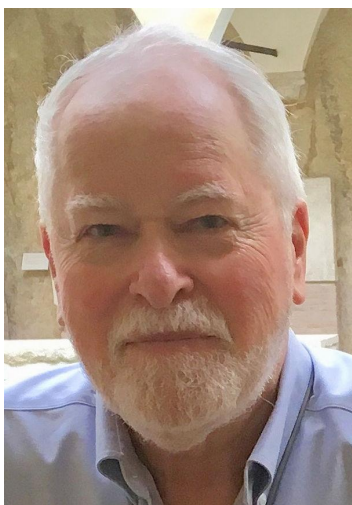


Naujausios Niujorko studentų žemėlapių pateikimo ir kartografinio švietimo tendencijos

Vilnius: 2022 m. lapkričio 25 d.
CartoCon

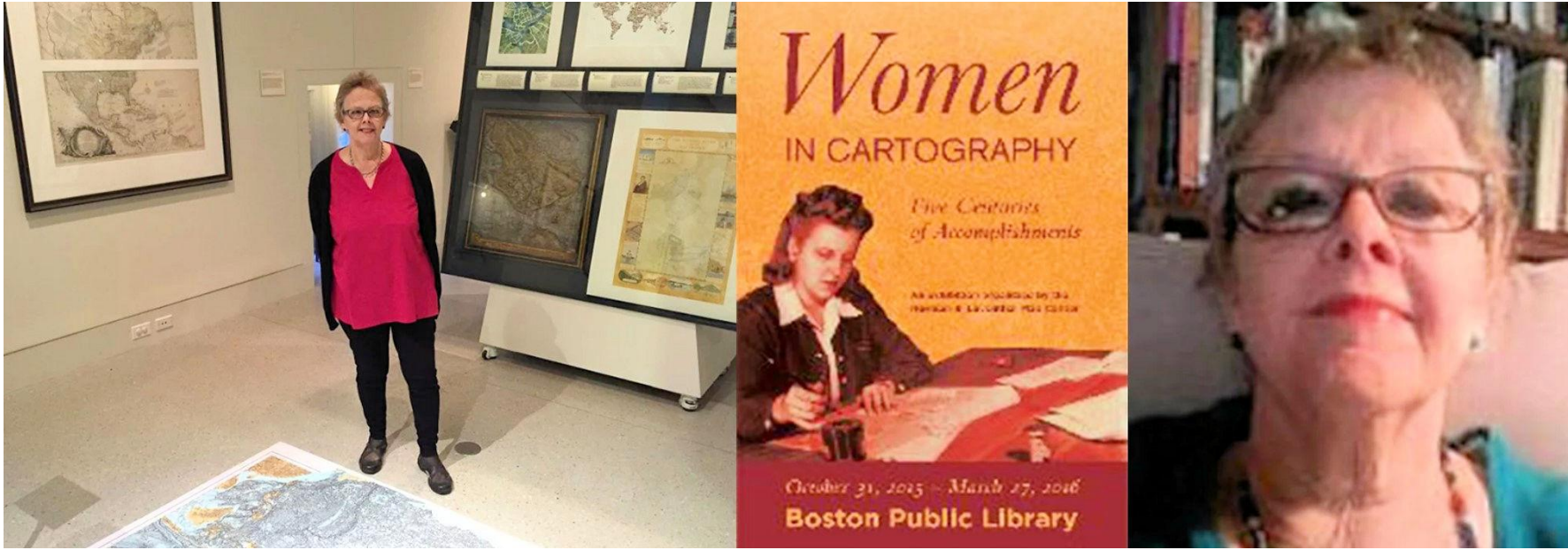


Andrius Kapočiūnas / Andrew Kapochunas
LithuanianMaps.com / LithuanianJournal.org / New York Map Society

Part I: Hunter College graduate student submissions to the New York Map Society “Alice Hudson Map Awards”

Part II: Current cartographic-related classes at New York area colleges and universities

