

CLICK TO KNOW MORE



Geospatial Support Services in Academia: Empowering Geospatial Science and Technology Adoption

MIRIAM OLIVARES, GISP

Geospatial Support Services, Computational Methods and Data

Yale university library







Keep your hands up if your organization offers

geospatial support services



"Geospatial support services offer foundational support and a new form of capacity building - for the workforce of tomorrow"

GeoForce 5

Yale university library

Empowering Geospatial Science and Technology Adoption

TRAINING

FILLING THE GAP IN GEOSPATIAL

CURRICULA

CONSULTATIONS

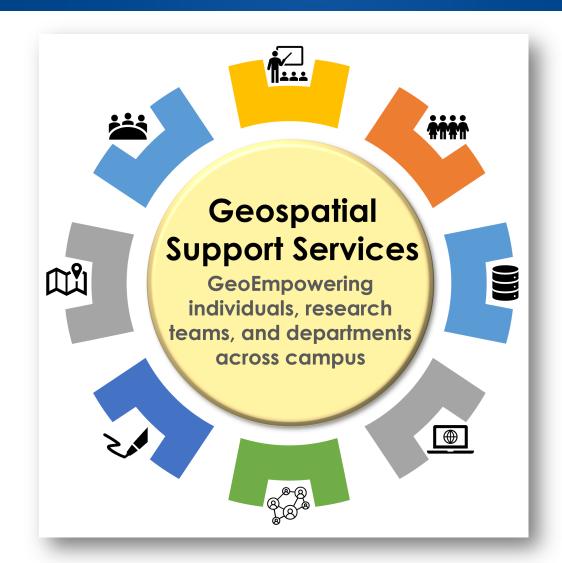
GUIDING GEOSPATIAL USERS TO ESTABLISH METHODOLOGIES AND SOLUTIONS

GEOINQUIRIES

RESPONDING TO USER QUERIES WITH GEOSPATIAL INSIGHTS AND SOLUTIONS

GRANT WRITING

ROVIDING EXPERTISE AND RESOURCES FOR THE GEOSPATIAL ASPECTS OF RESEARCH PROPOSALS



GEONETWORKING

FOSTERING GEOSPATIAL COMMUNITY
COLLABORATION AND KNOWLEDGE
SHARING

SPATIAL DATA DISCOVERY

GUIDING USERS IN FINDING RELIABLE SPATIAL OPEN AND LICENSED DATA

SOFTWARE ASSESSMENT

ADVOCACY AND TESTING OF NEW SOFTWARE TO SUPPORT CUTTING-EDGE GEOSPATIAL ANALYSES

OUTREACH

INTRODUCING GEOSPATIAL
TECHNOLOGIES, SHOWCASING APPS, AND
FOSTERING LEARNING AND USE

Empowering Geospatial Science and Technology Adoption

GRANT WRITING TRAINING GEONETWORKING SOFTWARE ASSESSMENT



GEOINQUIRIES

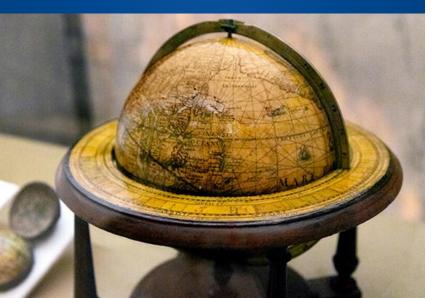
CONSULTATIONS

OUTREACH

SPATIAL DATA DISCOVERY

Empowering Geospatial Science and Technology Adoption

APPLICATIONS



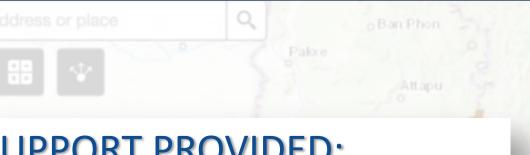
Selected Yale projects

Mapping 25+ Years of Research

Faculty member, HISTORY

Used elevation models

Mapped villages, prisons, massgrave sites, memorials, bombing points, etc.



SUPPORT PROVIDED:

- CONSULTATIONS:
 - PROJECT ADVISING
- DATA CURATION
- WEB-MAPPING CREATION
- SERVER INFRASTRUCTURE
- DATA MANAGEMENT
 - **DATA STORAGE**
 - **DATA DELIVERY**

Bombing points Number of features > 3,1281,500 Prisons Memorials Burial sites

Mapping Health Justice

Clinician Scholar, MEDICINE

New research finds that som rural patients have to drive a long as two hours to access methadone treatment, whic could be mitigated by new regulations.



- INSTRUCTION
 - WEB-MAPPING TOOLS AND PRINCIPLES
 - GEOCODING
 - NETWORK ANALYSIS

Digitazing Dissertation Data

Ph.D. Candidate, ECONON

Digitized radio signal zon from a 1949 map

Spent about three weeks complete the polygons

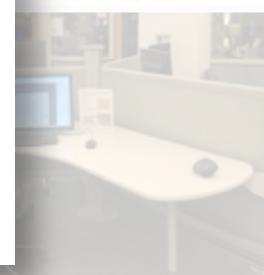
SUPPORT PROVIDED:

- CONSULTATIONS
 - PROJECT ADVISING
 - TROUBLESHOOTING
- INSTRUCTION
 - DESKTOP TOOLS AND PRINCIPLES
 - GEOREFERENCING MAPS
 - DIGITIZING
 - EDITING ATTRIBUTE TABLE
 - CALCULATE AREA



(b) Residualized field strength

lized field strength. Panel (a) shows the AM wave field mental variable for radio exposure. I digitized the map anel (b) shows the spatial distribution of residualized I strength is obtained by regressing field strength on the namitter fixed effects, and all the other district charach density and industrial composition.



