

# PROFESORADO DE UNIVERSIDADES Y CENTROS DE INVESTIGACIÓN

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## DATOS DE IDENTIFICACIÓN Y CONTACTO

**APELLIDOS:** GARCÍA LUQUE

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**NOMBRE:** ENRIQUE

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**DIRECCIÓN POSTAL:** Polígono Ría San Pedro s/n Puerto Real (Cádiz) 11510

**TELÉFONO DE CONTACTO:** 956016497

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**CATEGORÍA LABORAL:**

Profesor Titular de Universidad

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**FORMACIÓN ACADÉMICA:** Doctor en Ciencias Químicas

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**INSTITUCIÓN**

Universidad de Cádiz

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## EXPERIENCIA DOCENTE

**FECHA DE ANTIGÜEDAD EN LA INSTITUCIÓN:** 15/02/2001

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**TITULACIONES EN LAS QUE HA IMPARTIDO  
DOCENCIA EN LA UCA:**

Licenciatura y Grado en Ciencias del  
Mar  
Licenciatura y Grado en Ciencias  
Ambientales  
Grado en Ciencias Químicas  
Máster Erasmus Mundus  
Máster en GIAL  
Máster en Oceanografía

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**Nº DE QUINQUENIOS:** 3

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**ACREDITACIÓN POR AGENCIAS DE CALIDAD:**

Titular de Universidad por AGAE y ANECA

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## EXPERIENCIA INVESTIGADORA

**LÍNEAS DE INVESTIGACIÓN:**

Estuarios; Ciclo del CO<sub>2</sub> en el Océano; Ciclos de Nutrientes; Metales; Modelización en Laboratorio, Ecotoxicología.

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**RESULTADOS RELEVANTES: (Proyectos de investigación, publicaciones, aportaciones en congresos, etc.)**

## 1) Publicaciones

1. García-Luque, E., Forja, J.M., DelValls, T.A., Gómez-Parra, A. 2003. The behaviour of heavy metals from the Guadalquivir estuary after the Aznalcollar mining spill: field and laboratory surveys. *Environmental Monitoring and Assessment*, 83: 71-88.
2. Riba, I., García-Luque, E., Blasco, J., DelValls, T.A. 2003. Bioavailability of heavy metals bound to estuarine sediments as a function of pH and salinity values. *Chemical speciation and Bioavailability*, 15(4): 101-114.
3. García-Luque, E., Sáenz, I., Riba, I., DelValls, T.A., Forja, J.M., Gómez-Parra, A. Heavy metals at the Guadalquivir estuary. 2003. *Ciencias Marinas*, 29(4): 457-468.
4. García-Luque, E., Ortega, T., Forja, J.M., Gómez-Parra, A. Using a laboratory simulator in the teaching and study of chemical processes in estuarine systems. 2004. *Computers & Education*, 43: 81-90.
5. García-Luque, E., DelValls, T.A., Casado-Martínez, C., Forja, J.M., Gómez-Parra, A. 2004. Simulating a heavy metal spill under estuarine conditions: effects on the clam *Scrobicularia plana*. *Marine Environmental Research*, 58: 671-674.
6. García-Luque, E., Forja, J.M., Gómez-Parra, A. 2005. Quantification of laboratorysimulated water-atmosphere CO<sub>2</sub> fluxes in estuaries. *Ciencias Marinas*, 31(1): 125-133.
7. García-Luque, E., Forja, J.M., Gómez-Parra, A. 2005. Characterization of atmospherewater exchange processes of CO<sub>2</sub> in estuaries using dynamic simulation. *Journal of Marine Systems*, 58: 98-106.
8. García-Luque, E., Forja, J.M., Gómez-Parra, A. 2006. Assessing the reactivity of inorganic phosphorus along estuaries by means of laboratory simulation experiments. *Hydrological Processes*, 20: 3555-3566.
9. García-Luque, E., DelValls, T.A. Forja, J.M., Gómez-Parra, A. 2007. Biological adverse effects on bivalves associated with trace metals under estuarine environments. *Environmental Monitoring and Assessment*, 127: 27-35.
10. Nair, D., Fernández-Acero, F.J., García-Luque, E., Riba, I., Del Valls, T.A. 2008. Isolation and characterization of naphthalene degrading bacteria from sediments of Cádiz area (SW Spain). *Environmental Toxicology*, 23: 576-582.
11. Jiménez-Tenorio, N., Salamanca, M.J., García-Luque, E., González De Canales, M.L., Sarasquete, M.C., DelValls, T.A. 2008. Chronic bioassay in benthic fish for the assessment of the quality of sediments in different areas of the coast of Spain impacted by acute and chronic oil spills. *Environmental Toxicology*, 23: 634-642.
12. Garg, A., Antón-Martín, R., García-Luque, E., Riba, I., DelValls, T.A. 2009. Distribution of butyltins (TBT, DBT, MBT) in sediments of Gulf of Cádiz (Spain) and its bioaccumulation in the clam *Ruditapes philippinarum*. *Ecotoxicology*, 18: 1029-1035.
13. García-Luque, E., González-Mazo, E., Forja, J.M., Gómez-Parra, A. 2009. Use of dynamic simulation to assess the behaviour of linear alkylbenzene sulfonates and their biodegradation intermediates (sulfophenylcarboxylic acids) in estuaries. *Estuarine, Coastal and Shelf Science*, 81: 353-358.
14. García-Luque, E., González-Mazo, E., Lara-Martín, P., Forja, J.M., Gómez-Parra, A. 2010. Aerobic biodegradation of linear alkylbenzene sulfonates and sulfophenylcarboxylic acids for different salinity values by means of continuous assays. *Environmental Monitoring and Assessment*, 162: 417-425.
15. Riba, I., García-Luque, E., Maz-Courrau, A., González De Canales, M.L., DelValls, T.A. 2010. Influence of salinity in the bioavailability of Zn in sediments of the Gulf of Cádiz. *Water, Air and Soil Pollution*, 212 (1-4): 329-336.
16. Guerra, R., Dinelli, E., Righi, S., Forja, J.M., García-Luque, E. 2010. Sediment Geochemistry and accumulation rates in the northeastern shelf of the Gulf of Cádiz (SW Iberian Peninsula). *Scientia Marina*, 74 (S1): 67-76.