Alice Hudson



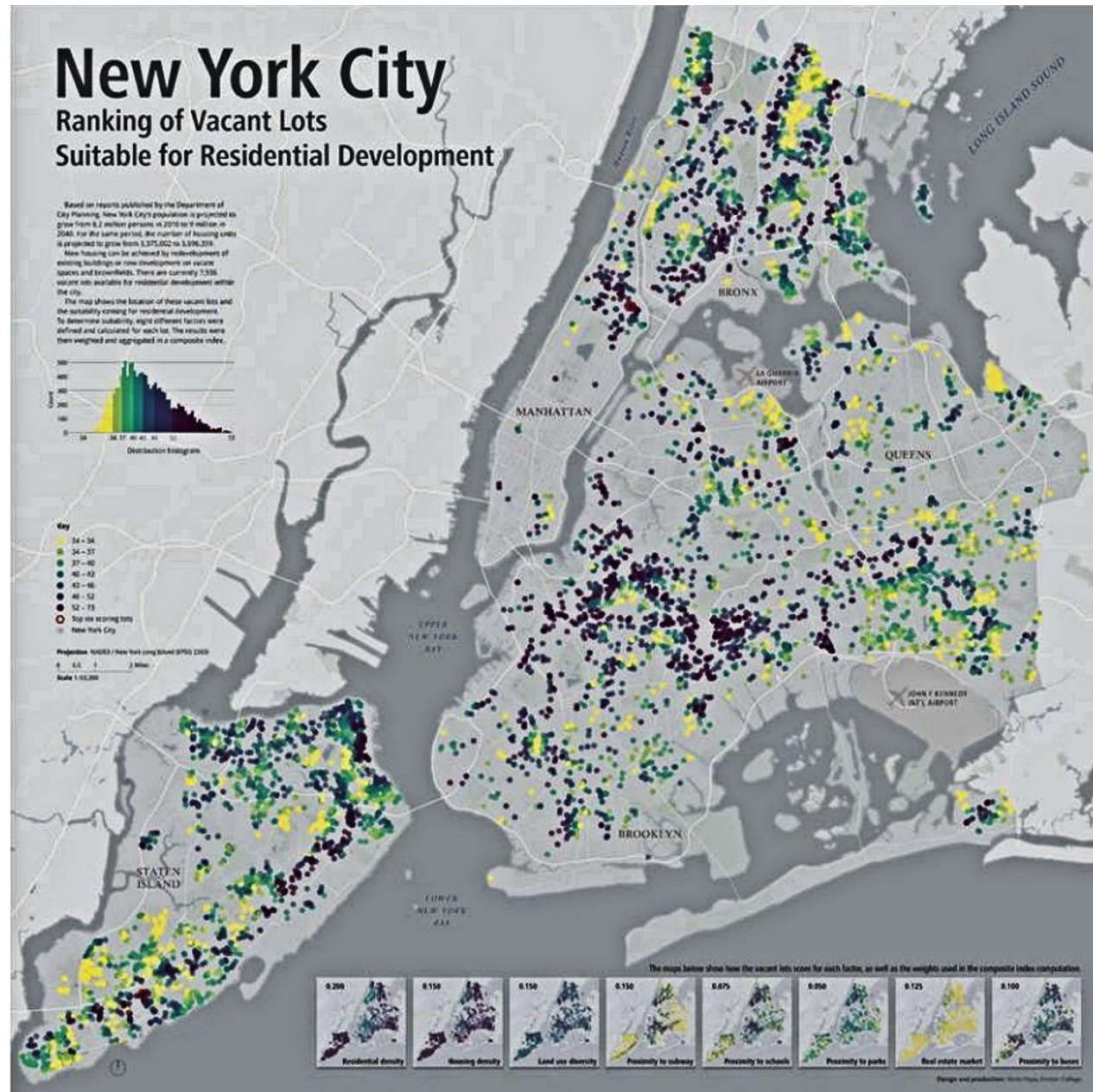
- 1970-2009: Chief, New York Public Library Map Division
 - 433,000+ maps (20,000 Open Access), 20,000 map books/atlasses
- 1978: Co-Founder, New York Map Society
- 1994: Author, “Historical Atlas of New York City”
- 2015-16: Curator, “Women in Cartography,” Boston
- Teacher: Univ. of Virginia, Pratt, Hunter College

The New York Map Society's **Alice Hudson Map Awards** have been awarded each year since 2018 to students at The City University of New York's Hunter College School of Geography and Environmental Science.

Submissions are judged by a panel of teachers and New York Map Society directors, with a winner for both a printed/static map and a digital map.

