Kassi Yan

Christchurch

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Skills

GIS and Spatial Data Analysis

ArcGIS Pro, Survey 123, ArcGIS Online, ArcGIS StoryMaps

WebApp Development

Python, HTML, SQL, CSS, JAVA

Data Visualization

Tableau, Power BI

Image Processing

Adobe Photoshop, Adobe Lightroom

Microsoft Office

Word, Excel, PPT

Interests

Outdoor Adventure

Hiking, Camping, Diving, Kayak

Sports

Tennis, Badminton, Squash, Swimming, Running, Climbing

References

Dr Annamaria Mills
Research Officer – Field Research Centre

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Dr DeKlerk Helen
Lecturer in Geospatial Technologies

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Summary

With a Master's in Applied Computing, specializing in GIS from Lincoln University, I am seeking opportunities in GIS analysis or technician roles to further enhance my technical skills. My GIS experience spans various projects, including projects such as Liveable Parks Survey in Christchurch, Topographic change analysis of the Selwyn River over time, Solar Farm location analysis in Ashburton, Remote Sensing for pasture biomass estimation, Lees Valley Walking Trail mapping, and data analysis for service improvement. For more details, visit my Digital CV (https://guiyan1.github.io/Kassiyan-DigitalCV/).

Education

LINCOLN UNIVERSITY **2023 - 2024**
MASTER OF APPLIED COMPUTING

HUNAN NORMAL UNIVERSITY **2009 - 2013**
BACHELOR OF PUBLIC RELATIONS

Experience

Regenerative Agriculture Dryland Experiment Research **July 2024 – November 2024**
GIS Research Internship Christchurch

- Collected and processed multispectral drone data with Pix4D-Field to generate NDVI data for vegetation analysis.
- Analyzed research data and created visual presentations under researcher guidance.
- Mapped study areas using ArcGIS Pro and contributed to research reports on regenerative agriculture findings.

Lincoln University **July 2024 - October 2024**
GIS Tutor/Consultant Christchurh

- Assisted landscape architecture students how to use ArcGIS through videos and hands-on sessions, helping them with mapping and data analysis for their project.
- Simplified complex GIS concepts using easy examples (like Google Maps), making the technology accessible to students with no prior experience.

OTR **December 2022 - May 2023**
CRM Operator Kangaroo Island, SA

- Managed the OTR ordering system operations in the Kangaroo Island region, ensuring smooth functioning and seamless communication with the IT department.
- Proactively identified and reported technical and operational issues to the manager, contributing to prompt resolution and improved service delivery.
- Analyzed monthly product sales data to optimize system settings and prioritize best-selling products for the next month.

Discovery Park **June 2021 – November 2022**
Analysis Assistant Discovery Park, G'day Group, WA

- Collected and analyzed customer service data to improve the check-in and check-out process, ensuring a seamless guest experience.
- Managed and maintained reservation data, accurately inputting and verifying information to ensure the integrity of guest records.
- Analyzed guest feedback and inquiries received via email, identifying trends and areas for improvement to enhance overall customer service quality.

Projects

Topographic change analysis of Selwyn River **June 2024 - October 2024**

Selwyn River in Canterbury, New Zealand, experiences significant morphological changes due to topographic influences, impacting its ecological health and land use. Understanding these changes is crucial for effective river management. This study employs high-resolution LiDAR Digital Elevation Models (DEMs) and GIS to analyze the river's evolution.

- Analyzed topographic changes of the Selwyn River using high-resolution LiDAR DEM data (1 m) from 2015, 2021, and 2023.
- Conducted GIS-based spatial analysis, applying Cross-section Elevation Profiles, DEM of Difference (DoD), and Relative Elevation Model (REM) techniques.
- Assessed topographic variations to inform river management and protection strategies.

Solar Farm location analysis in Ashburton District **April 2024 – June 2024**

The purpose of this analysis was to locate potential areas for solar farm sites in Ashburton District, particularly focusing on livestock farmland. Geographic Information System (GIS) was used as a tool to consider multiple spatial criteria and constraint factors to locate potential areas for solar farm.

- GIS was used as a tool to consider multiple spatial criteria and constraint factors to locate potential areas for solar farm.
- Weighted score of selected criteria, including elevation, solar radiation, and distance to transmission lines of study area were obtained.
- The resulting layer was then analysed with constraint factors to exclude land types that are not low producing or high producing grassland, zones within 2000m of populated areas, and a slope greater than 5 degrees.

From the analysis, 950.13km2 out of the 6,181.45 km2 of the study area were considered as highly suitable for potential solar farm locations.

Volunteering

COCA Gallery **October 2024 - Present**

Gallery Coordinator Christchurch

- Greeted and registered visitors, provided appropriate exhibition information.
- Assisted the exhibition manager in setting up exhibitions and handled relevant administrative tasks.
- Supported the photography of on-site activities during workshop events.

CATL Booth **September 2023 - October 2023**

Event Coordinator Melbourne

- **Bilingual Translator and Customer Service Representative:** Facilitated seamless communication and ensured comprehensive understanding of products and services for both English and Chinese-speaking visitors at the All ENERGY Australia Exhibition.
- **Event Coordination:** Assisted in the successful execution of events by coordinating setup, managing attendee registration, and distributing materials during both the All ENERGY Australia Exhibition and National Water Week.
- **Social Media Campaigns:** Coordinated and executed social media campaigns to increase visibility and influence, particularly for CATL's presence at the All ENERGY Australia Exhibition.