YAO-TING (LENA) YAO

SKILLS

- Programming: Python, SQL, R, HTML
- Software: ArcGIS Pro, ArcMap, ArcGIS Online, QGIS, TerrSet, Google Earth Engine, GitHub, RStudio, PostgreSQL, PostGIS, Jupiter Notebook, StarUML, GeoDa
- Technical: spatial analysis, cartography, image classification, machine learning

RELEVANT COURSE WORK

Advanced Vector GIS, Spatial Database Development in Practice, Geospatial Analysis With R, Python, Programming for GIS, Intro to Remote Sensing, Statistics, Quantitative Geography

ESRI MOOC COURSE: Spatial Data Science-The New Frontier in Analytics, Do-It-Yourself Geo Apps, Cartography

EXPERIENCE

- **Research Assistant**, Jan 2022–Now

Clark Labs
- Work on Coastal Habitat Mapping project with the Gordon and Betty Moore Foundation. Create land-use map with Mangrove, Wetland, and Pond Aquaculture by using MLP and Mahalanobis supervised classifications in TerrSet Software.

- **Administrator**, Sep 2017–Jun 2018

Land Administration in Keelung City Government
- Interoperated satellite and aerial images to exam illegal land use, such as illegal gravel mining.
- Appropriated public land use planning. Communicated with different bureau of government by understanding what they needed, their budget under land-use regulations.
- Assisted meetings within the Land Administration, and with GIS company to rezone all land data and correct all out-of-date spatial data into new functional zones.

- **Assistant Administrator**, Dec 2015–JUL 2017

Land Administration in Taipei City Government
- Analyzed land-use statistics and wrote annual reports.

- **Project Leader**, Sep 2010–Jun 2015

Taiwan Assoc. of Comprehensive Arts Development
- Led group counseling for social minority groups, including domestic violence support group and mental illness recovery support group in Taiwan and China.

- **Vice Director,** Sep 2003–Jun 2004

Student Association of Geography Department in National Taiwan University
Hosted events and outings to help students connect with each other.

Contact

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https://leannayao.wixsite.com/lenayao

EDUCATION

Master of Science, Geographic Information Science, 2023, Clark University. **GPA: 3.95**

Master of Science, Geography with Urban Geography, 2010, National Taiwan University. **GPA: 4.0**

Bachelor of Science, Geography, 2006, National Taiwan University. **GPA: 3.7**

LANGUAGES

Mandarin(native), English (advanced), Korean (intermediate), Japanese (beginner)

CONFERENCE PAPERS

5th East Asian Regional Conference in Alternative Geography, Seoul, South Korea, (presented in English)
Against The Urban Entrepreneurialism: A Case Study of Lo-Sheng Preservation Movement in Hsin-Chuang City, Dec 2008

10th Annual Conference of Cultural Studies Association, Taipei, Taiwan
Disease, Emotion and Space: Deconstruction of the Zero-Sum Game Context between Hsin-Chuang Residents and Lo-Sheng Preservation Movement, Jan 2009

AWARDS

International, Development, Community, and Environment Scholarship 40% Tuition, Clark University, Aug 2021

President's Award of College of Science, National Taiwan University, Jun 2006

Academic Excellence Award, National Taiwan University, Jan 2004, Jan 2005, and Jun 2006