

# RAÚL MUÑOZ CASTILLO

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## PROFILE

- Education: PhD Geographical Sciences (Candidate); Master's in International Business Administration (MIBA); Bachelors in Environmental Sciences and Engineering.
- Professional Experience (13 years): Climate Change Mitigation and Adaptation, GHG Monitoring and Reporting; Environmental Management and Sustainability; Project Development and Management; and International Investments, Business and Finance.
- Language skills: Spanish (mother tongue). Fluent in Portuguese and English.

## EDUCATION

**University of Maryland (UMD)**

**PhD in Geographical Sciences**

- Concentrations: Global Change and Sustainability

**College Park, MD**

**Candidate**

**Center of Economic and Trade Studies (CECO)**

**Spanish Foreign Trade Institute (ICEX)**

**Masters in International Business Administration (MIBA)**

- Concentrations: International Business and Investments

**Madrid, Spain**

**July 2008**

**University of Granada**

**Bachelors in Environmental Sciences and Engineering**

**Granada, Spain**

**September 2002**

## EMPLOYMENT

**Inter-American Development Bank (IADB)**

**Environmental Specialist**

**Environmental and Social Safeguards (VPS/ESG)**

**Washington, DC**

**September 2015- present**

- Working within Project Teams as Environmental Specialist in the review and appraisal of new loan proposals, including the identification of potential environmental and social impacts, risk and issues, as well as adequate mitigation measures in compliance with the IDB Environmental and Social Safeguards (Sectors: Energy, Oil and Gas, Industry, Water and Sanitation).
- Technical assistance and support to both internal and external clients on mainstreaming sustainability into project and policy design, including country strategies and investment programs.
- Development of new approaches, guidance, and knowledge products, undertake project reviews, and dissemination of products and results to build capacity amongst clients and stakeholders.
- Focal point at VPS/ESG for the Water-Energy-Food Security Nexus working group led by INE.

**Inter-American Development Bank (IADB)**

**Climate Change Adaptation and Environmental Specialist**

**Water and Sanitation Division (INE/WSA)**

**Washington, DC**

**November 2010 –September 2015**

- Identification of project opportunities and technical assistance for mainstreaming Climate Change Adaptation into Bank's water related operations and technical support to Bank's clients for sustainable and adaptive water resource management and investments planning.
- Coordinating the Regional Policy Dialog for Water and Climate Change Adaptation (partnership with WB, IUCN and UN Habitat).

- Designing and management of a USD 12 million grant under the EU's Latin American Investment Facility (LAIF) for resilient and adaptive infrastructure projects in the Water Sector ("smart infrastructure").
- Co-leading the IADB agenda for the Water-Energy-Food Security Nexus, a INE's collaborative effort for cross-cutting applied research on multi-sectoral programmatic approaches for policy making and infrastructure planning.
- Co-leading the Regional Integrated Model of Climate Change and Water Resources for LAC (Hydro-BID and its application in different Bank's client countries (Peru, Argentina, Brazil,
- Preparation of the Climate Change Adaptation Plans for the Water Sector in LAC: droughts (Peru), glacial melting runoff (Ecuador), SLR and coastal impacts (Guyana, Honduras, Trinidad and Tobago) and floods (Uruguay, Haiti, Nicaragua), among others.
- Working in partnership with the WB on the development of a new initiative for the application of remote sensing tools on WRM and water management infrastructure projects, including the design of a TC project for the adaptive management of green infrastructure (tropical wetlands) by using RS datasets.
- Providing technical advisory to the IDB's Emerging and Sustainable Cities Initiative on climate change adaptation and water related infrastructure development.
- Environmental specialist for several infrastructure loans of WSA (Projects: water and sanitation, flooding alleviation and drainage, IWRM, irrigation, solid waste).

**Inter-American Development Bank (IDB)  
Climate Change Adaptation and Environmental Consultant  
Water and Sanitation Division (INE/WSA)**

**Brasilia, Brazil  
May 2009 – November 2010**

- Supported definition of projects for the pipeline in the WSA Division in Brazil by the identification of new opportunities of loan operations and TCs, specially related to Climate Change and Sustainability.
- Technical support on energy efficiency and GHG mitigation for the WOP (Water Operators Partnership) Program launch in Brazil.
- TC Projects design: Sustainable Development Plan of the Sepetiba Bay; National Plan for Water Resources and Water Quality in Brazil; IWRM Plan for the Rio Grande do Sul.
- Providing technical support and guidance to internal and external clients in specific environmental issues related with project preparation and execution (Projects: water and sanitation, flooding alleviation and drainage, IWRM, irrigation, solid waste);.

**Economic and Commercial Office of Spain, Spanish Embassy  
Focal Point, Environment and Sustainable Development Sector**

**Brasilia, Brazil  
September 2008 –October 2010**

- Responsible for the identification of investment projects and investment opportunities for Spanish companies in environmental sectors (Renewable Energy and Climate Change; Environmental Impact Assessment, Sustainable Development, Water and Sanitation,).
- In charge of researching and designing effective strategies for the establishment of Spanish companies in Brazil within environmental sectors by analyzing client's needs and goals and advising them throughout the establishment process.
- Preparation of market research for environmental sectors in Brazil, among others, Climate Change.

**SGS-Tecnos, S.A.**  
**National Manager, Climate Change Area, Environment Division**

**Madrid, Spain**  
**January 2007 - January 2008**

- Product Development for the Spanish Market: GHG emissions verifications, baseline studies, emission inventories, uncertainty studies, GEI emission permits under the EU ETS system.
- In charge of the International SGS's GHG Accreditation under the European Union Emissions Trade Scheme – EU ETS – at national scale (leading a team of 20 GHG verifiers/ auditors).
- Supporting the European Environmental Regional Division, leading GHG monitoring and mitigation projects in Portugal, Mozambique and throughout North African countries such as Morocco, Tunisia, Algeria and Egypt under the World Business Council of Sustainable Development system.
- Identifying new CDM Project opportunities (Sectors: Energy, Oil and Gas, Solid Waste and Industry).