17. Guerra, R., Righi, S., García-Luque, E. 2015. Modern accumulation rates and sources of organic carbon in the NE Gulf of Cádiz (SW Iberian Peninsula). *Journal of Radioanalytical and Nuclear Chemistry*, 305: 429-437.

**2) Aportaciones en Congresos.** Ha participado en una treintena de congresos, entre los que cabría destacar:

1. DelValls, T.A., Forja, J.M., García-Luque, E., Sáenz, I., Riba, I., Gómez-Parra, A. "Transport and chemical reactivity of nutrients and heavy metals in the Guadalquivir Estuary (SW Spain): Simulation and field assessment. Summer Meeting-ASLO. Copenhagen, Denmark. 2000.
2. García-Luque, E., Forja, J.M., Gómez-Parra, A. "Characterization of the phosphorus reactivity in estuaries by simulation techniques". International Conference on Integrated Coastal Area Management and its Integration with Marine Sciences. Saint Petersburg, Russia. ICAM. 2000.
3. García-Luque, E., Forja, J.M., Gómez-Parra, A. "Heavy metal speciation in the Guadalquivir Estuary by means of semiempirical models". 11th Annual Meeting of SETAC Europe. Madrid, Spain. 2001.
4. García-Luque, E., Forja, J.M., Gómez-Parra, A. "Assessment of the chemical reactivity of inorganic carbon in estuaries by means of dynamic mixing lab simulation". XI Seminario Ibérico de Química Marina. University of Algarve, Portugal. 2002.
5. García-Luque, E., Ortega, T., Forja, J.M., Gómez-Parra, A. "The use of a laboratory simulator for the study and teaching of the chemical processes in estuarine systems". CAL'03. 21st Century Learning. Belfast, United Kingdom. Queen's University of Belfast. 2003.
6. García-Luque, E., DelValls, T.A., Casado-Martínez, C., Forja, J.M., Gómez-Parra, A. "Simulating a Heavy Metal Spill under Estuarine Conditions: Effects on Clam *Scrobicularia Plana*". 12th International Symposium Pollutants Responses in Marine Organisms (PRIMO 12). University of Florida. 2003.
7. García-Luque, E., Forja, J.M., González-Mazo, E., Gómez-Parra, A. "Employ of simulation in the assessment of LAS reactivity in estuaries". XII Seminario de Química Marina. University of La Coruña, Spain. 2004.
8. Antón-Martín, R., Garg, A., García-Luque, E., DelValls, T.A. TBTs in marine sediments from the Gulf of Cadiz. XIII Seminario de Química Marina. University of Lisbon, Portugal. 2006.
9. Garg, A., Antón-Martín, R., García-Luque, E., Riba, I., DelValls, T.A. Distribution and comparison of butyltins (TBTs, DBTs, MBTs) in sediments of Gulf of Cadiz (SW Spain) and Zuari Estuary (West Coast of India). (CEMEPE) Conference on Environmental Management, Engineering, Planning and Economics. Universidad de Thessaly, Greece. 2007.
10. Nair, D., Fernández-Acero, F.J. García-Luque, E., Riba, I., DelValls, T.A. Characterization of naphthalene degrading bacteria isolated from coastal sediments from Cadiz area (SW Spain). 13th International Symposium on Toxicity Assessment (ISTA 13). Toyama Prefectural University, Japan. 2007.
11. Jiménez-Tenorio, N., Salamanca, M.J., García-Luque, E., González de Canales, M.L., Sarasquete, M.C., DelValls, T.A. Chronic bioassay in benthic fishes. Comparison between acute and chronic spill. 13th International Symposium on Toxicity Assessment (ISTA 13). Toyama Prefectural University, Japan. 2007.
12. Riba, I., García-Luque, E., Kalman, J., Blasco, J., Vale, C. Effects of sediments acidification on the bioaccumulation of Zn in *Ruditapes philippinarum*. University Fernando Pessoa (Porto), Portugal. 2008.
13. Guerra, R., Dinelli, E., Righi, S., Forja, J.M., García-Luque, E. Accumulation rates and

