

# LIU YIXIAN

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## CAREER OBJECTIVE

Year 3 Geography undergraduate at the University of Malaya with a peer-reviewed international conference publication in methane remote sensing. Seeking an industrial training placement to apply GIS, remote sensing, and spatial analysis skills to environmental sustainability, ESG, or climate research initiatives.

## EDUCATION

### Bachelor of Arts (Geography)

University of Malaya | Expected Graduation: July 2027 | **CGPA: 3.60 / 4.00**

**Relevant Coursework:** Remote Sensing, Geographic Information System, Data Visualization (AIP3003)

## ★ PUBLICATIONS & RESEARCH ★

### "From Pixels to Plumes: A Comparative Review of Spatial Resolution Effects in Methane Remote Sensing"

- Accepted for the **4th International Conference on Mechatronics and Smart Systems (CONF-MSS 2026)**, Adana, Turkey (June 2026). To be published in *Applied and Computational Engineering* (ISSN 2755-2721); indexed by **CPCI, Inspec (Engineering Village), Crossref, and CNKI**.
- Conducted a comparative review of how spatial resolution influences methane plume detection and quantification across satellite remote sensing platforms.
- Research mentored by faculty supervisor from **Peking University**; received formal letter of recommendation.

## FINAL YEAR PROJECT

### *Spatiotemporal Evolution of Extreme Heat Events and Their Socioeconomic Correlations in the Yangtze River Delta (2000–2024)*

- Analysing 25 years of climate observation data to characterise spatial and temporal patterns of extreme heat events, and examining their correlation with regional socioeconomic indicators to identify climate vulnerability hotspots across one of China's most densely populated economic regions.

## TECHNICAL SKILLS

- GIS & Remote Sensing:** ArcGIS Pro, Google Earth Engine, ENVI
- Data Analysis & Visualization:** Microsoft Excel (Power Query, Power Pivot), Power BI
- Professional Development:** Faculty Scholar Programme (FSP, UM) — Excel · Power Query & Power Pivot · Work & Time Management · Conflict Resolution
- Languages:** Mandarin (Native), English (IELTS 6.5)

## EXPERIENCE & LEADERSHIP

**University of Malaya Chinese Students Association (UMGCSA)** — *Head, Organisation Department* | January 2025 – Present

- Lead the planning and coordination of departmental events and student programmes for one of UM's largest cultural societies.
- Directed external sponsorship outreach, **successfully securing partnerships with 3 corporate sponsors** to fund society activities and events.

**Department of Geography, University of Malaya** — *Campus Outreach & Geography Education Intern* | June – August 2025

- Hosted and guided Malaysian secondary school groups visiting the UM campus, leading sessions at the weather station and geography exhibition spaces.
- Translated specialist geographical content into accessible explanations, adapting delivery based on audience feedback; supported visual documentation for outreach materials.

**SPCA Selangor** — *Volunteer, Animal Welfare* | 2025

- Contributed to shelter operations at **SPCA Selangor** (Malaysia's longest-established animal welfare NGO, founded 1958), including kennel sanitation, biosecurity disinfection, and behavioural enrichment walks for rescued dogs.