



Jesús J. López

ECOLOGY, SPATIAL DATA SCIENCE AND WEB TECHNOLOGIES

☎ +34 642 158 786 | ✉ lopezjimenezjesus@gmail.com

🏠 lopezjimenezjesus.github.io | 📞 0000-0003-0543-7992 | 📱 [lopezjimenezjesus](#) | 📺 [lopezjimenezjesus](#)

🔧 Work experience

Researcher and Technician - Marine Ecology

Madeira, Portugal

MARINE AND ENVIRONMENTAL SCIENCES CENTRE (MARE)

2018 - 2021

- Field work, monitoring and geospatial analysis for ongoing marine research projects
- Marine Science Phd at University of Lisbon - I'm sorry but I quit ;)
- Coastal Habitat Mapping with Drones: Madeira and Selvagens Islands
- Nest detection and habitat characterization of burrow-nesting seabirds using aerial drone-based imagery
- Monitoring intertidal communities in the Avenças Marine Protected Area
- Plastic pollution in yellow-legged gulls (*Larus michahellis*) - field work and mapping
- CleanAtlantic: Tackling Marine Litter in the Atlantic Area - monitoring and management

Freelance Geospatial Researcher

Loja, Ecuador

TECHNICAL UNIVERSITY OF LOJA (UTPL, ECUADOR).

2017

- Dry scrub Vegetation Indices (VIs) in Alamala (Loja) derived from high resolution multispectral images acquired with drones

Researcher and Technician - Human Systems Department

Galapagos, Ecuador

CHARLES DARWIN RESEARCH STATION

2012 - 2016

- Coordination of the GIS and IT Area supporting a variety of scientific projects and conservation institutions
- Knowledge Management: biodiversity data portal and geoportal
- Galapagos Green 2050: mapping and visualization
- Catalog of terrestrial gastropods from Galapagos
- Galapagos National Park Zoning Process
- Whale shark monitoring program (*Rhincodon typus*)
- Galapagos 360 Google Street View
- Marine turtle monitoring program (*Chelonia midas*)
- Ecotourism in Galapagos: Web Mapping
- GIS Training at Central University of Ecuador, Puerto Ayora, Galapagos

GIS Technician

Seville, Spain

HI-TEC. BLUELINE S.L

2009 - 2011

- Enterprise GIS implementation and training

GIS Technician

Almeria, Spain

CIBERNOS / TELVENT

2018

- Field work, digitization and GIS implementation

GIS & RS Technician

Sevilla, Spain

EGMASA

2007

- Remote Sensing Derived Environmental Indicators (Modis, Landsat)

🎓 Education

University of Cádiz

Cádiz, Spain

EXPERT IN REMOTELY PILOTED AERIAL SYSTEMS (RPAS) AND CIVIL APPLICATIONS

2016 - 2017

University of Jaén

Jaén, Spain

EXPERT IN ASSESSMENT OF THE QUALITY OF GEOGRAPHICAL INFORMATION

2010 - 2011

National Distance Education University (UNED)

Spain

REMOTE SENSING SPECIALIST

2008

University of Seville

Seville, Spain

MASTER IN GIS: ENVIRONMENT AND LAND MANAGEMENT

2006 - 2007

TEACHING CERTIFICATE

2002 - 2003

Publications

1. Monteiro, J.G., **Jiménez, J.L.**, Gizzi, F. et al. Novel approach to enhance coastal habitat and biotope mapping with drone aerial imagery analysis. Sci Rep 11, 574 (2021). <https://doi.org/10.1038/s41598-020-80612-7>
2. Nuno Castro, Patrício Ramalhosa, **Jesús Jiménez**, José Lino Costa, Ignacio Gestoso, João Canning-Clode. 2020. Exploring marine invasions connectivity in a NE Atlantic Island through the lens of historical maritime traffic patterns. <https://doi.org/10.1016/j.rsma.2020.101333>
3. Gizzi, Francesca, **Jesús Jiménez**, Susanne Schäfer, Nuno Castro, Sónia Costa, Sílvia Lourenço, Ricardo José, João Canning-Clode, and João Monteiro. 2020. "Before and after a Disease Outbreak: Tracking a Keystone Species Recovery from a Mass Mortality Event." Marine Environmental Research, February, 104905. <https://doi.org/10.1016/j.marenvres.2020.104905>.
4. **Jiménez López, Jesús**, and Margarita Mulero-Pázmány. 2019. "Drones for Conservation in Protected Areas: Present and Future." Drones 3 (1): 10. <https://doi.org/10.3390/drones3010010>.
5. Parra M, **J Jiménez** and V Toral. 2015. Evaluation of the incidence of boats impacting green turtles (Chelonia mydas) along the southern coast of Isabela, Galapagos. Pp.95-102. In: Galapagos Report 2013-2014. GNPD, GCREG, CDF and GC. Puerto Ayora, Galapagos, Ecuador.
6. Acuña-Marrero D, **Jiménez J**, Smith F, Doherty PF Jr, Hearn A, Green JR, et al. (2014) Whale Shark (Rhincodon typus) seasonal presence, residence time and habitat use at Darwin Island, Galapagos Marine Reserve. PLoS ONE 9(12): e115946. <https://doi.org/10.1371/journal.pone.0115946>
7. **Jiménez, J.**, 2010. Comparative study of sampling procedures in the quality control of digital classification of satellite images. Postgraduate project. University of Jaen, Spain
8. **Jiménez, J.**, 2007. Remote Sensing for Environmental Applications. Postgraduate project. University of Seville.

