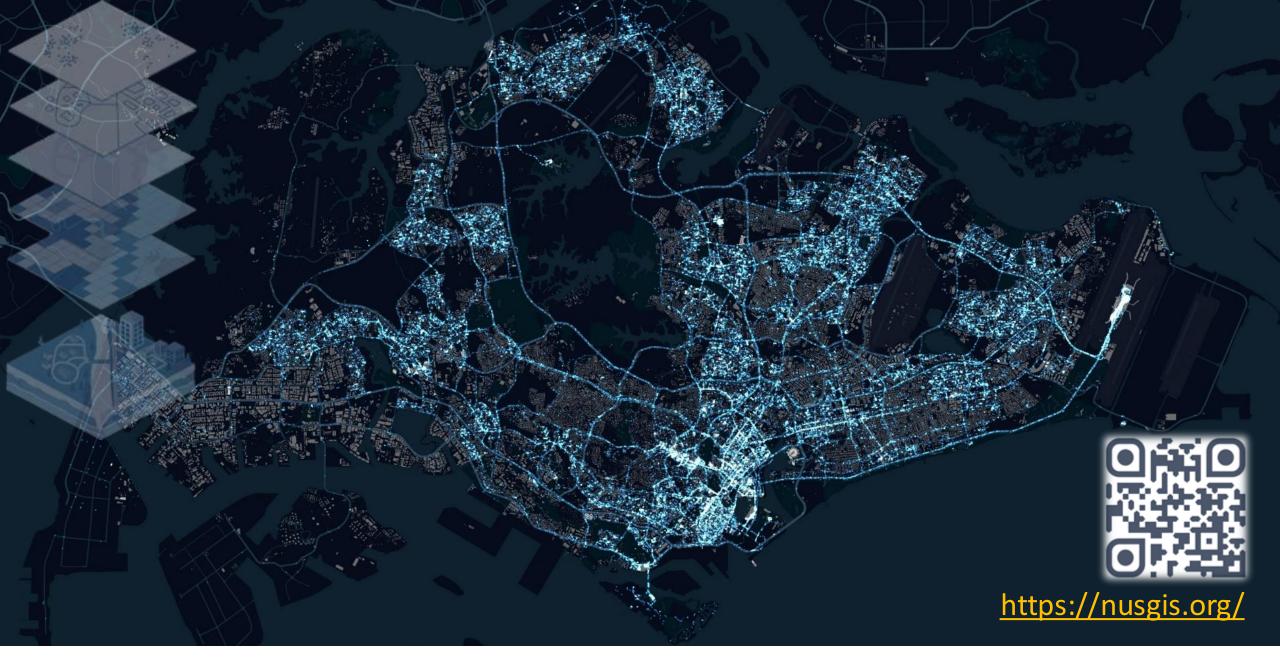


## MSc. in Applied Geographic Information Systems Department of Geography



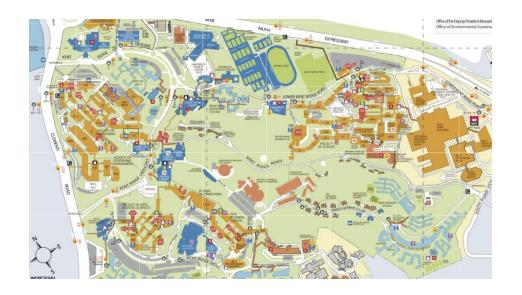


GIS Unit, Department of Geography, NUS

## **NUS Department of Geography**

Geography Department belongs to the Faculty of Arts and Social Sciences.

- The department has 3 main research thrusts:
  - PEAS
     Politics, Economies, and Space
  - <u>SCG</u>
    Social and Cultural Geographies
  - TEC
    Tropical Environmental Changes
- GIS or geospatial information technologies, including spatial data science, cuts across all three thrusts.



https://map.nus.edu.sg/

Address: AS2, #03-01, 1 Arts Link, Kent Ridge, Singapore 117568

## **GIS Faculty Members**



A/P FENG Chen-Chieh



A/P WANG Yi-Chen



Dr. Luo Wei



Dr. Muhamad Nawaz



Dr. Tang Hao



Dr. Yan Yingwei



Dr. Benny Chin

## More educational pathways to develop geoscience talent pipeline and deepen capabilities



NUS Deputy President (Academic Affairs) and Provost, Professor Aaron Thean (left) and Chief Executive of Singapore Land Authority, Mr Colin Low (right) at a MOU signing in September 2023. Witnessing the signing was Dr Mohamad Maliki Bin Osman (centre), Minister, Prime Minister's Office, Second Minister for Education and Second Minister for Foreign Affairs.

