Climate Change and Sustainable World: Missions and Voices of Women+ of Geospatial

Olive Powell, Director, Women+ In Geospatial UN WGIC, Hyderabad, October 2022
To build an inclusive global community uniting, inspiring and empowering all women+ in geospatial sector to become strong leaders and changemakers.
>4,300 Women+ members

over 91 Countries

26,700 Followers on social media
Activities

INSPIRE + UNITE + EMPOWER

Community building
Speakers database
Mentorship programme
Events (online & in-person)
REPRESENTATION MATTERS
Be Inspired
Dr Breylla Campos Carvalho

Oceanographer Technician at CEBIMar, University of San Paulo, Brazil
Goal: Curve the spread of Invasive Species in Brazil

The Problem:
• Golden Mussels, Invasive species
• Threats to the Brazilian water systems, reservoirs, biodiversity and hydraulic power industry

A national plan to monitor and control

Breylla’s Work & Impact:
• Quantifying & modelling of growth patterns
• Using Landsat imagery (Bio-optical & thermal) and Google Earth Engine
• Allows to monitor hard to access areas & comparison across watersheds
• Contributes to the species’ dispersion and settlement pattern analysis

Photo: Top Left (Golden Mussel) from www.science.org; Bottom Right: Diagram from Breylla Campos Carvalho
Lydia Tasia

Machine Learning Scientist

Fieldy, Uganda
Goal: Ensure sustainability of the cashew value chain

The Problem:
- Increased consumption of Cashew Nuts worldwide
- Poor working conditions for local farmers

Demand for ethical cashew production and sustainable cashew value chains

Lydia’s Work & Impact:
- Using Sentinel 2 imagery and machine learning python packages to model the localisation of cashew farms (83% accuracy)
- Contributes to the localisation at scale to target and support sustainability efforts at farm level.

Photo: Top Left (Cashew Plant) from [https://www.agrifarming.in/cashew-farming](https://www.agrifarming.in/cashew-farming); Bottom Right: Testing model output from Benin to apply to Uganda from Lydia Tasia
Akansha Saklani

Geospatial Manager
World Resources Institute
India / Netherlands
Goal: Support access to sustainable electricity for all

The Problem:
• Disparate access to reliable electricity for Indian public institutions

Facilitate the assessment and the purchase of renewable energy at scale

Akansha’s Work & Impact:
• Curating geospatial datasets to run multi-criteria spatial analysis
• Developing the Energy Access Explorer (EAE) platform to support policy and decision making
• Helps provide sustainable energy to people, improve lives and reduce carbon emissions
Find your Women+ in Geospatial speaker today (total: 347)

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