

TANIA ROJAS CARBAJAL

Personal Information

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Date of birth: February 22, 1994

Citizenship: Peruvian

Resume

I've worked as a Teaching Assistant in the Department of Mathematics at PUCP, and Academic Coordination of the undergraduate course "Interdisciplinary Projects" in the Environmental and Civil Engineering departments at UTEC. I am currently working as Research Assistant and Formulation Analyst of Environmental Projects in the Water Research and Technology Center (Centro de Investigación y Tecnología del Agua - CITA) at UTEC. My responsibilities involve the coordination, budget and cost planning, and writing and analysis of proposals for research projects to national and international funding agencies such as CONCYTEC, USAID, NERC, among others. Moreover, the research areas of my interest are Ecohydrology, Aquatic Ecosystems, Hydrochemistry, and Wetlands Conservation and Management.

I am able to write effective internal communications that command attention and achieve results, and thrive in collaborative environments. Additionally, I am familiar with writing technical/legal/business reports, culturally sensitive and patient, very flexible and open to change, and extremely versatile in providing back-up support for other jobs.

Education

08/2011-12/2017 *BS in Civil Engineering*. Pontificia Universidad Católica del Perú (PUCP)

Professional Experience

12/2017-Present *Project Formulation Analyst*, Centro de Investigación y Tecnología del Agua (CITA), Universidad de Ingeniería y Tecnología (UTEC)

- Formulation of proposals related to environmental topics. My responsibilities are the analysis of award terms and conditions, documentation, forms, and requirements.
- Management of proposals submission to national and international funding agencies (e.g. USAID, Concytec, NERC, World Bank, Innóvate Perú, among others).
- Coordination for the formulation of the technical and economic proposal of the following research projects for national and international funds, as well as the management of administrative and financial documentation:

- “Scientific Assessment of River Form and Flow: Baseline Information for Infrastructure Guidelines in the Peruvian Amazon”, *USD 2'055,000*, Gordon and Betty Moore Foundation. **PI: Dr. Jorge D. Abad**

Summary: *The general objective is to understand the dynamics of water and sediment transport for the morphological description of Amazonian rivers and their interrelation with biodiversity and Amazonian communities. The specific objectives are: 1] Characterization of the multitemporal and spatial dynamics of the Huallaga, Marañón, Ucayali and Amazonas rivers; 2] Development of BMP (Best Management Practices) or guides to characterize the planimetric dynamics by means of the remote sensing technique (satellite images) to describe the evolution of the Mendric (Huallaga and Ucayali) and multichannel rivers (Marañón and Amazonas); and 3] Development of*

BMP or guides to quantify and characterize the structure of the water flow, sediments and how the morphology of the Amazonian rivers develops.

- “Diseño e implementación de dos sistemas de monitoreo hidrológico para la amuna Saywapata en San Pedro de Casta y las zanjas de infiltración en Canchamoya en San Mateo”, *EUR 60,000*, The Nature Conservancy and Aquafondo. **PI: Dr. Jorge D.Abad, and co-PI: Dr. Pedro Rau Lavado**

Summary: *The main objective of this project is to generate information on the hydrological system in the sub-basin of the Santa Eulalia River and to describe the efficiency of the hydraulic system of amunas and infiltration ditches, as part of conservation practices based on ecosystems that have a positive impact in the management and conservation of water sources for the use of the population. The project also includes the social participation component, which includes the organization of participatory workshops with community members, whose objective is to provide training on topics related to the quality and contamination of surface water, groundwater, bioindicators and hydrological monitoring.*

- “Portafolio de proyectos de servicios ecosistémicos para las cuencas de Lima: Chillón, Rímac, Lurín, y Alto Mantaro”, *USD 60,000*, The Nature Conservancy. **PI: Dr. Jorge D.Abad, and co-PI: Dr. Pedro Rau Lavado, Dr. Wendy Francesconi@CIAT**

Summary: *The main objective is the formulation of a portfolio of activities for the conservation and restoration of the green infrastructure of the Chillón, Rímac, Lurín and Alto Mantaro basins in order to maximize the supply of hydrological ecosystem services and the preparation of investment cards.*

- Elaboration and design of platforms to disseminate information about documentation and tools for research projects formulation.
- Coordination of consortium and agreements with national and international partners.
- Grants management. My responsibilities involve budget planning and management, capital expenditures tracing, and elaboration of financial reports.
- Monitoring of financial expenditures during projects execution.
- Support to other academic departments. Coordination and collaborative work with multidisciplinary research areas.

