)
Direction of PhD these in the last 10 years: 5

Part B. SUMMARY OF THE CURRÍCULUM (*máx 3500 characters, including spaces*)

Currently a Tenured Researcher, head of the Animal Ecology and Demography Unit at IMEDEA (CSIC - UIB) and head of the Department of Animal and Microbial Biodiversity. I obtained the degree in Natural Sciences from the University of Pavia (Italy) in 1995 and the Doctorate in Ecology and Evolution in 2000 from the University of Montpellier 2 (France). From 2001 to 2003 I worked with postdoctoral grants at University of Cambridge, University of Kent, at the Imperial College of London (UK) and at the Center for Ecological and Evolutionary Synthesis (University of Oslo). In 2003 I obtained a “I3P” fellowship at the IMEDEA (CSIC-UIB, Spain) and subsequently a “Ramon y Cajal” fellowship. In 2008 I joined as a scientist the IMEDEA (CSIC-UIB). My research has always focused on animal demography and on the evolution of life-history traits. In my doctoral thesis and in my first postdoctoral contracts, I have estimated the cost of reproduction in natural populations, a central theme in the evolution of life-history traits. I have contributed in this field with three high-impact publications, two published in *Ecology* and one in the *Journal of Animal Ecology*. Since 2008 I have been interested in applied demography and in particular to the management of the populations contributing with several articles in conservation as well as ecological journal (e.g. *Biological Conservation*, *Journal of Applied Ecology* or *Ecological Applications*). I am currently the demographic processes of invasive species and the migratory and foraging strategies in long-lived species. My research has been characterized by a numerical approximation in a classical as well as Bayesian statistical framework. I

worked with data of many animal species from mammals to insect and I currently responsible for the long-term monitoring of three species of vertebrates in the Balearic Archipelago. I collaborated with research groups in Europe, Africa, Australia and America. I have participated in 15 scientific projects promoted by public entities of four European countries (United Kingdom, Spain, France and Italy). I have been a reviewer for more than 15 scientific journals and for research projects of the Ministry of Economy and Innovation (Spain), Junta de Andalucía (Spain), the National Environmental Research Council (United Kingdom) and the Nederlandse Organisatie voor Wetenschappelijk Onderzoek (Basis Countries). In parallel to my activities as a national and international R & D program advisor, I teach, since 2011, an international course on capture-mark-recapture analysis applied to the conservation of animal populations. Since 2007 I directed 5 doctoral theses.

Part C. MERITS (*sorted by types*)

C.1. Publications (10 most relevant publications in the last 10 years)

- Sanz-Aguilar, A., Cortés, I., Gascón, I., Martínez, O., Gnar, S., and Tavecchia, G. 2020. Modelling pest dynamics under uncertainty in pest detection: the case of the red palm weevil. **Biological Invasions**. V.22, pag 1635-1645 <https://doi.org/10.1007/s10530-020-02208-6>
- Rotger, A., Igual J.M. and Tavecchia G. 2020 Contrasting size-dependent life-history strategies of an insular lizard. **Current Zoology**, Vol1, pag 1–9 . doi: 10.1093/cz/zoaa019
- Tenan, S.; Tavecchia, G.; Oro, D.; Pradel, R. Assessing the effect of density on population growth when modeling individual encounter data. **Ecology**. Vol 100, 2595, <https://dx.doi.org/10.1002/ecy.2595>
- Sergio, Tavecchia, G., Tanferna, A., Blas, J., Blanco, G., and Hiraldo, F.. 2019. When and where mortality occurs throughout the annual cycle changes with age in a migratory birds: individual vs population implications. **Scientific Reports** , Vol. 9. Pag. 17352- (2019)
- Santidrian Tomillo, P., Robinson, N. J., Sanz-Aguilar, A., Spotila, J. R., Paladino, F. V., Tavecchia, G. 2017 High and variable mortality of leatherback turtles reveal possible anthropogenic impacts **Ecology** vol 98 pag 2170-2179
- Tavecchia, G.; Miranda M.-A.; Borrás, D; Bengoa, M.; Barceló, C.; Paredes-Esquivel, C.; Schwarz, C. 2017 Modelling the range expansion of the Tiger Mosquito in a Mediterranean Island accounting for imperfect detection. **Frontiers in Zoology** 14:39
- Tavecchia, G.; Tavecchia, G., Tenan, S., Pradel, R., Igual, J.-M., Genovart, M. and Oro, D. (2016), Climate-driven vital rates do not always mean climate-driven population. **Glob Change Biol**, 22: 3960–3966. doi:10.1111/gcb.13330
- Sergio, F., Tanferna, A., De Stephanis, R., Jiménez, L.L., Blas, J., Tavecchia, G., Preatoni, D., Hiraldo, F. 2014 Individual improvements and selective mortality shape lifelong migratory performance **Nature** 515 410 413
- Tenan, S., Pradel, R., Tavecchia, G., Igual, J.M., Sanz-Aguilar, A., Genovart M., Oro, D. 2014. Hierarchical modelling of population growth rate from individual capture–recapture data. **Methods in Ecology and Evolution** 5: 606-614.
- Tavecchia, G., Adrover, J., Navarro, A.M., Pradel, R. 2012 Modelling mortality causes in longitudinal data in the presence of tag loss: Application to raptor poisoning and electrocution **Journal of Applied Ecology** 49 297 305