geochemistry of sediments in the northeastern shelf of the Gulf of Cadiz (SW Iberian Peninsula). XIV Seminario de Química Marina, University of Cadiz, Spain. 2008.

14. Guerra, R., Righi, S., García-Luque, E. Sediment accumulation rates in the continental shelf of Cádiz (SW Iberian Peninsula). ESF-FWF Conference in Partnership with LFUI Submarine Paleoseismology: The Offshore Search of Large Holocene Earthquakes. ESF. Obergurgl, Austria. 2010.
15. Diaz-Garduño, B, Perales, J.A.,Manzano, M.A., García-Luque, E., Garrido, C., Martín-Díaz, M.L. Ecotoxicological assessment of wastewater effluents in marine environments: before and after Advanced Oxidation Process (POA) and Photobiodepuration Treatment. IV Congress of Marine Sciences, University of Las Palmas de Gran Canaria, Spain. 2014.

**3) Proyectos de Investigación.** Ha formado parte del equipo científico de 24 proyectos/contratos de investigación, entre los que cabría resaltar:

1. C, N and P biogeochemical fluxes in litoral systems: impact of the intensive aquaculture and urban sewages. Project Reference: REN2001-3577/MAR. Funding Agency: Ministry of Science and Technology (Spain). Researcher in chief: Dr. Jesús M. Forja, University of Cadiz. 2001-2003.
2. Characterization of dredged material optimized for environmental quality evaluation integrated method. Project Reference: REN2002-01699/TECNO. Funding Agency: Ministry of Science and Technology (Spain). Researcher in chief: Dr. T. Ángel delValls, University of Cadiz. 2002-2005.
3. Littoral areas of green-house gases emission: influence of coastal input and benthic production. Project Reference: CTM2005-01364/MAR. Funding Agency: Ministry of Science and Technology (Spain). Researcher in chief: Dr. Jesús M. Forja, University of Cadiz. 2006-2008.
4. Design and development of a mobile structure for the environmental risk assessment of residual water treatment plant effluents discharged in marine ecosystems. Project Reference: CTM2012-37591. Funding Agency: Ministry of Science and Technology (Spain). Researcher in chief: Dra. M. Laura Martín-Díaz, University of Cadiz. 2013-2015.

**4) Conferencias invitadas:**

1. The Aznalcollar mining spill. November 2005. Departmental Seminar, University of La Laguna (Tenerife), Spain.
2. Development and applications of a dynamic mixing simulator for the study of the chemical reactivity in estuaries. March 2007. Departmental Seminar, Centro Interdipartimentale di Ricerca, University of Bologna, Italy.
3. Oil Spills and the Impact of the ship PRESTIGE on the Spanish Northern coastal area. April 2008. Departmental Seminar, Centro Interdipartimentale di Ricerca, University of Bologna, Italy.
4. Characterization of naphthalene degrading bacteria from sediments of Cádiz area (SW Spain). May 2010. Departmental Seminar, Centro Interdipartimentale di Ricerca, University of Bologna, Italy.
5. Pilot testing of solar photocatalytic water disinfection in rural areas in Peru. May 2011. Departmental Seminar, Centro Interdipartimentale di Ricerca, University of Bologna, Italy.

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**Nº DE SEXENIOS: 2**

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**INFORMACIÓN ADICIONAL**

Ha desempeñado el cargo de Director General de Relaciones Internacionales y  
Comunicación de la Universidad de Cádiz (Julio 2001-Abril 2015)

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