

PERSONAL INFORMATION



Oriol Cano Rocabayera

 C/ Bogatell 39, 08930 Sant Adrià de Besòs (Spain)

 0034654334243  0034934623048

 canorocabayera@gmail.com

WORK EXPERIENCE

06/2021 - 07/2021

Field work technician

09/2020 - 11/2020

GESNA Estudis Ambientals SL, Lleida

Electrofishing duties in conservation and biomonitoring studies in Mediterranean rivers.

01/2021 - 05/2021

Secondary school teacher

Escola Ramiro de Maeztu and Arrels Esperança, Badalona

08/2020–11/2020

Laboratory technician

07/2019–12/2019

Institució Catalana d'Història Natural, Barcelona

Research project between the University of Barcelona, the Catalan Institution of Natural History and the University of Antwerp (Belgium). Sample processing for elemental analysis of carbon, nitrogen and metals of moss tissues.

01/04/2020

Postdoctoral fellow

South African Institute of Aquatic Biodiversity, Grahamstown (South Africa)

Fisheries assessment. Unable to start and cancelled due to the COVID-19 pandemics.

01/2014–10/2019

PhD student

Universitat de Barcelona

PhD in biodiversity in the Department of Evolutionary Biology, Ecology and Environmental Sciences. "The invasion of *Gambusia holbrooki* in eutrophic ecosystems. From ecological mechanisms to its management". Member of the Consolidated Research Group in Evolutionary Biology, Behavior and Conservation Biology and the Biodiversity Research Institute.

01/08/2018–04/09/2018

Placement student

Universidad Jorge Tadeo Lozano, Bogotá (Colombia)

Lab experiment of cadmium toxicity. Metabolism analysis, exposure and effect biomarkers (elemental cadmium, metallothioneins and acetylcholinesterase). Tutor: Dr. Michael Ahrens

30/10/2017–20/12/2017

Placement student

Imperial College London, Silwood Park (United Kingdom)

Ecosystem multifunctionality analysis and the size- abundance spectrum. Tutor: Prof Guy Woodward.

07/07/2014–15/08/2014

Intern

Unitat UB - Bullipèdia

Collaboration grant in the University of Barcelona. Review of the zoological contents of the Degree in Cooking and Gastronomy and conducting a 3-week internship at the Ferran Adrià's BulliLab.

09/2010–09/2013

Research collaborator

Universitat de Barcelona

Research group in vertebrate biology (2009 SGR 43). Fish as bioindicators of environmental quality. Training in fieldwork electric fishing and processing of laboratory samples (stable isotope analysis, hematological parameters, preparation and analysis of histopathology samples in fish).

EDUCATION AND TRAINING

2011–2012 MSc in Biodiversity

Universitat de Barcelona

Itinerary of zoology. Field work in arthropods and vertebrates. Final project: "Effect of nitrate on the biology of mosquitofish (*Gambusia holbrooki*)".

2006–2011 BSc in Environmental Sciences

Universitat de Barcelona

Itinerary of environmental management. Final project: "Diagnosis of the ichthyofauna of Lake Titicaca (Peru) using hematological parameters".

PERSONAL SKILLS

Mother tongue(s) Catalan, Spanish

Foreign language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages - Self-assessment grid

Job-related skills

Assistant professor as part of the APIF scholarship of the University of Barcelona. Teacher training in laboratory practices in field practices in Biology and Environmental Sciences Degree and the Master in Biodiversity (~ 60 h per year). Conferences to the general public related to conservation of biodiversity ('Tronades naturalistes') and recycling (UNESCO-Sant Adrià).

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Independent user	Independent user	Independent user	Independent user

Digital skills - Self-assessment grid

Competent user of Word, Excel and Powerpoint.

Advanced user of the R software for statistical data analysis. Programming of mixed models and multivariate statistics.

Other skills

Black belt 1st Dan of karate kyokushin. 1 year of training for children.