Recent submissions and winners follow:

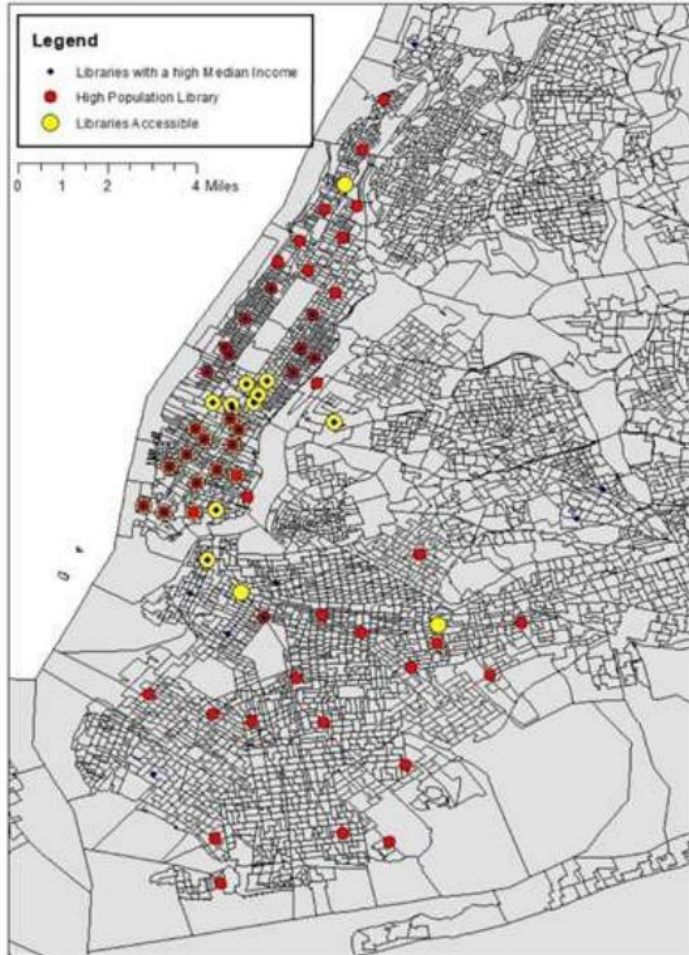
Just two years ago, as the Covid pandemic started, submissions for the printed and interactive map categories followed a familiar pattern, using either publicly-available or historical data.



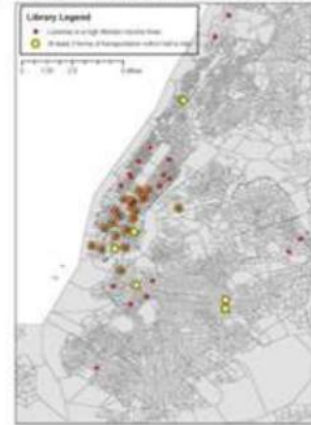
2020
Static Map
Submission:
Horia Popa

“Location of accessible public libraries in densely-populated high-income areas”

Accessible, High Median Income, High population Libraries



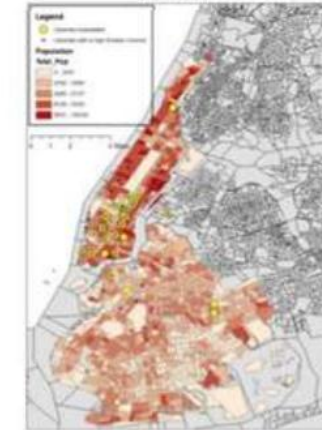
Libraries with at least 3 forms of public transportation within half a mile and libraries in high median income districts



Libraries with at least three forms of transportation inside and outside of a half mile radius



Accessible Libraries and high median income libraries with population



The criteria on this map for accessible libraries are those with at least one form of transportation within a half mile difference. These are bus stops, train stations and bike lanes.

The population is considered high if it has over 4,365 people per area in the census tract.

An area is considered to have a high median income if the area in the census tract is above 44,151 dollars

2020
Static Map
Submission:
Kimora
President



The 7th century pilgrimage of a Chinese Buddhist monk

Journey to the West

Xuanzang (Chinese: 玄奘; fl. c. 602–664) was one of the most famous Chinese Buddhist monk, scholar, traveler, and translator who traveled to India in the seventh century and described the interaction between Chinese Buddhism and Indian Buddhism during the early Tang dynasty.

In A.D 629, he started his journey from Chang'an, where the capital city was in the Tang Dynasty. When he had arrived at his destination forward to India, Nalanda Temple, it was A.D 636, 7 years had passed

This map shows the pilgrimage routes he had walked and the territory of each country at different ancient times.