04/2017-12/2017 *Academic Coordinator*, Department of Environmental Engineering, Universidad de Ingeniería y Tecnología (UTEC)

- Coordination of Interdisciplinary Projects (called VLI - Vive La Ingeniería) at UTEC, based on PMI methodologies.
- Coordination of projects submitted by external institutions such as Smithsonian Institution and Social Lab for students.
- Coordination of volunteering programs and workshops for students from Environmental and Civil Engineering departments.

01/2017-Present *Research Assistant*, CITA, UTEC

- Management and support in documentation and budget planning for proposal submission to funding agencies such as CONCYTEC, Innóvate Perú, USAID, among others.
- Elaboration of thematic maps, GIS, and analysis of satellite images (remote sensing).
- Assistance in current projects.
- Planning and coordination of more than 20 workshops and events related to environmental topics. It involved logistics and cost management.

- 01/2016-03/2016 *Project Assistant*, PILLCO201 EIRL
- Elaboration of current projects biweekly and monthly valuations.
 - Re-design of construction and built drawings.
 - Quantification of materials (concrete, timber, and steel) based on the built drawings.
 - Assistance in projects supervision.
- 01/2015-03/2015 *Project Assistant*, Peru Hydraulics SAC
- Analysis of climatic, hydrometric and geographical information for hydrological studies.
- 04/2014-12/2015 *Teaching Assistant*, Department of Mathematics, PUCP
- TA of the course Statistics for Engineering (EST-218 Estadística para Ingeniería) in the Faculty of Sciences and Engineering.

Conferences

- 02/2018 Seminar Speaker: "*El humedal de Eten: geomorfología y calidad de agua*", III Simposio de Humedales del Perú, Museum of Natural History of the National University of San Marcos. Lima, Peru.
- 12/2017 Poster presentation: "*Eten's Coastal Wetland: its geomorphology, water quality and biodiversity*", AGU Fall Meeting 2017, New Orleans, LA, USA.
Rojas, T., Loayza-Muro, R., Bartl, K., Abad, J. (2017), Eten's Coastal Wetland, its geomorphology, water quality and biodiversity, Abstract [H51K-1420] presented at 2017 Fall Meeting, AGU, New Orleans, LA, USA. [URL](#)

Awards

AGU 2017 Student Travel Grant Winner
Fund for students whose abstracts show strong scientific merit to application reviewers in their respective Sections/Focus Groups. Awardees traveling from outside the U.S. and Canada received USD 1,000 in funds.
Area: H51K-1420 - Wetland and Floodplain/Riparian Zone Effects on Water Quality, Quantity, and Ecology in Downstream Waters.

Courses

- 08/2018 Workshop: *Reinventing Monitoring: Environmental DNA applications for biodiversity analysis and Environmental Management* by WWF and Nature Metrics. Lima, Peru.
- 04/2018 Course: *Training in Hydrological Monitoring for an adequate management of Water Resources* by The Nature Conservancy and Aquafondo. Lima, Peru.
- 12/2017 Conference: *2017 Fall Meeting AGU*. New Orleans, LA, USA.
- 03/2015-08/2015 Elective Course: *Integrative Ecology of the Central Andes* by Department of Engineering at PUCP. Lima, PE.
- 09/2014 Workshop: *Territory and Environment* by the Office of Research Management at PUCP. Lima, PE.
- 07/2014 Workshop: *Emotional Intelligence* by the Office of Student Orientation Service at PUCP (LIDERA Program). Lima, PE.
- 06/2014 Talk: *Geosynthetics and other solutions for road infrastructure* by TDM at PUCP. Lima, PE.
- 04/2014 Congress: *Regional Geology and Metallogeny in Peru* by the SEG Student Chapter at Universidad Nacional de Ingeniería. Lima, PE.

04/2014 Conference: *The Georadar and its applications: Geology - Infrastructure - Roads* - by the Colegio de Ingenieros del Perú. Lima, PE.

Supplementary Information

Languages Spanish (native), English (fluent)
Informatics QGIS, ArcGIS, AutoCAD 2D & 3D, R, LaTeX, MS Office Professional (Excel, Word, Power Point, Project)

References

Jorge D. Abad Cueva, PhD
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