Student of the Badalona School of Modern Music, training in electric guitar, percussion and musical language

Driving license B International

ADDITIONAL INFORMATION

- Publications** Fernández-Martínez, M.; Preece, C.; Corbera, J.; Cano-Rocabayera, O.; Garcia-Porta, J.; Bogdziewicz, M.; Sardans, J.; Janssens, I.; Sabater, F.; Peñuelas, J. 2021. Nutrients control reproductive traits of bryophytes. *Freshwater Ecology*, doi: 10.1111/fwb.13729.
- Publications** Fernández-Martínez, M.; Preece, C.; Corbera, J.; Cano-Rocabayera, O.; Garcia-Porta, J.; Sardans, J.; Janssens, I. A.; Sabater, F.; Peñuelas, J. 2021. Bryophyte C:N:P stoichiometry, biogeochemical niches and elementome plasticity driven by environment and coexistence. *Ecology Letters*, doi: <https://doi.org/10.1111/ele.13752>
- Publications** Cano-Rocabayera, O.; Vargas, S.; Aranda, C.; de Sostoa, A.; Maceda-Veiga, A. 2020. Mosquito larvae consumption in turbid waters: the role of the type of turbidity and the larval stage in native and invasive fish. *Hydrobiologia*, 847, 1371-1381.
- Publications** Cano-Rocabayera, O.; de Sostoa, A.; Coll, L.; Maceda-Veiga, A. 2019. Managing small, highly prolific invasive aquatic species: Exploring an ecosystem approach for the eastern mosquitofish (*Gambusia holbrooki*). *Science of The Total Environment*, 673, 594-604.
- Publications** Maceda-Veiga, A.; Cano-Rocabayera, O.; de Sostoa, A.; Cable, J. 2019. Low parasite prevalence in the invasive fish *Gambusia holbrooki* in riverine and stagnant waters in north-eastern Spain. *Bulletin of the European Association of Fish Pathologists*, 39 (2), 65 - 71.
- Publications** Cano-Rocabayera, O.; de Sostoa, A.; Padrós, F.; Cárdenas, L.; Maceda-Veiga, A. 2019. Ecologically relevant biomarkers reveal that chronic effects of nitrate depend on sex and life stage in the invasive fish *Gambusia holbrooki*. *PloS one*, 14 (1), e0211389.
- Publications** Cano-Rocabayera, O.; Maceda-Veiga, A.; de Sostoa, A. 2015. "Fish fins and scales as non-lethal tissues for stable isotope analysis in five fish species of north-eastern Spain". *Environmental Biology of Fishes*, 98(3), 925-932
- Publications** Colin, N.; Porte, C.; Fernandes, D.; Barata, C.; Padrós, F.; Carrassón, M.; Monroy, M.; Cano-Rocabayera, O.; de Sostoa, A.; Piña, B.; Maceda-Veiga, A. 2016. "Ecological relevance of biomarkers in monitoring studies of macro-invertebrates and fish in Mediterranean rivers". *Science of the Total Environment*, 540: 307-323
- Publications** Cano-Rocabayera, O.; Maceda-Veiga, A. 2013. *Rutilus rutilus*. En: *Invasive Species Compendium*. Wallingford, UK: CAB International. www.cabi.org/isc
- Publications** Cano-Rocabayera, O.; de Sostoa, A.; Muñoz, I.; Salvadó, H.; Vilumara, J.; Cáceres, G.; Maceda-Veiga, A. "Ecological impacts of an introduced omnivorous fish in Nitrate Vulnerable Zones: a whole-ecosystem approach". *Freshwater Biology* (under review)
- Presentations** Cano-Rocabayera, O.; de Sostoa, A.; Coll, L.; Maceda-Veiga, A. 2020. Exploring an ecosystem management approach for the invasive mosquitofish (*Gambusia holbrooki*). VIII Congreso Ibérico de Ictiología SIBIC. Santiago de Compostela, Spain. Oral presentation.
- Presentations** Cano-Rocabayera, O.; Maceda-Veiga, A.; Muñoz, I.; Salvadó, H.; Vilumara, J.; Cáceres, G.; Perkins, D.; O'Gorman, E.; Woodward, G.; de Sostoa, A. 2019. Long term nitrate pollution reduces ecosystem functioning in the presence and absence of an invasive predator. 1º encuentro de la Sociedad Ibérica en Ecología (SIBECOL). Barcelona, Spain. Oral presentation.
- Presentations** Oriol Cano-Rocabayera, Alberto Maceda-Veiga, Lluís Coll, Sergi Vargas, Adolfo de Sostoa. 2017. Eutrophication increases the invasion success of a widespread alien fish species. 10th Symposium for European Freshwater Sciences. Olomouc, Czech Republic. Oral presentation.