Outcestary, the Culture Setuman on Cemera Economics, the Rode Description and Economics Lineary Setuman, the National Chandrage Institute for Japanese Studies, and the University of California Berkeley, In addition, I would like to thank Haruko Nakamura at the Yale East Asia Library for providing access to prefectural yearbooks, Miriam Olivares at the Yale Center for Science and Social Science for ArcGIS support, the StatLab and the Digital Humanity Lab at Yale University Library for their consultative support on map digitization, Kazuo Kishimoto for sharing with me the digitized Population Census data and the House of Representatives election results, and Ayumi Sudo for excellent research assistance. Finally, I acknowledge funding for digitizing historical materials from the Cowles Foundation. All mistakes are my own.

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Ancient Civilizati • INSTRUCTION

Scientist, MUSEUN

3D models

SUPPORT PROVIDED:

- Mapping consultations
 - PROJECT ADVISING
 - - DESKTOP TOOLS AND PRINCIPLES
 - DRONE TO MAP TOOL
- Fly drones and g

 LICENSE ACQUISITION
 - NETWORKING FOR ACCESS TO EXPERTISE

Plans to map facsimile of

the De materia medica¹

Yale's MCDB 221L





Running Through the 6 with ArcGIS: Income & Healthcar...



A Geospatial Investigation of
Household Income and...



Environmental Health
 Disparities and...



The Correlation Between
Diabetes & Socio-Economic.

SUPPORT PROVIDED:

Teaching • 6-WEEK COURSE EMBEDDED ACCELERATOR

a Biology • INSTRUCTION

Scientist and Lect MOLECULAR, CELLU DEVELOPMENTAL B

Accelerat

64 Undergraduat

15 teams/projec

- 15 TEAMS/PROJECTS
 - TEAM GIS CONSULTATIONS
 - METHODOLOGY ADVISING

Report: Students using GIS

for research; others

securing jobs

Some stats

WE ARE BUSY GEOEMPOWERING YALE MEMBERS



60-Minute Consultations

1,510 via LibCal

(automated reservation system)



ServiceNow GIS Help Tickets

595 resolved tickets

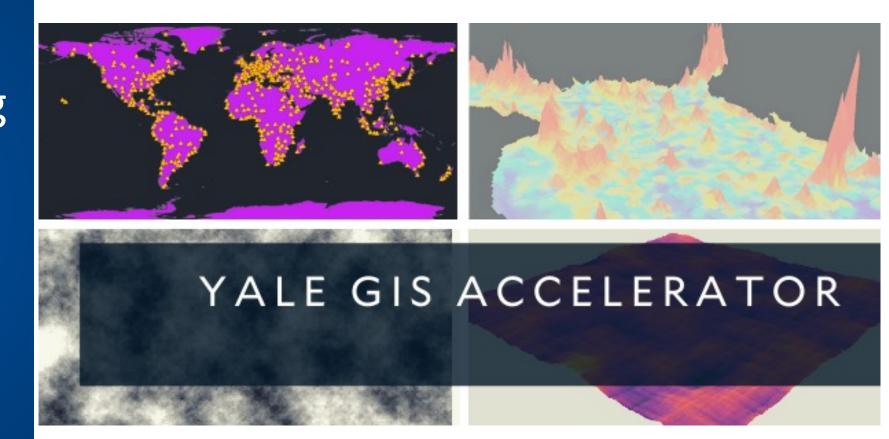


Email to GIS Librarian

Countless

1-week intensive geospatial training

40 participants per session



Esri software usage

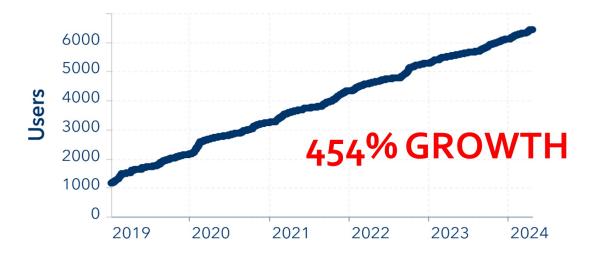
Yale Vale University's Esri ArcGIS Usage

Please visit Yale Library's GIS Support Services to learn about Yale's GIS resources

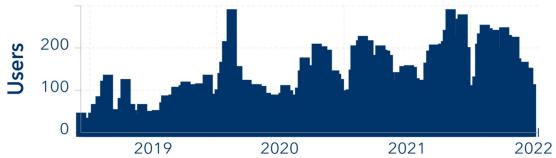
Total Registered Users

6,449

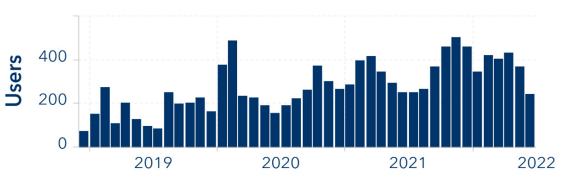
(4,300+ ACTIVE NETIDs)
Registered Users by Day



Unique Logins by Week



Unique Logins by Month



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Yale Launched a New Geospatial Center

Mission:

To create geospatial knowledge that solves humanity's most pressing challenges.



GeoForce 5



GeoForce 5

Empowering Geospatial Technology Adoption in Academia

March 26, 2024

Our Vision 5 Pillars The Approach Our Workshops How to Engage Meet the GeoForce 5 Team Join GeoForce 5 Reso