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ACADEMIC QUALIFICATIONS

2021: Doctor of Philosophy, Biology, Universidad Autónoma de Madrid, Spain

2010: Master of Science, Conservation Biology, Universidad Complutense de Madrid, Spain

2009: Bachelor of Science, Biological Sciences, Universidad Autónoma de Madrid, Spain

OTHER EDUCATION

2011-2012 Euroinnova Business School. Trained as a Senior Technician of food safety under the APCC management system.

RESEARCH AND PROFESSIONAL EXPERIENCE

- 02/2021-10/2022 Research assistant at the Museo Nacional de Ciencias Naturales (MNCN–CSIC) associated with the project (EX(t)REMYS): Expansions and regressions in marine and brackish species. Genomic signals in a changing Mediterranean.
- 03/2020-10/2020 Research assistant at the Museo Nacional de Ciencias Naturales (MNCN–CSIC), Sociedad de Amigos del Museo Nacional de Ciencias Naturales (SAM) and the Fundación Biodiversidad (Ministerio para la Transición Ecológica y el Reto Demográfico) associated with the project “Coralien”.
- 01/2016–01/2020 Predoctoral studentship at the Museo Nacional de Ciencias Naturales de Madrid (MNCN–CSIC) associated with the project “ConCoast: Connectivity of coastal species with low dispersion capacity and factors that modulate their genetic structure. Applications for conservation”. Thesis title: “Genetic structure and connectivity in coastal marine invertebrates”.
- 05/2013–01/2016 Research assistant at the Museo Nacional de Ciencias Naturales (MNCN–CSIC) associated with the European project VII Programa Marco, OCEAN. 2011-4 “CoCoNET: Towards Coast to Coast NETWORKS of marine protected areas (from the shore to the high and deep sea), coupled with sea-based wind energy potential”. Specific project: Analysis of the genetic diversity of *Gibbula divaricata* and *Cladocora caespitosa* in the Mediterranean and Black Sea.
- 01/2012–11/2012 Research assistant at the Museo Nacional de Ciencias Naturales (MNCN–CSIC) associated with the project “Dispersal and speciation in micrometazoans. Geographic barriers, phylogeography and phylogeny in limnoterrestrial tardigrades”. Specific role: sample separation and mounting of permanent preparations for morphological studies.
- 01/2011–12/2011 Internship and volunteer research position in the Departamento de Biodiversidad y Biología Evolutiva at the Museo Nacional de Ciencias Naturales (MNCN–CSIC). During this time, I trained in the handling and preparation of tardigrades (Phylum Tardigrada) and improved my scientific training for further advancement.
- 10/2009–12/2010 Master’s degree research student jointly at the Museo Nacional de Ciencias Naturales (MNCN–CSIC) and at the Universidad Complutense de Madrid. Final project: Morphological revision of vulnerable species of the genus *Asterina* in the Western Palearctic.
- 09/2008–09/2009 Undergraduate research student jointly at the Museo Nacional de Ciencias Naturales (MNCN–CSIC) and the Universidad Autónoma de Madrid. Final project: Revision of characters used in the morphological analysis of the genus *Asterina*, and the development of techniques for dissection, scanning electron and optical microscopy.
- 2006–2007 Classroom assistant for Informatics courses at the Universidad Autónoma de Madrid. I worked for 18

hours weekly throughout the academic year and provided assistance to both instructors and students.