- NUS will soon be rolling out more learning and training opportunities in geospatial science following a partnership inked with the Singapore Land Authority (SLA).
  - This partnership, announced with the signing of a memorandum of understanding (MOU) between NUS and SLA at the *Singapore Geospatial Festival 2023*, aims to support and encourage the adoption of geospatial data, services and technologies as part of Singapore's move towards a Smart Nation.

# Master of Science in Applied GIS

- Learn the latest location intelligence technologies theories and applications
- Solve real world problems through the lens of geography
- Flexible learning: Full-time (1 year) or part-time (2 years) options



MSc in Applied GIS by Coursework Programme:

https://fass.nus.edu.sg/geog/msc-in-applied-gis/

## Students - Cohort & Alumni

**Cohort & Alumni** 

40 - 50

Candidates Per Intake

0-25 years of working experience (Average 4 years)

From fresh graduates to experienced working professionals

#### Diverse background

**Environmental scientists** 

Research Engineer

Software Engineer

**Education officer** 

Managers

Research officers/Assistants

Data analysts etc.

## Where our alumni are today

In a variety of government, international and private sectors, including but not limited to:



















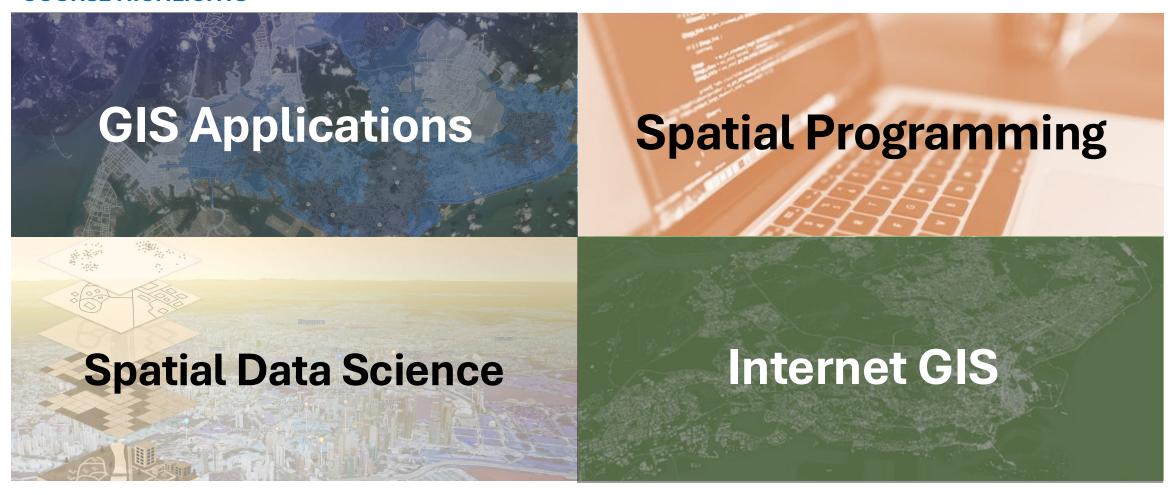




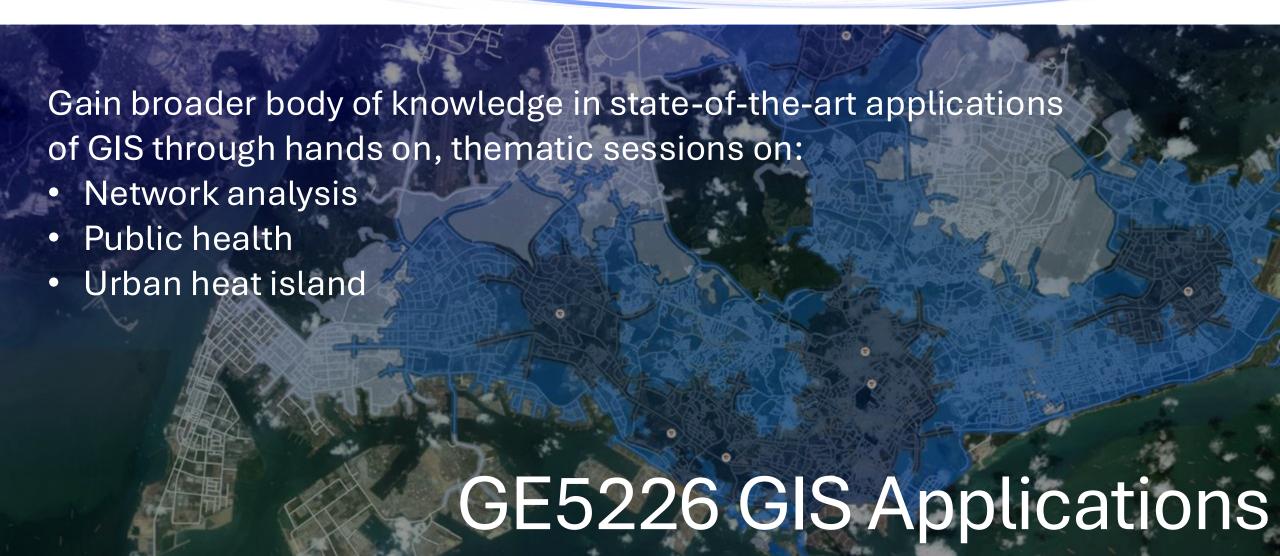




#### **COURSE HIGHLIGHTS**









Learn programming skills essential for building and implementing customized geoprocessing functions and mapping applications such as:

- Basic concepts on Python programming
- Geoprocessing in ArcGIS
- Spatial analysis with programming scripts

## GE5219 Spatial Programming



Learn spatial data processing skills and be able to apply these skills in the field of both human and physical geography. Topics examined include:

- Spatial data mining
- Spatial uncertainty
- Geospatial simulation
- Spatial statistics, etc.

## GE6211 Spatial Data Science



Equip yourself with the latest Internet GIS technologies and spatial theories for mapping and comprehending activities in virtual space, real space, and the intersections of the two spaces. Topics include:

- Digital Earths
- Volunteered Geographic Information (VGI) and Citizen Science
