Lixian SU

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EDUCATION BACKGRAOUND

South China Normal University (SCNU) Bachelor's degree   2016.09-2020.06

School of Geography

❖ **Major**: Geographic Information Science;

National University of Singapore (NUS) Master's degree   2021.08-2022.09

Faculty of Arts and Social Science

❖ **Major**: Applied GIS;

❖ **Computer Skills**: National Computer Rank Examination-Level 2 (Python), College Computer Test-Level 2 (Access database); good command of MS Office Software, Photoshop, After Effects, Audition, Premiere, ArcGIS, ENVI; programming languages like C++, Python

❖ **Languages Proficiency**: Mandarin & Cantonese (native); English (advanced-**TOEFL91, IELTS 6.5**);

❖ **Scholarship:** 2016-2017 SCNU School-level Third-level Scholarship

RESEARCH EXPERIENCE

Undergraduate Innovation and Entrepreneurship Project   2018.07-2019.07

Research on residential care services and nursing staff in urban communities based on spatial accessibility: Taking Guangzhou's old city as an example

Team Member, Supervisor: SONG, Tao

❖ Responsible for preliminary literature review, selection of research topic and preparation of the project,

❖ Visited the residential care service centres to study the accessibility of facilities, designed and distributed questionnaires to collect data on the elders' needs

❖ Collected geospatial information of Guangzhou using OpenStreetMap and marked the location of care service centres in GIS

❖ Applied a self-developed scale based on the data collected, applied Weibull Distribution to find out the accessibility, responsible for data visualization and mapping

❖ Summarised research results and prepared presentation for the project

❖ Recognised as the highest-rated project at the provincial level in mid-term review

Chengyuan Model Design Competition for Urban Planning and Decision-making

China Urban Planning Association   2019.04-2019.06

Research on Benefit Evaluation of Urban Renewable Green Space and Optimal Layout Strategy

Team Member, Supervisor: Professor FU, Yingchun

❖ Engaged in collection and processing of remote sensing data, including Landsat and Sentinel II

❖ Responsible for interpreting the remote sensing images using Envi, analysing pixel information, making geometric correction, atmospheric correction etc.

❖ Input data to ArcGIS for calculation, visualisation and mapping

❖ Participated in paper composition and summarised literature

❖ Won the Third Prize of the competition, submitted the paper to academic journal

The 1st Workshop of Asian Young Geographers

Bus service adjustment under the drivers' infection outbreak in Singapore   2021.11-2021.12

Team Member, Supervisor: *Professor Luo, Wei*

❖ Engaged in collection and processing of bus data, including making a web crawler and processing data.

❖ Responsible for Python coding. Leveraged Python library, Arcpy, to build up an executable model script.

- ❖ Input data to ArcGIS for calculation, visualisation, and mapping
- ❖ Participated in paper composition and summarised literature
- ❖ Engaged in the workshop presentation.

SOCIAL PRACTICES

Summer Social Practice Activities, SCNU   2018.07

Team leader
- ❖ Conducted voluntary teaching trip to Matang Primary School in Pengzhai Town, Heyuan City
- ❖ Visited local left-behind children, supported education in the countryside through summer courses

Guangzhou Bangcheng Information Technology Company   2019.06-2019.10

Intern for data processing
- ❖ Completed ad hoc tasks using Python-based crawlers, data cleansing tools, batch modification of field names, etc.
- ❖ Applied GIS to map data in various projects, such as the types of land use in Dongguan City
- ❖ Perform data analysis on remote sensing images using GIS

Geography Department, Faculty of Art and Social Science, NUS   2022.09-Present

Research Assistant
- ❖ Geographic data processing and Python-based data handling
- ❖ Generating Phylogenetic Tree for type A influenza (H1N1/H3N2), type B influenza (Yamagata/Vitoria), Dengue, etc.
- ❖ Virus sequence processing and Phylogeographic Analysis

STUDENT WORK

Student Union of School of Geography, SCNU   2016.09-2018.06

Leader of the Culture and Entertainment Department
- ❖ Promoted to Leader of the Culture and Entertainment Department a year after joining the student union
- ❖ Responsible for organising all cultural and sports activities in the school

Art Troupe of Youth League, School of Geography, SCNU   2016.09-2018.06

Deputy Leader of the Singer Team
- ❖ Participated in singing activities in the university on behalf of the School of Geography

Communist Youth League Committee, School of Geography, SCNU   2018.06-2018.11

Leader for research
- ❖ Led the research on *The Site Selection of Rural Infrastructure Based on AHP-GIS Model: Taking Matang Village as an Example*
- ❖ Responsible for identifying research topic, team organization and division of work, remote sensing image collection, data processing, research report writing and results presentation

AWARDS

- ❖ 2017-2018 Outstanding Student Cadre of School of Geography, SCNU
- ❖ Third prize of Chengyuan Model Design Competition for Urban Planning and Decision-making
- ❖ Excellence Prize of the 3rd "Zhonghaida" Measurement Skills Competition, School of Geography, SCNU
- ❖ Second Prize of the 4th "Zhonghaida" Measurement Skills Competition, School of Geography, SCNU
- ❖ Third Prize of GIS Professional Skills in the 7th Geographical Science Competition, School of Geography, SCNU
- ❖ First Prize of Resource and Environment Professional Skills, and Second Prize of GIS Professional Skills in the 9th Geographical Science Competition, School of Geography, SCNU
- ❖ The second prize of 2018 Summer Social Practice Survey Competition, School of Geography, SCNU