PUBLICATIONS

- López-Márquez V**, Cushman S.A, Templado J, Wan H.Y, Bothwell H.M and Machordom A. Connectivity patterns of two marine gastropods in the Mediterranean Sea: seascape genetics reveals oceanographic drivers of gene flow. *Molecular Ecology*, 30(19): 4608-4629. <https://doi.org/10.1111/mec.16080> IF 2020: 6.185
- López-Márquez, V.;** Lozano-Martín, C.; Hadjioannou, L.; Acevedo, I.; Templado, J.; Jimenez, C.; Taviani, M. y Machordom, A. 2021. Asexual reproduction in bad times? The case of *Cladocora caespitosa* in the eastern Mediterranean Sea. *Coral Reefs*, 1-15. DOI 10.1007/s00338-020-02040-3. IF 2020: 3.902
- Gaeta J, Acevedo I, **López-Márquez V**, Freitas R, Cruz R, Maggioni R, Herrera R, Machordom A. 2019. Genetic differentiation among Atlantic island populations of the brown spiny lobster *Panulirus echinatus* (Decapoda: Palinuridae). *Aquatic Conservation: Marine and Freshwater Ecosystems*. <https://doi.org/10.1002/aqc.3297>
- López-Márquez V**, Cushman S.A, Templado J, Wan H.Y, Bothwell H.M, Kruschel C, Macic V and Machordom A. 2019. Seascape genetics and connectivity modelling for an endangered Mediterranean coral in the northern Ionian and Adriatic seas. *Landscape Ecology*. DOI 10.1007/s10980-019-00911-x. IP 2019: 4.349
- López-Márquez V**, Templado J, Buckley D, Marino I, Boscari E, Micu D, Zane L and Machordom A. 2019. Connectivity Among Populations of the Top Shell *Gibbula divaricata* in the Adriatic Sea. *Frontiers in Genetics*. 10:177. doi: 10.3389/fgene.2019.00177. IP 2019: 3.517
- López-Márquez, V.;** García-Jiménez, R; Calvo, M; Templado, J y Machordom, A. 2018. Isolation of microsatellite loci for the endangered vermetid gastropod *Dendropoma lebeche* using Illumina *MiSeq* next generation sequencing technology. *Molecular Biology Reports*. <https://doi.org/10.1007/s11033-018-4346-x>. IP 2018: 2.107
- López-Márquez, V.;** Acevedo, I; Manjón-Cabeza, M.E; García-Jiménez, R; Templado, J y Machordom, A. 2018. Looking for morphological evidence of cryptic species in *Asterina* Nardo, 1834 (Echinodermata: Asteroidea). The redescription of *Asterina pancerii* (Gasco, 1870) and the description of two new species. *Invertebrate systematics*, (32): 505-523. <https://doi.org/10.1071/IS17024>. IP 2017: 2.172
- López-Márquez, V.;** García-Jiménez, R; Templado, J y Machordom, A. 2016. Development and characterization of 26 novel microsatellite loci for the trochid gastropod *Gibbula divaricata* (Linnaeus, 1758), using Illumina *MiSeq* next generation sequencing technology. *PeerJ*. DOI 10.7717/peerj.1789. IP 2016: 2.2
- Alfaya, J. E. F.; **López-Márquez, V.;** García-Jiménez, R.; Fernández-Álvarez, F. Á.; Bigatti, G. y Machordom, A. 2014. Development and characterization of microsatellite loci in the entocommensal *Malacobdella arrokeana* (Nemertea: Bdellonemertea), from Patagonia (Argentina) and cross-amplification in 34 nemertean species. *Conservation Genetics Resources*, 6: 147-150. IP 2014: 1.172
- López-Márquez, V.;** Alfaya, J. E. F.; García-Jiménez, R.; Bigatti, G. y Machordom, A. 2013. Isolation and characterisation of microsatellite loci for the southern geoduck, *Panopea abbreviata* (Valenciennes, 1839) through 454 pyrosequencing. In: Ahanchede, A. et al., 2013. Permanent Genetic Resources added to Molecular Ecology Resources Database 1 August 2012-30 September 2012. *Molecular Ecology Resources*, 13(1): 158-159. IP 2013: 5.626

SIGNATORIES

- Scientist signatory** in Kehoe, L.; Reis, T.; Virah-Sawmy, M.; Balmford, A.; Kuemmerle, T.; Knohl, A.; Antonelli, A.; Balmford, A. et al.* 2019. Make EU trade with Brazil sustainable. *Science*, 364(6438): 341. <https://doi.org/10.1126/science.aaw8276> (*604 authors). IF 2019: 41.845
- William J. Ripple, Christopher Wolf, Thomas M. Newsome, Mauro Galetti, Mohammed Alamgir, Eileen Crist, Mahmoud I. Mahmoud, William F. Laurance. 2017. World Scientists' Warning to Humanity: A Second Notice. *BioScience*, bix125, <https://doi.org/10.1093/biosci/bix125> IP 2017: 5.378

As a member of the CoCoNet Consortium in Boero, F.; Foglini, F.; Fraschetti, S.; Paul Goriup, P.; Macpherson, E.; Planes, S.; Soukissian, T. and **The CoCoNet Consortium**. 2016. CoCoNet: Towards coast to coast networks of marine protected areas (from the shore to the high and deep sea), coupled with sea-based wind energy potential. *Scires it*, 6 (suppl.): 1-95. DOI 10.2423/i22394303v6Spl

