

## ***Curriculum Vitae***

### **1. PERSONAL DETAILS:**

Name: Dulce María Arias Lizárraga  
Date of birth: July 26, 1989. Concordia, Sinaloa, México.  
Nationality: Mexican.

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### **2. EDUCATION:**

- 2014- PhD. Environmental Engineering, Universitat Politècnica de Catalunya (UPC), Barcelona, Spain.
- 2012-2014 Msc. Sustainable Fisheries. Instituto Tecnológico de Mazatlán (ITMAZ). Mazatlán, Sin. Mexico.
- 2007-2011 Bsc. Biochemical Engineering. Specialization in Environmental Sciences. Instituto Tecnológico de Mazatlán (ITMAZ). Mazatlán, Sin. Mexico.

### **3. PARTICIPATION IN RESEARCH PROJECTS / WORK EXPERIENCE**

2012-2013 Standardization of method for determination of biochemical oxygen demand (BOD) in brackish water. Financed by the cooperation project: Instituto Tecnológico de Mazatlán-LAQUIN S. A. de C. V.

2011 Study of water quality in groundwater of the site of the project: "Development Caimaneros in El Rosario, Sinaloa, Mexico." Environmental Services and Water Treatment Systems.

2010-2011 Design of a treatment system for wastewater generated in the production of fishmeal. Instituto Tecnológico de Mazatlán. Financed by Dirección General de Educación Superior Tecnológica (DGEST).

#### **4 PUBLICATIONS IN REFEREED JOURNALS**

**Arias-Lizarraga, D. M.**, Mendez-Gomez, E., "Removal of solids from wastewater from fishmeal industry" (in Spanish). *Water Technology and Sciences*. Vol. V, No. 3, May-June, 2014, pp. 114- 124

#### **5 PRESENTATIONS**

**Arias-Lizarraga, D. M.**, Mendez-Gómez, E., Rivas-Montaño, A., Cortes-Ruiz, J. 2013 "Recovery of organic matter in the wastewater of fishmeal industry". Oral presentation at the First Meeting of Young Researchers. Mazatlan, Sinaloa, Mexico.

Mendez-Gómez, E., **Arias-Lizarraga, D. M.**, Tirado-Flores, L., Rivas-Montaño, A., Fariás-Sanchez, J. 2013 "Evaluation of the capacity of a microbial consortium halophilic-halotolerant for biochemical oxygen demand (BOD<sub>5,20°C</sub>) measuring in brackish water." Oral presentation at the V Symposium of Aquacultural and Marine Research in the Mexican Tropical Pacific. Manzanillo, Colima, Mexico.

**Arias-Lizarraga, D. M.**, Mendez-Gómez, E. 2012. "Obtention of chitosan from shrimp waste and its evaluation for organic matter recovery in bloodwater and stickwater generated by fishmeal industry." Oral presentation at the National Meeting of Agricultural, Aquacultural and Fisheries Research and Innovation. Querétaro, Mexico. September 10-13.

**Arias-Lizarraga, D. M.**, Mendez-Gómez, E. 2012. "Recovery of organic matter in the pre-treatment of wastewater generated in fishmeal industry". Oral presentation at the VI Scientific Forum of Fisheries. National Institute of Fisheries and Aquaculture. Tuxtla Gutierrez, Chiapas, Mexico. May 22-24.

#### **6 COMPLEMENTARY COURSES AND SEMINARS**

2013 Symposium of Environmental Law: Climate, Environmental Research and Education Change in the State of Sinaloa. In Culiacan, Sinaloa, Mexico. Organized by the Commission of Ecology. LX Legislature of the Congress of the State of Sinaloa. September 25-27.

2013 Modeling and simulation of wastewater treatment plants using GPS-X. Aerobic and anaerobic processes. Universidad Autonoma de San Luis Potosi in collaboration with CITRA. 30 hours course. San Luis Potosi, SLP, Mexico. January.

2012 Experimental design and statistical analysis for the development of new products and processes. 12 hours course. Mazatlan, Sinaloa. October 29 and 30.

2012 Introduction to molecular cytogenetics: FISH-CISH, 16 hours course. Mexican Society of Genetics. Sinaloa, Mexico. October 3-5.

2010 Assistance to the 7th National Meeting of Biotechnology, Instituto Politecnico Nacional, Mazatlan, Mexico. October 11-13.

## **7 HONORS AND AWARDS**

2014- Scholarship from National Council on Science and Technology (CONACYT), for PhD studies.

2014 Honorable Mention in the Master Thesis: "Experimental evaluation of the removal efficiency of organic matter using chitosan-sodium alginate and chitosan-tannic acid in the pre-treatment of wastewater generated in fishmeal industry" (ITMAZ).

2012 - 2014 Scholarship from the Direccion General de Educacion Superior Tecnologica (DGEST) for Master studies.

2010 - 2011 Fellowship for Scientific and Technological Activities in Research Projects and Technological Development. Ministry of Public Education (SEP).

2008 - 2011 Scholarship from Ministry of Public Education (SEP) for undergraduate studies.

## **8 LANGUAGE SKILLS**

**Spanish** Native

**English** TOEFL B2

**French** DELF B1

## **9 REVIEWING FOR PROFESSIONAL JOURNALS**

Ad-hoc reviewer: Journal of Aquatic Food Product Technology

## **10 OTHER ACTIVITIES**

2012 Member of the Organizing Committee of the National Congress of Genetics 2012. Mexican Society of Genetics. Sinaloa, Mexico.

2012 Member of the Organizing Committee of the course "Introduction to molecular cytogenetics: FISH-CISH" at the National Congress of Genetics 2012. Sinaloa, Mexico.