**SGS-Tecnos, S.A.**  
**Regional Manager (South Spain), Environment Division**

**Madrid -Granada, Spain**  
**October 2005 – January 2008**

- Product developer for the Environment and Health Division in South of Spain and technical coordinator of both Environmental Consultancy and Technical Inspections teams.
- Leading environmental consultancy projects for clients in the industrial, energy, oil and gas and infrastructure sectors; including: Environmental Impact Assessments; Environmental Management and Planning; Environmental Monitoring Networks design; Cleaning and Management of Contaminated Sites including projects according the European Framework for Land Protection; Solid Waste Management; Integrated Environmental Permissions by the European IPPC (Integrated Pollution Prevention and Control Directive) and the E-PRTR (Pollutant Release and Transfer Register); and GHG mitigation.
- Leading environmental Technical Inspection projects for clients in the industrial, energy, oil and gas and infrastructure sectors, such us: air pollution (emission and ambient air) and water quality monitoring and control; modeling of noise, water and air quality; soils pollution monitoring and control; solid waste sampling and analysis.
- Environmental Auditor for ISO 14001 and EMAS (Eco-Management and Audit Scheme of the EU) systems implementations (public and private sector).

**Eurocontrol, S.A.**  
**Consultant – Auditor, Environmental Division**

**Madrid-Granada, Spain**  
**June 2003 – October 2005**

- Development of consultancy projects for public and private clients, including: Environmental Impacts Assessments, Environmental Management, Natural Resource Management, Agenda 21 Programs, Solid Waste Projects.
- Environmental inspection (air, water and noise pollution monitoring and control).
- Coordination of the Accreditation by ISO 17025 for the Environmental National Laboratory (Water and Air quality parameters).

## SKILLS AND ADDITIONAL INFORMATION

### Papers and Publications

- Muñoz Castillo, R.** 2009. Market Research for the CDM and Carbon Market Sectors in Brazil. Spanish Institute for Foreign Trade (ICEX), official report. Brasilia, Brazil.
- Muñoz Castillo, R.** 2009. Market Research for the Renewable Energy Sector in Brazil, Spanish Institute for Foreign Trade (ICEX), official report. Brasilia, Brazil.
- Muñoz Castillo, R.** 2011. Integrated Water Resources Management: Adaptation to Climate Change in Latin America and the Caribbean, IADB, Drafted Technical Note, Brasilia, Brazil. (co-author)
- Muñoz Castillo, R.** 2012. Climate Services: A tool for adaptation to Climate Change in Latin America and the Caribbean, IADB, Drafted Technical Note, Brasilia, Brazil. (co-author)
- Muñoz Castillo, R.** 2013. Hydro-BID: An Integrated System for Modelling Impacts of Climate Change on Water Resources. IDB Technical Note. (co-author)
- Muñoz Castillo, R.** 2013. Hydro-BID case study: A Water Resource Model of the Rio Grande Basin in Argentina. IDB Technical Note (co-author)
- Muñoz Castillo, R.** 2014. Climate Change Adaptation Case Study: Climate change vulnerability and flooding impacts on the Pantanoso River Urban Catchment urban planning in Montevideo (Uruguay). IDB Technical Note. (co-author)
- Muñoz Castillo, R.** 2014. Climate Change Adaptation Case Study: Climate change impacts on Glacier Retreat and Mountain Hydrology and its implications for Quito's water supply system (Ecuador). IDB Technical Note. (co-author)
- Muñoz Castillo, R.** 2014. Climate Change Adaptation Case Study: Climate change impacts and droughts risk in Trujillo (Peru). IDB Technical Note. (co-author)
- Muñoz Castillo, R.** 2014. Climate Change Adaptation Case Study: Climate change and sea level rise impacts in Port-of-Spain (Trinidad and Tobago). IDB Technical Note. (co-author)
- Muñoz Castillo, R.** 2014. Climate Change Adaptation Case Study: Climate change and sea level rise impacts in La Ceiba (Honduras). IDB Technical Note. (co-author)
- Muñoz Castillo, R.** 2014. Climate Change Adaptation Case Study: Climate change vulnerability and flooding impacts in Managua (Nicaragua). IDB Technical Note. (co-author)
- Muñoz Castillo, R.** 2015. Global Assessment of Climate Change Impacts on Water Scarcity. WB, UMD and JGCRI (collaboration, work in progress)
- Muñoz Castillo, R.** 2015. Global Inequality and Carbon Footprints, UMD. (co-author)

### Courses Taught

- Several presentations about Climate Change Adaptation and Water Resources Management given in different IDB workshops and at several conferences (AIDIS, IDB Water Week, IWA, CODIA, WWW). 2011 to 2015.
- “CDMs and Carbon Markets in Brazil”. Seminar for Spanish companies hosted by the Spanish Embassy in Brazil. Brasilia, May 2009.
- “The Kyoto Protocol and GHG Emissions Verifications under the EU-ETS system”. Master Degree in Environmental Engineering, University of Granada. May 2006 and May 2007.

**Computer Skills:** Command of Microsoft Windows environment and Microsoft Office (Microsoft Word, Excel, etc.). Software: Autocad, ArcGIS, CADNA, IMMI, Erdas, FOCUS-PCI, Statgraphics, R, Python, SWAT, EPIC, Stella, Vensim.