PARTICIPATION IN RESEARCH PROJECTS

Ex(t)remys: Expansions and regresions in marine and brackish species. Genomic signals in a changing Mediterranean. Funded by the Agencia Estatal de Investigación (PDI2019-108644GB-I00). 2020-2023.
PI: Annie Machordom

Coralien: Effects of the expansion of exotic / invasive species on the genomic-population parameters of coastal autochthonous species: the corals *Cladocora caespitosa* and *Oculina patagonica* as an example. Funded by the Fundación Biodiversidad (Ministerio para la Transición Ecológica y el Reto Demográfico). 2020-2022.
PI: Annie Machordom

ConCoast: Connectivity of coastal species with low dispersion capability and factors that modulate their genetic structure. Applications for conservation. Funded by the Ministerio de Economía y Competitividad. 2015–2018.
PI: Annie Machordom

CoCoNET: Towards Coast to Coast NETworks of marine protected areas (from the shore to the high and deep sea), coupled with sea-based wind energy potential. Funded by the VII Programa Marco de la Unión Europea (FP7: OCEAN). 2012–2015.
PI: Ferdinando Boero

Diferenciación genética y ecológica de *Desmophyllum dianthus* en los golfos de Comau y Renihue. Funded by the Fundación Huinay–Endesa–CSIC. 2014.
PI: Annie Machordom

Aproximación evolutiva a la taxonomía y filogenia del orden Scleractinia (Cnidaria: Anthozoa: Hexacorallia). Funded by the Ministerio de Ciencia e Innovación. 2012–2014.
PI: Annie Machordom

Dispersal and speciation in micrometazoans. Geographic barriers, phylogeography and phylogeny of limnoterrestrial tardigrades. Funded by Marie Curie Action: European Reintegration Grant program (PEOPLE-ERG) by the European Commission. 2010–2012.
PIs: Noemí Guil and Annie Machordom

Genetic structure and connectivity of marine species and determinant factors (biotic and abiotic) of their evolution. Funded by the Ministerio de Ciencia e Innovación. 2009–2011.
PI: Annie Machordom

INTERSHIP

07/2018-10/2018 At the US Forest Service, Rocky Mountain Research Station. Department: Landscape Science. Professor Samuel Cushman. Address: E Pine Knoll Dr. 2500 Flagstaff Arizona (EEUU). The main objective of the stay covered part of the necessary analyses to achieve the final objectives of my PhD, such as the comparison of the genetic results obtained with the variation of the abiotic factors collected in each sampling point, evaluating which are the determining factors of the genetic differentiation obtained, in a "seascape genetics" framework. Some of the tasks done are the treatment and analysis of genetic data sets and oceanographic factors, in an environment of geographical georeferencing programs such as ArcGis. Finally, it was started to prepare the drafts of scientific publications related to the data obtained in the stay.

TEACHING EXPERIENCE

2020 Collaborated in the development of genetic practicals for the Departamento de Biología, Unidad de Genética at

the Universidad Autónoma de Madrid. Duration: 60 hours.

- 2019 Collaborated in the development of laboratory practicals for “Biodiversity of tropical areas and their conservation. Technical course in the Molecular phylogenies held at the Museo Nacional de Ciencias Naturales. Organized by the Universidad Internacional Ménendez Pelayo and the Museo Nacional de Ciencias Naturales (MNCN–CSIC). Duration: 24 hours.
- 2019 Collaborated in the development of genetic practicals for the Departamento de Biología, Unidad de Genética at the Universidad Autónoma de Madrid. Duration: 40 hours.
- 2018 Collaborated in the development of genetic practicals for the Departamento de Biología, Unidad de Genética at the Universidad Autónoma de Madrid. Duration: 30 hours.
- 2017 Instructor of a master class in “Biodiversity of tropical areas and their conservation. Technical course in the identification and delimitation of species” held at the Museo Nacional de Ciencias Naturales. Organized by the Universidad Internacional Ménendez Pelayo and the Museo Nacional de Ciencias Naturales (MNCN–CSIC). Duration: 2 hours.
- 2017 Course instructor for “Rehabilitation of the coral reef” held at the Zoo-Aquarium de Madrid. Organized by the Zoo-Aquarium de Madrid and the Museo Nacional de Ciencias Naturales. Duration: 1 hour.
- 2016 Course instructor for “En busca del ADN de Cervantes” held at the Museo Nacional de Ciencias Naturales and organized by the Departamento de Comunicación at the MNCN–CSIC. Duration: 3 hours.

