# Ellen Delgado Florián

Cel. +01(706)286 5243
eldeflorian@uga.edu
205 woodstone dr, townhouse 4
Athens, Georgia, 30605
United States of America

## PROFESSIONAL SUMMARY

Environmental engineer with research interests related to environmental monitoring, environmental modeling, and spatial analysis using remote sensing technologies and geographic information systems. With experience supporting research projects in the tropical forest with emphasis on the study of land cover change and mapping of ecosystem services for conservation and sustainable management. Additionally, I am also interested in exploring new remote sensing technologies and spatial analysis platforms based on Machine Learning, Deep Learning, LIDAR, and multispectral data. Adaptable in field expeditions with multidisciplinary teamwork and community stakeholders.

## EDUCATION

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| 8/ 2021- current | University of Georgia, Athens USA <br> Department of Geography <br> Franklin College of Arts and Sciences <br> Athens, Unites States of America <br><br> M.S. Geography <br> Expected graduation date: May 2024 |
| 07/2012 – 07/2017 | Toribio Rodriguez de Mendoza National University <br> Chachapoyas, Perú <br> BSc Environmental Engineering |
| 09/ 2019 | Professional license in environmental engineering <br><br> College of Engineers of Peru (CIP): 232251 |

## WORK EXPERIENCE

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| 08 /2021– present | University of Georgia <br> Graduate Research Assistant- Center for Geospatial Research <br><br> Geospatial analysis and research for the U.S. Army Corps of Engineering Savannah Harbor Expansion Project (SHEP), (PI,Sergio Bernardes and Co-PI, Marguerite Madden) |
| 01 /2021– present | CAYETANO HEREDIA UNIVERSITY <br> Junior Researcher- Ecohealth and Urban Ecology Lab. <br><br> Spatial analysis to the Project "Integrating biodiversity in coastal development: a sustainability roadmap for Paracas, Peru " |
| 06/2020– 12/2020 | NATIONAL COMMISSION FOR AEROSPACE RESEARCH AND DEVELOPMENT (CONIDA) <br> Research Assistant -Direction of Geomatics (DIGEO). <br><br> Implementation of the research project "Determination of the biophysical characteristics of agricultural crops for monitoring by the Perusat-1 satellite for a better agricultural planning and management |

effects of climate change in Peru "

02/2019– 08/2020      PERUVIAN SOCIETY OF ENVIRONMENTAL LAW
Research Assistant - Conservamos por Naturaleza Initiative.

Implementation of the research project "Mapping Mountain Peatlands and Wet Meadows Using Multi-Date, Multi-Sensor Remote Sensing in the Cocahuaico watershed, Amazonas Peru".

01/2019–06/2020      TORIBIO RODRÍGUEZ DE MENDOZA NATIONAL UNIVERSITY /INSTITUTE OF RESEARCH FOR SUSTAINABLE DEVELOPMENT OF CEJA DE SELVA (INDES-CES)
Research Assistant- Biodiversity SNIP project.

Developing and Implementation of projects that included the use of remote sensing technologies in agricultural and forest research in the Ceja de Selva ecosystems such as "Effectiveness of Community Conservation Areas in Cloud Forest Ecosystems in Amazonas, Northeastern Peru".

09/2018– 12/2018      NATURE AND CULTURE INTERNATIONAL
Consultant- Andes Amazon Fund AAF Project.

Work with local communities developing strategies for the sustainable development of the Regional Conservation Bosques Tropicales Estacionalmente Secos del Marañón (BTESM).

07/ 2018- 09 / 2018      RESEARCH INSTITUTE OF THE PERUVIAN AMAZON – IIAP
Research assistant- PROBOSQUES

Generate and process images obtained with unmanned aerial vehicles (UAVs) taken from the Pacaya Samiria National Reserve, in the Peruvian Amazon as a part of the Project "Integration of high-resolution images of unmanned aerial vehicles UAVs for mapping of supply ecosystem services in the tropics"

01/2018– 06/2018      TORIBIO RODRÍGUEZ DE MENDOZA NATIONAL UNIVERSITY /INSTITUTE OF RESEARCH FOR SUSTAINABLE DEVELOPMENT OF CEJA DE SELVA (INDES-CES)
Undergraduate Thesis- Geomatics and Remote Sensing Laboratory.

Development of the thesis project "Change in land use and Vegetation Coverage in the Private Conservation Area Hierba Buena- Allpayacku and its Surrounding Area, Amazonas 2017"

06/2015– 07/2017      NGO NATURE AND CULTURE INTERNATIONAL
Intern

Management of Geographic Information Systems for the elaboration of thematic maps, baselines,and technical sheets of the conservation area proposals.

