

Milagros Becerra

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PROFESSIONAL EXPERIENCE

Research Assistant

Clark University and National Science Foundation

Worcester, MA

Set 2023–December 2024

- Collaborating in the core member of component 1 to build an Atlas using ESRI and GIS databases relate to actions to mitigate climate change effects and ways to improve water availability in central Mexico.
- Field work activities during spring semester in central Mexico.

GIS Special Project Coordinator

NGO, Amazon Conservation - ACCA

Lima, Peru

March 2020–August 2023

- Collaborated in the SERVIR Program in Amazonia Hub to write and organize scientific reports.
- GIS analyst in demand-driven custom tools using geospatial technology such as Google Earth Engine and ESRI.
- Supported a near real-time alert system in the Amazon to track gold mining activity and deforestation [RAMI](#)
- Facilitated capacity building trainings on QGIS, Google Earth Engine and Python with Google Colab.

EDUCATION

M.S. in Geographic Information Science | Clark University | Expected May 2025

B.S in Geography and Environment | Pontifical Catholic University of Peru | June 2018

PUBLICATIONS

Monitoring gold mining activity using SAR-satellite data in Madre de Dios, Peru.

- Participated as co-author in the Human Application chapter. (Chapter A1.5). Cloud-Based Remote Sensing with Google Earth Engine. Fundamentals and Applications. Springer Link. <https://www.eefabook.org/>

Combining spaceborne lidar from GEDI with local knowledge in the forest-agriculture interface of Ucayali, Peru.

- Participated as co-author in Cooley, S., Pinto, N., Becerra, M., et al. (2024). Ecology and Evolution. <https://doi.org/10.1002/ece3.70116>

Creating near real-time alerts of illegal gold mining in the Peruvian Amazon using Synthetic Aperture Radar

- As principal author in a case of study where a geospatial solution has been deployed to create near-real time alerts about illegal mining. Environmental Research Communications. Under review. ERC-102041.

PROGRAMING SKILLS

- Geospatial analysis: Google Earth Engine, Esri platforms (Story Maps, Experience Builder), Python with Google Colab, SEPAL, Collect Earth Online, QGIS.

LANGUAGES

- English, Spanish and Portuguese