RESEARCH SEMINARS AND CONFERENCES

- 2019 International Seminar on Biodiversity and Evolution of Mollusks organized by the Russian Far East Malacological Society (RFEMS) and A.V. Zhirmunsky National Scientific Center of Marine Biology FEB RAS (NSCMB) with support of the University Museum of Bergen (University of Bergen), P.P. Shirshov Institute of Oceanology RAS and ForBio–ResearchSchoolinBiosystematics (Norway).
Poster presentation: “Going in depth into the evolutionary relationships between two species of the genus *Gibbula* s.l.”
- 2017 Young Systematists’ Forum organized by the Systematics Association, National History Museum of London. Poster presentation: “From molecular to morphological data to unravel the European *Asterina* knot”.
- 2017 Molluscan Forum organized by the Malacological Society of London, National History Museum of London. Oral presentation “Historical dynamics of two top shell species in the Mediterranean and Black seas”.
- 2016 IX Jornadas del Departamento de Biodiversidad y Biología Evolutiva. Museo Nacional de Ciencias Naturales. Oral presentation: “Expansión y reencuentro de dos especies de tróquidos en el Mediterráneo y el mar Negro”.
- 2015 VIII Jornadas del Departamento de Biodiversidad y Biología Evolutiva. Museo Nacional de Ciencias Naturales. Oral presentation: “Comparación de la estructura poblacional de dos especies de invertebrados marinos en el Mar Adriático”.
- 2013 VI Jornadas del Departamento de Biodiversidad y Biología Evolutiva. Museo Nacional de Ciencias Naturales. Poster presentation: “Estudio poblacional de *Gibbula divaricata* (Gastropoda, Trochidae) y *Cladocora caespitosa* (Scleractinia, Incertidae Sedis) en el mar Mediterráneo y mar Negro.”
- 2012 I Congreso Ibérico de Sistemática Animal, held at and organized by the Universidad Autónoma de Madrid. Oral presentation: “Diferenciación del género *Asterina* Nardo, 1834 en el Paleártico occidental”.

EXPERIENCE SUPERVISING FINAL DOCTORAL THESIS AND/OR FINAL YEAR PROJECTS

- 2020-2021: Academic tutor of the Master final thesis titled: Genetic structure of the endangered coral *Cladocora caespitosa* matches the main bioregions of the Mediterranean Sea. Codirector: Annie Machordom. Entity:

Universidad Internacional Menéndez Pelayo and Consejo superior de investigaciones científicas.

Supervisor of internships in the Museo Nacional de Ciencias Naturales and Universidad Autónoma de Madrid, teaching laboratory skills. Student: Alumna: Olivia Martínez Ruíz. Duration 130 hours.

COURSES AND WORKSHOPS ATTENDED

2020: “Geography applied to natural sciences” held and organized by the Laboratorio de Biogeografía informática in the Museo Nacional de Ciencias Naturales (MNCN-CSIC). Duration 10 hours.

2019: “Course on Systematics, Morphology and Evolution of Marine Molluscs” held and organized by the Far-Eastern Malacological Society. Vladivostok (Russia). Duration 6 days.

“How to plan, design and present presentations and scientific conferences”, organized by the CSIC. Duration 25 hours.

“I Conference for doctoral students of the CSIC” organized by the postgraduate and specialization department of the CSIC. Duration 10 hours.

“Pitching tools for presentations” organized by the CSIC. Duration 20 hours.

2017: “A dozen lectures in statistical phylogenetics”, held at and organized by the Real Jardín Botánico de Madrid (RJB-CSIC). Duration: 13 hours.

2016: “Buenas prácticas científicas”, held at and organized by the Universidad Autónoma de Madrid. Duration: 2 hours.

“Refworks: gestor bibliográfico”, held at the Universidad Autónoma de Madrid and organized by the Biblioteca UAM. Duration: 2 hours.

