

NELLIE TITANI AMOSI
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EDUCATIONAL BACKGROUND

Environmental Science (Doctorate, Spring 2024)

Dissertation title: Trends of precipitation and temperature extremes of southern Africa from models and observation data

University of Connecticut, Storrs, CT 06269, USA

<https://uconn.edu/>

Graduate Certificate in Remote Sensing and GeoSpatial Data Analytics, 2022. University of Connecticut

(<https://remotesensing.online.uconn.edu/>)

Certificate in Spatial Data Analytics, 2022 (ESRI)

Certificate in Cartography, 2022 (ESRI)

Master of Arts in Sociology (2020)

Title of thesis: How does collective identity influence environmental behaviors of college students?

New Mexico State University, <https://www.proquest.com/docview/2410798731?pq-origsite=gscholar&fromopenview=true>

1780 East University Avenue, Las Cruces, New Mexico, USA

<https://nmsu.edu/>

Master of Science in Environmental Management (2017)

Title of thesis: [Value chain analysis of baobab products for improved marketing and sustainability of their trade in Malawi](#)

Mzuzu University, Private Bag 201, Mzuzu, Malawi

<https://www.mzuni.ac.mw/>

Bachelor of Science Forestry (2010)

Research topic: [Effect of seed size on seed germination rate of Adansonia digitata L. from five natural populations of Malawi.](#)

Mzuzu University, Private Bag 201, Mzuzu, Malawi

<https://www.mzuni.ac.mw/>

WORK RESEARCH

Research Intern, Connecticut Department of Public Health (Summer 2022)

- Researching and analyzing data on emerging contaminants in drinking water and their relationship to human health
- Developing a webpage for public information
- Writing and presenting weekly reports
- Going out in the field to inspect public and private water systems.

Graduate Teaching Assistant, Geomatics (Spring 2022 and Current)

- Spatial data modeling with relational databases with Access and ArcGIS Pro
- Fundamental cartographic concepts: coordinate systems, reference systems and datums, map projections.
- GIS concepts, data structures (raster vs. vector), layers, geodatabases.
- Global Navigation Satellite System (GNSS): basic working principles, levels of accuracy, differential correction, export of GNSS data into databases and into a GIS
- Teaching students in the Learning Communities to advance Diversity, Equity, and Inclusion for all.

Graduate Research Assistant, Hutch Project (Aug 2020 to Fall 2023)

- Analyzing and characterizing trends and patterns on precipitation and temperature from NASA and CRU models and observation data from 1901 to 2020.
- Analyzing historical and projected mean temperature trends from 1981 to 2050.
- Developing reports, presentations, and writing manuscripts.

Research Associate, USDA (Jornada Experimental Range) (Jan 2018 to May 2020)

- Prepare data collection materials for different data collection methods (qualitative, quantitative, and mixed research methods) for in-person and online
- Conduct literature reviews, collecting data using Qualtrics, key informants, individual interviews, focus group discussions, and analyzing environmental data using qualitative and quantitative methods.
- Preparing data collection materials (questionnaires, surveys, case studies, observations) and follow all Institutional Review Board (IRB) protocols for human subjects.
- Prepare project reports and articles to disseminate information to stakeholders and non-scientific communities.

Research Coordinator, CIFOR-ICRAF June 2011 to July 2015

- Manage all data collection exercises, management, analysis, and presentation to scientists and non-scientific communities.
- Designing and implementing performance-based Monitoring & Evaluation systems.
- Ensure all partners are implementing the Joint Activity Plan and managing their budgets (funds) accordingly.
- Develop institution policies and procedures.
- Training and development to departmental staff and partners.
- Writing timely reports/briefs on all activities assigned and undertaken.

SOFTWARE SKILLS

- Python
- Tableau
- ENVI, ArcGIS Pro, ArcGIS, QGIS
- Microsoft Access, advanced excel, Word, PowerPoint

INTERESTS

- People management and partner relationships
- Geomatics and Relational Database Management Systems (RDBMS), Data Analysis (including advanced spatial analysis)
- Machine Learning
- Quantitative and qualitative research
- Administrative and Policy Analysis
- Leadership and Social theories

FELLOWSHIPS

- Philanthropic Educational Organization Fellowship (2021 and 2022)
- Regional University Forum for capacity building in Agriculture (RUFORUM) Masters scholarship (2015 to 2017)
- African Women in Agricultural Research and Development (AWARD) fellowship, (fellow) (2014 to 2016)

Referrals

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