Angsana Chaksan

Researcher - Geospatial Analyst

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📍 Affiliation: Geoinformatics Center, Asian Institute of Technology, Thailand

EDUCATION

Master of Science in Remote Sensing and Geographic Information Systems

Asian Institute of technology, Thailand.

August 2017- December 2019 (GPA: 3.50)

Thesis title: Assessment of Flood Control (Monkey's Cheeks) Measures in Chao Phraya River Basin-Excellent

Special study: Relationship between Seasonal, Economy, Water Quality, and Diarrhea Disease in Thailand.

Bachelor of Science in Geography
Minor subjects in Management

Kasetsart University Bangkhen, Bangkok, Thailand.

June 2013 – May 2016 (GPA: 3.62) - *First Class Honors*

Research title: Assessment for finding central business district on urban corridors in Bangkok metropolitan region.

ABOUT ME

I am a researcher in the field of Remote Sensing (RS) and Geographic Information Systems (GIS) with more than five years of experience. I have been involved in several projects related to plastic waste using GIS web applications and disaster mapping using SAR and Optical imagery at the Geoinformatics Center. Additionally, I have worked on assessing greenhouse gases from land use in various provinces in Thailand using remote sensing technology. Currently, my interests lie in using new SAR imaging technology to track and aid in disaster relief efforts.

WORK EXPERIENCE

Senior Research Associate (Jan 2022-present)/
Research associate (Dec 2019-Dec 2021)
Geoinformatics Center, Asian Institute of Technology / Thailand

▪ Working, developing, coordinating, and conducting capacity building training, research activities, and projects related to Remote Sensing, GIS and GPS applications, and other spatial concerned activities in the Center. Carry out project and research activities on various topics.
▪ Conduct in-house training programs, developing training material/hands-on, and imparting skills and knowledge to the training participants.
▪ Carry out project and research activities on RS and GIS applications, preparing reports and posters, and participating in conferences.

Research assistant (2015 – Nov 2019)
Department of Geography, Kasetsart University Bangkhen, Bangkok, Thailand
▪ Assist the Lead Researcher through providing reports, pulling up reports and offering my perspective to research outcomes.
▪ Conduct analytical experiments under the guidance of more experienced researchers. Assist in analyzing and interpreting research data.
▪ Analyze spatial data, make maps and report summaries.
▪ Organizing work process training for relevant agencies.

GIS specialist (Oct 2016 – Jan 2017)
The Geo-Informatics and Space Technology Development Agency (GISTDA), Thailand
▪ The development and link system Web Map Service (WMS) for local authorities by OpenLayer (Open-source software)
▪ Prepare spatial data in the shapefile form for training.
▪ Contact with various agencies related to spatial data preparation (Fundamental Geographic Data Set (FGDS)).
▪ Check the accuracy of the information received from various agencies for use in the FGDS.

PROJECT EXPERIENCE

- **Support work on JAXA's Responsibilities regarding disaster response related activities** (2020-2023)
  Project under Japan Aerospace Exploration Agency (JAXA)

- **Strengthening Capacity for Marine Debris Reduction in ASEAN Region through Formulation of National Action Plans for ASEAN Member States and Integrated Land-to-Sea Policy Approach** (Jun 2022 -Mar 2023)
  Project under Institute for Global Environmental Strategies (IGES)

- **Promotion of Countermeasures against Marine Plastic Litter in Asia and the Pacific (CounterMEASURE II)** (Jan 2021 -Mar 2020)
  Project under United Nations Environment project (UNEP)

- **Promotion of countermeasures against marine plastic litter in Southeast Asia and India (CounterMEASURE I)** (Oct 2019 -Oct 2020)
  Project under United Nations Environment project (UNEP)

- **Land Resources Information Management System Development in Afghanistan (LRIMS)** (May -Oct 2020)
  Project under Food and Agriculture Organization (FAO)

- **The study and development of a system to monitor and assess the quantity of greenhouse gases from land use by remote sensing technology** (2017-2019)
  Project under: Thailand Greenhouse Gas Management Organization (TGO)

- **Assessment of greenhouse gases in the atmosphere with remote sensing technology in Thailand** (2016-2017).
  Project under: Thailand Greenhouse Gas Management Organization (TGO)

RESEARCH PUBLICATIONS

- **Addressing the Plastic Pollution Issue Together: Approaches with Citizen Science and Digital Tools** (7th International Marine Debris Conference (7IMDC) – 18-23 September 2022 in Busan, Republic of Korea).

- **GIS and Remote Sensing-Based Approach for Monitoring and Assessment of Plastic Leakage and Pollution Reduction in the Lower Mekong River Basin** (Sustainability 2022, 14(13), 7879; https://doi.org/10.3390/su14137879).

- **Macroplastics survey at artificial barrier in Ubon Ratchathani province** (The 3 rd International Conference on Environment, Livelihood, and Services (ICELS 2022). Bangkok, Thailand (Virtual Conference). 14 - 16 March 2022, 153-162).

- **The Role of Open-Source Python Package GEOSERVER-REST In Web-Gis Development** (International Archives of the Photogrammetry Remote Sensing and Spatial Information Sciences (ISPRS), https://doi.org/10.5194/isprs-archives-XLVI-4-W2-2021-91-2021, 2021.).

- **A Comparison of Urban Expansion Influenced by the Eastern Seaboard Development Program** (The 13th National Conference on Information Technology (NCIT2020). The Tide Resort, Bangsaen Beach Chonburi. 21-21 October 2020, 40-45).

TEACHING AND CAPACITY DEVELOPMENT EXPERIENCE

- Training on "Digital Terrain Modeling and hydrological" for participants from Department of Agricultural Land Management of the Ministry of Agriculture and Forestry, Lao PDR (Jan 2020)

- Student assistantship of ACISAI (Asian Center of Innovation for Sustainable Agriculture Intensification) in translation written and translator for National workshop (2018), Bangkok. (**Sep 2018 - Nov 2018**)

SKILLS

TECHNICAL SKILLS

- **Remote sensing and GIS (Professional)**

Remote Sensing software (Erdas, Envi, TerrSet, SNAP, GMTSAR)

GIS software (ArcMap, ArcGIS Pro, QGIS) and GIS Web Application

- **Programming languages**

Competent in basic Python and basic Google Earth Engine

PERSONAL SKILLS

- Thai Language: Native Speaker
- English Language: Good
- Excellent multitasking ability
- Strong communication and interpersonal skills
- Able to work collaboratively in a team.
- Demonstrable organizational and problem-solving skills
- Responsible

REFEREES

Available on request