“Atención al público en inglés online”, an online course organized by the CSIC. Duration: 30 hours.

“Curso especialización: Los sistemas de información geográfica y la teledetección. Ciencias instrumentales y técnicas de investigación”, held at and organized by the Centro Ciencias Humanas y Sociales (CCHS-CSIC). Duration: 70 hours.

“Teorías y cosas. Introducción a la epistemología de la ciencia”, held at and organized by the Universidad Autónoma de Madrid. Duration: 4 hours.

2015: “Identificar lo más citado de WOS con Essential Science Indicators (nueva version)”, an online WebEx course, organized by the Fundación Española para la ciencia y la tecnología (FECYT) of the Ministerio de Economía y Competitividad. Duration: 1.5 hours.

“Recursos electrónicos en Ciencias”, course held at and organized by the Universidad Autónoma de Madrid. Duration: 2 hours.

“Latest developments in landscape genetic analysis, simulation and connectivity modeling” course held at the Museo Nacional de Ciencias Naturales (MNCN-CSIC) and organized by Departamento de Biodiversidad y Biología Evolutiva. Duration: 30 hours.

“Análisis ráster con ArcGIS”, held at the Museo Nacional de Ciencias Naturales (MNCN-CSIC) and organized by the Departamento de Biodiversidad y Biología Evolutiva. Duration: 10 hours.

CoCoNET workshop on connectivity, held at the Endoume Marine Station in Marseille.

CoCoNET final meeting, held at the Università del Salento, Edificio Sperimentale Tabacchi in Lecce, Italy.

2014: “Filogenia Molecular”, held at the Museo Nacional de Ciencias Naturales (MNCN-CSIC) and organized by the Sociedad de Amigos del Museo. Duration: 50 hours.

“Formación en Prevención de Riesgos Laborales. Formación teórico-práctica de lucha contra incendios”, held at the Museo Nacional de Ciencias Naturales (MNCN-CSIC) and organized by the Sociedad de prevención ASEPEYO. Duration: 3 hours.

“Prevención de Riesgos Laborales. Primeros auxilios”, held at the Museo Nacional de Ciencias Naturales (MNCN-CSIC) and organized by ASPY Formación. Duration: 3 hours.

2013: “Aspectos ambientales de la organización Módulo que forma parte del certificado de profesionalidad de Sistemas de Gestión Ambiental de la Comunidad de Madrid”, organized by the Centro de formación CSIT Unión Profesional. Duration: 180 hours.

“Sistemas de gestión ambiental. Módulo que forma parte del certificado de profesionalidad de Sistemas de Gestión Ambiental de la Comunidad de Madrid”, organized by the Centro de formación CSIT Unión Profesional. Duration: 150 hours.

2012: Workshop on “Cartografía de los hábitats de los fondos marinos europeos para una mejor gestión: avances, necesidad y aplicaciones”, held at the Ministerio de Agricultura, Alimentación y Medio Ambiente and organized by the Instituto Español de Oceanografía. Duration: 4 hours.

2010: “Seguimiento de especies amenazadas mediante foto-trampeo”, held at the Universidad Complutense de Madrid and organized by the Máster Biología de la Conservación. Duration: 2 hours.

PUBLIC ENGAGEMENT/OUTREACH

2021: Speaker at the event “**Noche Europea de los investigadores**”, held at and organized by the Museo Nacional de Ciencias Naturales. At this event, the general public visiting the museum that day were able to know about the type of work that I perform in the lab and the projects I am involved with, specially I talked about marine alien species.

2020: Finalist of the contest “I investigate I am CSIC”.

Speaker at the event “**Noche Europea de los investigadores**”, held at and organized by the Museo Nacional de Ciencias Naturales. At this event, the general public visiting the museum that day were able to know about the type of work that I perform in the lab and the projects I am involved with.

2019: Participation in the contest “I investigate I am CSIC” showing my PhD project in a three minutes video. Organized by the postgraduate department of the CSIC. <https://www.youtube.com/watch?v=Tp7YgmzGT2M>

Proyecto Ciudad Ciencia del CSIC y la Fundación Española para la Ciencia y la Tecnología (FECYT) con la actividad “¿Dónde están las científicas?” I provided assistance with the event held in Mota del Cuervo (Cuenca) where three sessions of the activity were performed, two for school audiences and one for family audiences where I showed the type of work done by the scientists and talk about aspects related to the development of my doctoral thesis.