C.2. Project

Title: El paradigma de la persistencia de las pequeñas poblaciones : genética y demografía de la lagartija Balear. Gobierno de las Islas Baleares
Entity: CAIB
Duration 2020-2023
IP/s: Giacomo Tavecchia

Title: Resiliencia de las poblaciones de aves marinas a perturbaciones naturales y antropogénicas: una aproximación interdisciplinar, Ministerio de Economía y Competitividad (MINECO)

Entity: CSIC

Duration: 2018-2021

IP/s: Giacomo Tavecchia and Daniel Oro

Title: MINOUW_Science, technology, and society initiative to minimize unwanted catches in European fisheries- Horizon 2020, UE - Unión Europea

Entities: >10

Duration: 2015-2019

IP/s: Francesc Maynou

Title: Impactos de la pesca sobre la biodiversidad y evidencias para su gestión sostenible en el mediterráneo ibérico, Ministerio de Economía y Competitividad (MINECO)

Entity: CSIC, IEO

Duration: 2014 - 2017

IP/s: Giacomo Tavecchia and Daniel Oro

Title: Demografía evolutiva de una lagartija insular, Ministerio de Investigación y Desarrollo

Entity: CSIC

Duration: 2010-2013

IP/s: G.Tavecchia

Title: Variaciones espacio-temporales del éxito reproductor de la gaviota picofina *Larus genei*: consecuencias para la gestión de la especie en humedales costeros, Agencia Española de Cooperación Internacional para el Desarrollo (AECID)

Entity: CSIC- Universidad de Gabés (Tunez)

Duration: 2009-2010

IP/s : Giacomo Tavecchia

Title: Acoplamiento demográfico entre dos mutualistas insulares, la lagartija balear (*Podarcis lilfordii*) y la efedra (*Ephedra fragilis*), COHI - Conselleria d'Economia, Hisenda i Innovació. Govern de les Illes Balears

Entity:: CSCI

Duration: 2007-2008

IP/s : Luis Santamaria y Giacomo Tavecchia

Title: Hacia una integración de parámetros demográficos y genéticos en el análisis de viabilidad de poblaciones (PVA) en ecología y conservación, MCTE - Ministerio de Ciencia y Tecnología

Entity: CSIC

Duration: 2006-2009

IP/s: Daniel Oro

Title: 'Linking ecological and evolutionary dynamics', 3393 - Biotechnology and Biological Sciences Research Council (BBSRC)

Entity: University of Kent, Imperial College of London---

Duration: 2005 -2008

IP/s: Morgan, B.J:T, Coulson, T.

C.3 Contracts

None

C.4. Patentes

None

C.5 Referee

Referee for more than 15 SCI journals (among others. Nature, Ecology Letters, Ecology, Journal of Animal Ecology.. etc..)

C.6 Evaluation Panels

Member of the evaluation panel for I+D Project for the Spanish Minister of Education and Science (Spain), Andalucía Council (Spain), National Environmental Research Council (UK) and the Nederlandse Organisatie voor Wetenschappelijk Onderzoek (The Netherlands).

C.7. Scientific Activities

Member of the evaluation panel in national and international PhDs

Member of the evaluation panel for Tenured Researcher at the CISC

Scientific Guarantor for the “Maria de Maetzu” fellowship (year 2018-2019)

C.8. Scientific Editorial Activity

None

C.8 Awards

- 1- “Watson Prize” to the best raptor publication. Year 2015
- 2- II Award “Biodiversity and Society”, Dirección General de Medio Natural – Grupo GEP (Conselleria de Infraestructuras, Territorio y Medio Ambiente, Generalitat Valenciana). Year 2014
- 3- Award from The “Estacion Biologica de Doñana” to the best publication in 2014
- 4- ‘Eduardo Bianchi’ Award to the best Degree Thesis, Year 1995

C.9 Student supervision

I directed 4 Ph.D theses (1 JAE-predocctoral, 1 FPU, 1 FPI), 1 master and 1 JAE-intro (“Arquímedes” award) and 3 Internships (IUT - University of Toulouse). In 2018-19 I directed 1 Ph.D. thesis and 2 Master (University of Santiago and University of Balearic Islands). In 2020 I directed 2 Master (University of La Rochelle and University of Balearic Islands) and 1 Internship (IUT, University of Toulouse)