The changing political landscape



In AD 637, Xuanzang started his travel in Tianzhu (India), visited many different Kingdoms (City-States). By the summer of 641, he finished his travel and back to Nalanda. At the invitation of Hindu king Kumar Bhaskar Varman, he went east to the kingdom of Kamarupa. Later, the king escorted Xuanzang back to the Kannauj at the request of king Harsha, who was an ally of Kumar Bhaskar Varman, to attend a great Buddhist Assembly there which was attended by almost entire Indian buddhist monks, Brahmins and Jains. After the Assembly he visited Prayag, and returned to Kannauj where he was given a grand farewell by king Harsha. Traveling through the Khyber Pass of the Hindu Kush, Xuanzang passed through Kashgar, Khotan, and Dunhuang on his way back to China. He arrived in the capital, Chang'an, on the seventh day of the first month of 645, 16 years after he left Chinese territory, and a great procession celebrated his return

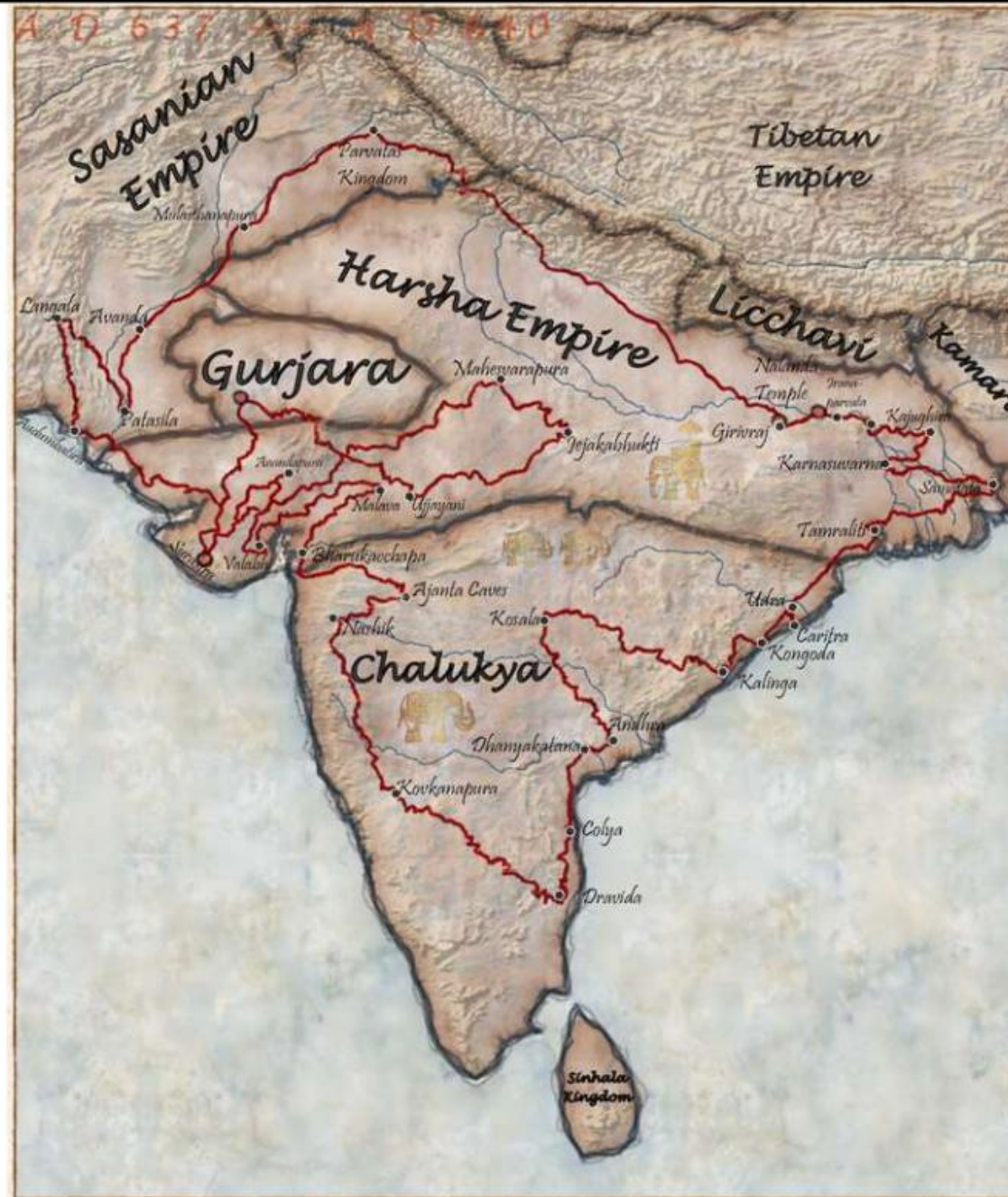
On his return to China in early AD 645, Xuanzang was greeted with much honor but he refused all high civil appointments offered by the still-reigning emperor, Emperor Taizong of Tang. Instead, he retired to a monastery and devoted his energy in translating Buddhist texts until his death in AD 664.