- Presentations** Cano-Rocabayera, O.; Maceda-Veiga, A.; Muñoz, I.; Díaz-Catalán, D.; de Sostoa, A. 2015. Impact of nutrient enrichment and fish introductions on the structure and function of experimental shallow littoral lagoons. XV European Congress of Ichthyology. Porto, Portugal. Poster.
- Presentations** Vargas-Amengual, S.; Cano-Rocabayera, O.; Aranda, C.; Maceda-Veiga, A.; de Sostoa, A. 2015. Turbidity thrives the efficacy of the eastern mosquitofish and the Spanish toothcarp as mosquito controlagents. XV European Congress of Ichthyology. Porto, Portugal. Oral presentation.
- Presentations** Cano-Rocabayera, O.; Maceda-Veiga, A.; Cárdenas, L.; Monroy, M.; de Sostoa, A. 2014. Effect of nitrate pollution on the invasive *Gambusia holbrooki*. XVII Congreso de la Asociación Ibérica de Limnología. Santander, Spain. Poster.
- Projects** PRIC (Research and Conservation Project) awarded by the Barcelona Zoo Foundation to evaluate the conservation status of benthic marine rocky fish communities under tourism pressures in NW Mediterranean(Costa Brava). IP: Dr. Alberto Maceda-Veiga
- Projects** PRIC (Research and Conservation Project) awarded by the Barcelona Zoo Foundation to evaluate and compare the efficiency of the biological control of mosquitoes between a species of endangered fish, *Aphanius iberus*, and an exotic one *Gambusia holbrooki*, in collaboration with the Mosquito Control Service of Baix Llobregat (Barcelona). IP: Dr. Adolf de Sostoa
- Projects** Participation in 1 national project (FURIMED-2, IP: Dra. Maria Rieradevall) and 1 international (Lago Titicaca, IP: Dr. Adolf de Sostoa)
- Courses** ESRI ArcGIS 10 user course (ArcView), taught by the Geographic Information and Remote Sensing Laboratory of the Autonomous University of Barcelona, 2 - 16 December 2014. 20 hours.
- Courses** Training of research staff using experimental animals, given by the Ethical Committee of Animal Experimentation of the University of Barcelona. 80 hours
- Courses** Course of statistics applied to biological sciences. Faculty of Biology of the University of Barcelona, January 25 - 27, 2016.
- Courses** Assessment of pasture management and ecological status. Catalan Institution of Natural History (ICHN), May 12 - 13, 2012. 15 hours
- Awards** APIF Scholarship of the University of Barcelona for the realization of doctoral studies. Duration: May 2015 - April 2018
- Awards** Scholarships for last year BSc students for collaboration in university departments (Ministry of Education, Spain). Duration: January- June 2011.
- Awards** International mention for completing the doctoral studies with international placements of > 3 months and having the thesis checked by two international referees.
- Awards** Marie Skłodowska-Curie action (EU Horizon 2020), under the Global Fellowship mode, to develop postdoctoral research outside and in the European Union. To be started in October 2021.