Training

GIS & Remote Sensing

COPERNICUS PROGRAMME APPLIED TO GEOSPATIAL INFORMATION MANAGEMENT AND PRODUCTION- IGN	2022
IMAGERY IN ACTION - ESRI	2022
GEOINFORMATIC APPLIED TO FOREST ECOSYSTEMS - UNIVERSITY OF CÓRDOBA, SPAIN	2022
REMOTE SENSING AND SAR - NATIONAL COMMISSION ON SPACE ACTIVITIES (CONAE)	2022
LAND IN FOCUS: REMOTE SENSING - EO COLLEGE	2022
SPATIAL DATA SCIENCE: THE NEW FRONTIER IN ANALYTICS - ESRI	2022
ARTIFICIAL INTELLIGENCE (AI) FOR EARTH MONITORING - EUMETSAT	2021
COPERNICUS MOOC: LEARN TO HARNESS THE POWER OF SPACE DATA - COPERNICUS PROGRAMME	2021
GOOGLE EARTH ENGINE FOR REMOTE SENSING AND GIS - UDEMY	2020
EARTH OBSERVATION FROM SPACE: THE OPTICAL VIEW - EUROPEAN SPACE AGENCY (ESA)	2017
MONITORING THE OCEAN FROM SPACE - EUMETSAT	2017
OPEN SOURCE GEOSPATIAL TECHNOLOGY GST101-105 - FOSS4GACADEMY	2016
REMOTE SENSING, PHOTOGRAMETRY, LIDAR AND LAND USE - IGN	2014
IMAGE PROCESSING SOFTWARE FOR REMOTE SENSING - CONAE	2014
ADVANCE THEMATIC MAPPING WITH GIS TOOLS - IGN, SPAIN	2013
SPATIAL DATABASES: POSTGIS - POLYTECHNIC UNIVERSITY OF VALENCIA, SPAIN	2011
SPATIAL DATA INFRASTRUCTURE - IGN, SPAIN	2009

Data Science & IT

INTRODUCTION TO GIT AND GITHUB - GOOGLE	2022
USING PYTHON TO INTERACT WITH THE OPERATING SYSTEM - GOOGLE	2022
MACHINE LEARNING IN PYTHON WITH SCIKIT-LEARN - INRIA	2022
ELEMENTS OF AI - UNIVERSITY OF HELSINKI	2022
LATEX AND GIT APPLIED TO SCIENTIFIC RESEARCH - DARWIN EVENTUR ASSOCIATION	2022
DATA SCIENCE FOR ECOLOGISTS AND ENVIRONMENTAL SCIENTISTS - CODING CLUB	2022
INTERMEDIATE PYTHON - DARWIN EVENTUR ASSOCIATION	2021
DOCKER ESSENTIALS: A DEVELOPER INTRODUCTION - IBM	2021
DATA SCIENCE CURRICULUM (R & PYTHON): MACHINE LEARNING, GEOSPATIAL ANALYSIS, ADVANCED SQL - DATACAMP,	2021
PLURALSIGHT, KAGGLE	2021
DEEP DIVE INTO MODERN WEB DEVELOPMENT. FULL STACK OPEN - UNIVERSITY OF HELSINKI	2021
LEARN TO CODE FOR DATA ANALYSIS - THE OPEN UNIVERSITY	2017
DEEP DIVE INTO MODERN WEB DEVELOPMENT. FULL STACK OPEN - ES/LARED FOUNDATION	2015
NETWORK MONITORING AND MANAGEMENT - UNIVERSITY OF HELSINKI	2021
R DATA ANALYSIS - UNIVERSITY OF HELSINKI	2021

Biodiversity & Ecology

NATURE CONSERVATION SERIES (MANAGEMENT, VALORISATION, ECOLOGICAL MONITORING, MARINE PROTECTED AREAS, NEW TECHNOLOGIES FOR PROTECTED AREAS - IUCN-PAPACO	2022
ECOLOGICAL NICHE MODELLING - FROM THEORY TO PRACTICE - CIBIO-INBIO	2020

Skills

Coding

R • Python • JavaScript •
Django • Bash • Git •
Markdown • LaTeX

GIS & RS

QGIS • Earth Engine •
OGC • GRASS • WebODM
• ArcGIS

Databases

SQL • PostgreSQL •
PostGIS • MySQL •
SQLite


OS

Linux • macOS •
Windows

Other


GIMP • Inkscape • Zotero

MISC

 **Journal reviewer** MDPI: Drones, Sci, Applied Science; Wiley: Remote Sensing in Ecology and Conservation

 **Rescue Diver** PADI

 **Recreational Boat Pattern** Spanish Nautical Title

 **Approved Drone Operator** AESA (Spanish Federal Aviation Administration)

 **Languages** Spanish Native - English C1 - Portuguese A2