The originally planned journey to ancient India, with the final destination of Nalanda Temple



XuanZang's
exploration and
adventure within
the sub-continent
of India



Xuanzang's journey
back to Chang'an,
capital of the
Tang Dynasty
during
Emperor Taizong's
reign



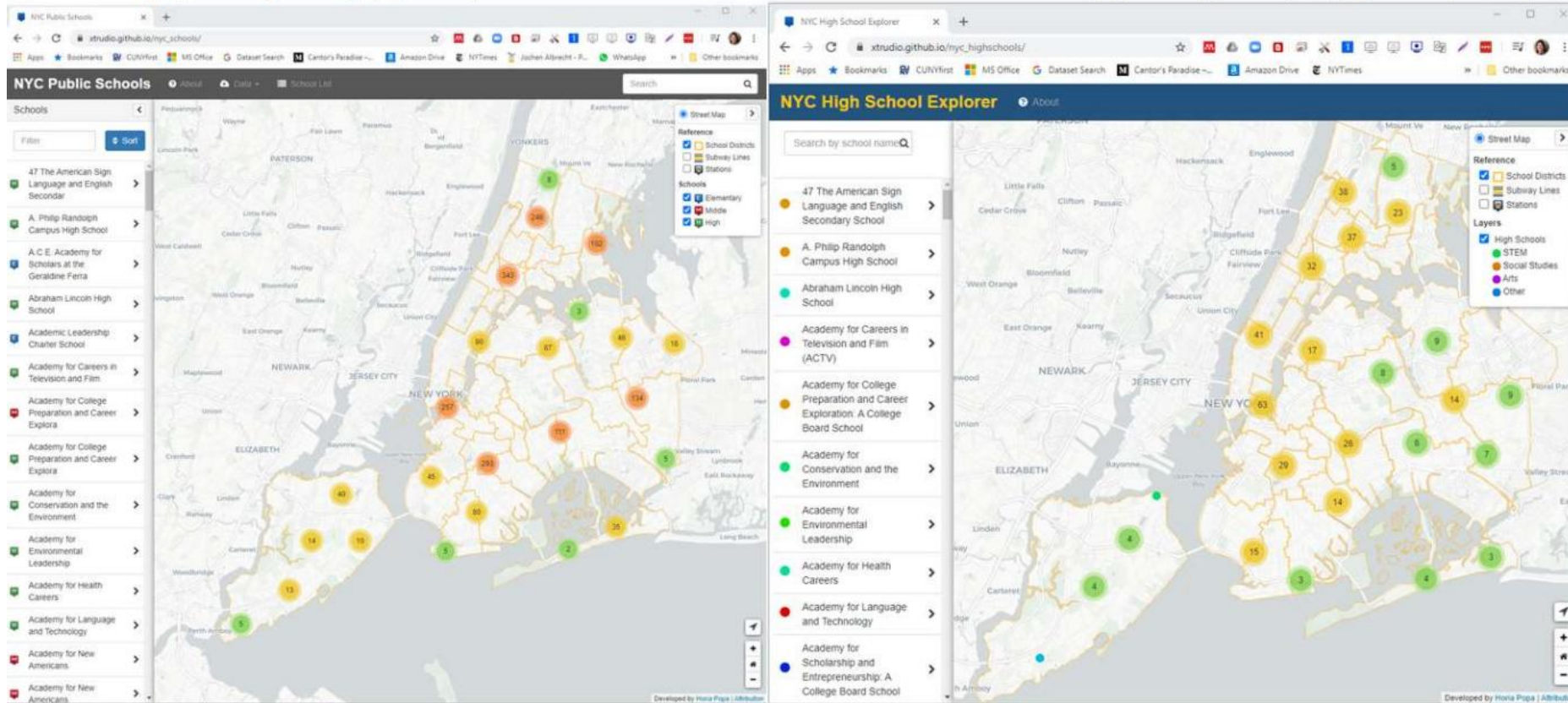
Public School Explorer

https://xtrudio.github.io/nyc_schools/

Horia Popa

High School Explorer

https://xtrudio.github.io/nyc_highschools/

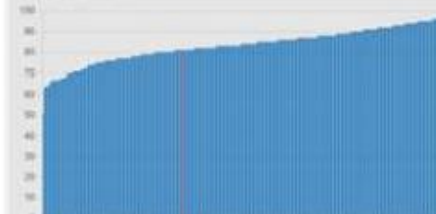


"I created this web mapping application to help parents choose their preferred elementary or secondary school for their children. It provides comprehensive information as well as links to school websites and Department of Education pages."