2018: **II Jornadas científicas del Museo Nacional de Ciencias Naturales.** I provided assistance with the event and served as a judge of the oral presentations.

“**Inspiringgirls: Niñas sin Límites, Ciencia del Futuro**”, funded by the Fundación Inspiring Girls. I participated in this event by showing the type of work scientists perform in the lab to 60 girls from the secondary school IES Joaquín Turina de Madrid.

2017: Speaker at the event “**Semana de la Ciencia: Embajadores y Embajadoras del la ciencia**”, held at the Museo Nacional de Ciencias Naturales and organized by the MNCN project Hypatia. In my talk, I highlighted the importance of women in science and the need for projects aimed at developing the scientific interest of girls.

Speaker at the event “**Noche Europea de los investigadores**”, held at and organized by the Museo Nacional de Ciencias Naturales. At this event, the general public visiting the museum that day were able to know about the

type of work that I perform in the lab.

Speaker at the seminar “**Embajadores y Embajadoras de la ciencia**”, held at the Museo Nacional de Ciencias Naturales and organized by the MNCN project Hypatia. I participated in this event by showing my personal and professional experience as a PhD.

Speaker at the event “**Semana de las mujeres 2017: Más mujeres en la ciencia, un mundo mejor**”, held by the Torrejón de Ardoz city hall and organized by the Community of Madrid, the Consejería de Políticas Sociales y Familia and the city of Torrejón de Ardoz as part of a program against gender violence and for the promotion of equal opportunities for men and women, particularly in the sciences.

2016: Speaker at the workshop “**Pregúntale al experto**”, held at the Museo Nacional de Ciencias Naturales and organized by the Departamento de Comunicación at the MNCN–CSIC. At this event, the general public visiting the museum that day were able to have their questions answered by the “experts”.

OTHER MERITS

LABORATORY SKILLS

- Molecular Biology: DNA extraction, primer design, PCR amplification, cloning, DNA quantification, preparation of samples for sequencing
- Analysis of sequence chromatograms, sequence alignment and matrix preparation
- Phylogenetic and phylogeographic analyses
- Population genetic structure analyses. Development and isolation of microsatellite markers based on Next Generation Sequencing (NGS) technologies

SPECIALIZED EQUIPMENT

- Leica MZ 16 A stereomicroscope and associated cameras and the Nikon ds F1 camera
- OLYMPUS SZH 10 stereomicroscope
- ZEISS 66649 compound light microscope

COMPUTER PROGRAMS/SOFTWARES

- Windows operating system (all versions) and Mac OS
- Microsoft Office package: Word, Excel, Access and PowerPoint
- Internet and email management
- Statistical programs: Statistica and SPSS
- Geographic information systems (GIS): Arcview, gvSIG and DivaGIS
- Seascape genetics: UNICORN
- Phylogenetic reconstruction programs: PAUP, PAST, PHYLIP, BEAST, MrBayes and MEGA
- NGS sequence analysis programs: DNASTAR Lasergene
- Programs for analysis of molecular markers (STRs): QDD-Galaxy, Primer3, MSATCOMMANDER, RepeatMasker
- Programs to determine phylogenetic relationships and to search for population parameters: GENEMAPPER, GENEPOP, GENALEX, GENESTAT, ARLEQUIN, CONVERT, CREATE, NTSYS, POPGENE and STRUCTURE
- Programs to search for and compare sequences: BLAST and GenBank (NCBI)
- Bibliography management: Endnote X7
- Imaging programs: Corel PHOTO-PAINT X4 and Adobe Photoshop CS4
- Optical microscopy imaging programs: NIS-Elements and LAS-Images

LANGUAGES

English: high reading level; intermediate conversational level
Certification by the Real Sociedad Económica Matritense de Amigos del País (1998)
Certification by the Escuela Oficial de Idiomas (2003)

OTHER ACTIVITIES

- PADI certified open water diver, last certified in June 2017.

- Member of the scientific/technical team of the “ARSA 11/2013” sampling campaign, aboard the oceanographic vessel “Miguel Oliver”. November 2013.
- Internship at the Zoo-Aquarium of Madrid under the project “Relación materno-filial en el Delfín Mular”, in which I helped to monitor bottlenose dolphin offspring during their first year of life. 2007.