- Geoweb Application Development on the Browser
- Streaming, real time Data
- Internet GIS and mobile devices Geo- and data visualization

## GE5227 Internet GIS

## **Programme Structure**

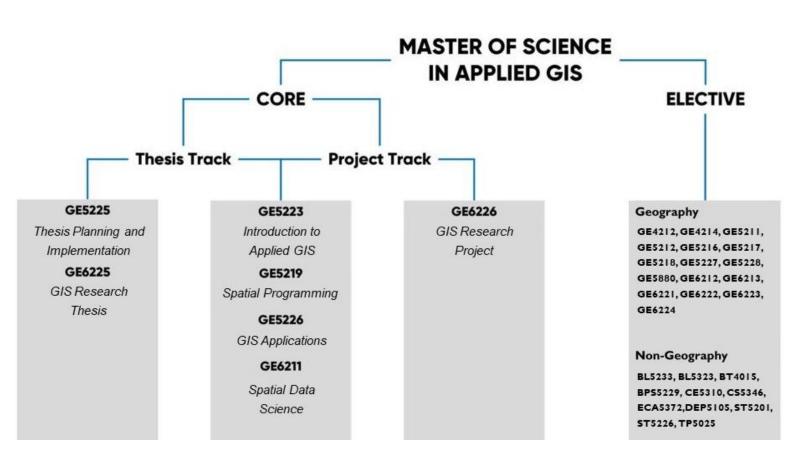
Students are required to complete 40 units (or 10 courses).

Core courses (4 courses):

- Intro to Applied GIS
- Spatial Programming
- GIS Applications
- Spatial Data Science

Students need to choose between:

- Thesis Track (eq. 4 courses)
- Project Track (eq. 2 courses)



## **Thesis & Project Tracks**

 A student-led independent work conducted under the supervision of an advisor.

#### Thesis Track

- 3-course equivalent
- & 1 course for Thesis planning
- Academic & Research intensive

## Project Track

- 2-course equivalent
- Applied & Practical
- Modeled after a consultancy project for working adults
- Allow students to take 2 more courses

## Admission

The online application for the **August 2025 admission** opens from **1st November 2024** to **31st January 2025**.

Application: <a href="https://gradapp.nus.edu.sg/portal/app\_manage">https://gradapp.nus.edu.sg/portal/app\_manage</a>



#### **Tuition Fee**

The tuition fee for AY2025-26 intake is **\$\$50,085** (GST inclusive) for all students irrespective of nationality.

#### **International Students**

All international students must hold a valid Student's Pass (SP) issued by the Singapore Immigration &

Checkpoints Authority (ICA) for their studies at NUS. For full-time students only.

https://osa.nus.edu.sg/services-support/administrative-services/student-pass/

## PhD and Master by Research

PhD and Master by Research is a programme offered by the Department of Geography, NUS. Master by Research is a 2-years programme.

https://fass.nus.edu.sg/geog/graduate-introduction/

Geography recruits graduate research students through two intakes per year:

- August intake: November 1st of the previous year
- January intake: May 15th of the previous year More info about the applications:

https://fass.nus.edu.sg/geog/application/









TANJUNG





For more details:

- Courses, programme structure
- Admission requirements
- Fees

GKALANBUN

- Graduation requirements
- Application progress



## **Thank You**

**Terima Kasih** 





**Application** 