## PUBLICATIONS

Delgado, E., Meza, G., Barboza, E., Rojas, B., Torres, C., Oliva, M., López de la Lama, R., Sevillano-Ríos, S. and Sarmiento, F. 2020. Effectiveness of Private Conservation Areas in Cloud Forest Ecosystems in Amazonas, Northeastern Peru. *Pirineos. Submited 12/2020*

Sarmiento, F. O., Bush, M.B., Church, W., Van Valkenburgh, P., Oliva, M., Delgado, E., Rojas, N. and Fernandez, S.2020. Historicity of cloud forest microrefugia and conservation woes of Chachapoyas in the Peruvian jungle's brow. *Pages.*
Available at:
https://doi.org/10.22498/pages.28.1

Delgado, E. (2017). Changes in land use and vegetation cover in the Hierba Buena-Allpayacku Private    Conservation Area and its surrounding area, Amazonas, 2017.
*Faculty of environmental engineering. Toribio Rodríguez de Mendoza National University.*
Available at: http://repositorio.untrm.edu.pe/handle/UNTRM/146

Delgado, E. (2019). Evaluation of the change in surface surface temperature and the effectiveness of Private Conservation Areas in the Peruvian Amazon to preserve mountain ecosystems and their biodiversity in Amazonas. Internal report. *Research Institute for Sustainable Development of Ceja de Selva- Toribio Rodríguez de Mendoza National University.*

Curatola, G., Makowsky, S., Scheske, C. & Delgado, E. (2019). Mapping and identification of high Andean peat bogs in the

Cocahuaico Basin, Bongará, Amazonas, Peru. Internal report. *Peruvian Society of Environmental Law-We Conserve by Nature initiative U.S. funded project Fish and Wildlife Service -USA.*

**LANGUAGES**

Spanish - Native
English- Duolingo English Test  115 (June 2021)

**TECHNICAL SKILLS**

Proficient in Geographic Information Systems :Arcmap, ArcGIS online, ArcGIS pro, QGIS, Pix4D, Mashlab, Google earth engine, AGIsoft photoscan y Quick terrain reader.
Drone pilot: Intermediate level

**ACADEMIC ACHIEVEMENTS**

**Masters-Level Graduate Assistantship**
**Center for Geospatial Research**
**University of Georgia**
**Date: 08/2021-04/2023**
**Amount: USD $47,766.55**

Financial support during your 2-year Masters of Arts Degree program in the Department of Geography at the University of Georgia (UGA). It includes a 44.44% - time Graduate Research Assistantship (GRA) funded by our external grant from the U.S. Army Corps of Engineers. This assistantship provides a tuition waiver

**Opportunity Funds Scholarship,2020/2021**
**EducationUSA, Peru**
**Date: 02/2020**
**Amount: USD 10,000**

Opportunity Funds is a scholarship program funded by the U.S. Department of State's Bureau of Educational and Cultural Affairs and it is designed to increase access to U.S. higher education institutions for academically gifted students, with high English proficiency levels and who come from public high schools and universities in Peru. I am one of 10 scholars chosen from across Peru in 2020 and have received financial support to cover my test preparation, exams, applications, translations and all other fees related to the graduate application process to U.S. universities for fall 2021.

**Agricultural Innovation Program- Peru Scholarship for academic internship:**
**Date: 01/15- 05/08/2020**
**Amount: USD 20000**

International Internship in Sustainable Development of Mountain Ecosystems of the Tropical Andes. *Neotropical Montology Collaboratory (NMC), Center for Geospatial Research, Department of Geography, Georgia university, United States.*
Awarded by: The World Bank Group through the Agricultural Innovation Program- Peru

**NASA DEVELOP National Program, Georgia Visitor**
**research**
**02/15/2020 - 04/08/2020**

Costa Rica & amp; Panama Ecological Forecasting II Identifying Current and Future Areas of Environmental Concern in La Amistad International Park for Resource Management.

**PRESENTATIONS**

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| June- 2020 | **Speaker:** Teledetection with optical and SAR Data for Forest Mapping and Monitoring  *Programa Nacional de Innovación Agraria (PNIA).* |
| March- 2020 | **Speaker:** Natural heritage of Amazonas, Peru, Challenges and Initiatives for its conservation *Department of Earth and Space Sciences – Columbus State University.* |
| February- 2020 | **Speaker:** Application of remote sensing technologies to monitoring and analysis of land use change in cloud forest conservation areas in Amazonas, Peru. *Mountain Geography class, Faculty of Geography-* |

*University of Georgia, United States*

Noviembre- 2018    **Speaker:**
Latin American Congress of Private Conservation. Chachapoyas, Perú.
Peruvian Society of Environmental Law  and Andes Amazon Fund.

Topic: Analysis of vegetation cover and land use change in Conservation Areas, using satellite images and participatory cartography.

## ADDITIONAL EDUCATION

Introduction to Synthetic aperture RADAR for ecosystem applications.
**SERVIR, University of Alaska Fairbanks (UAF)**
July 9, 2020

Advanced Webinar: Forest Mapping and Monitoring with SAR Data.
**NASA ARSET**
May 12, 2020. May 14, 2020. May 19, 2020. May 21, 2020.

Course - Specialization workshop "Remote sensing applied to studies of vegetation cover and land use change"
**National University Toribio Rodríguez de Mendoza Amazonas**
March 18 to March 22, 2019; duration of 30 academic hours.

Workshop Course Organization, "Application of GPS and Mobile Devices (A-GPS) for the acquisition of special information and its representation with QGIS"
**National University Toribio Rodríguez de Mendoza Amazonas**
March 27 to March 28, 2019; duration of 30 academic hours.