2020
Interactive
Map
Winner:
Horia Popa

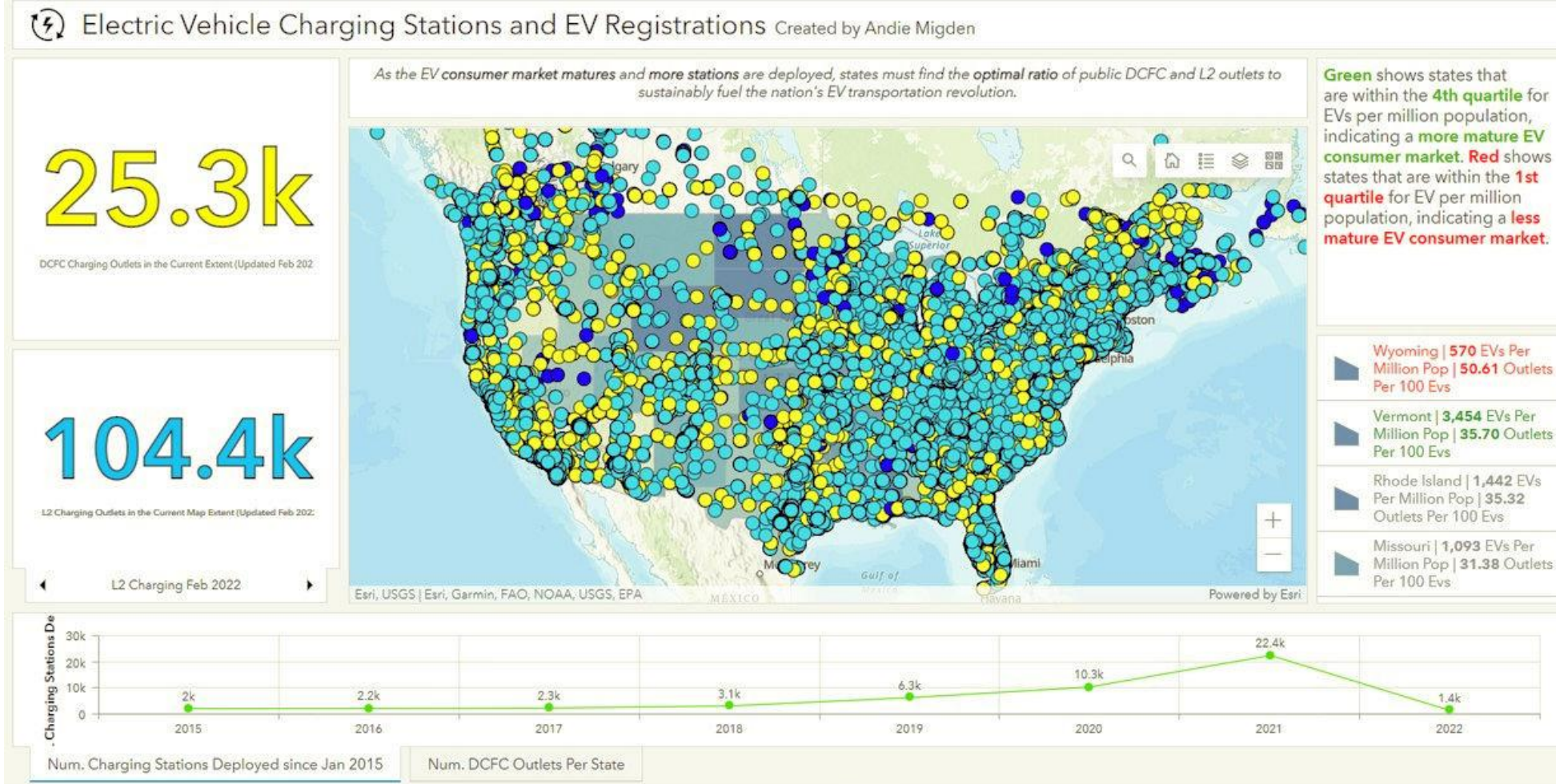
Bronx High School for
Law and Community >

Curriculum Mix Comparison Chart



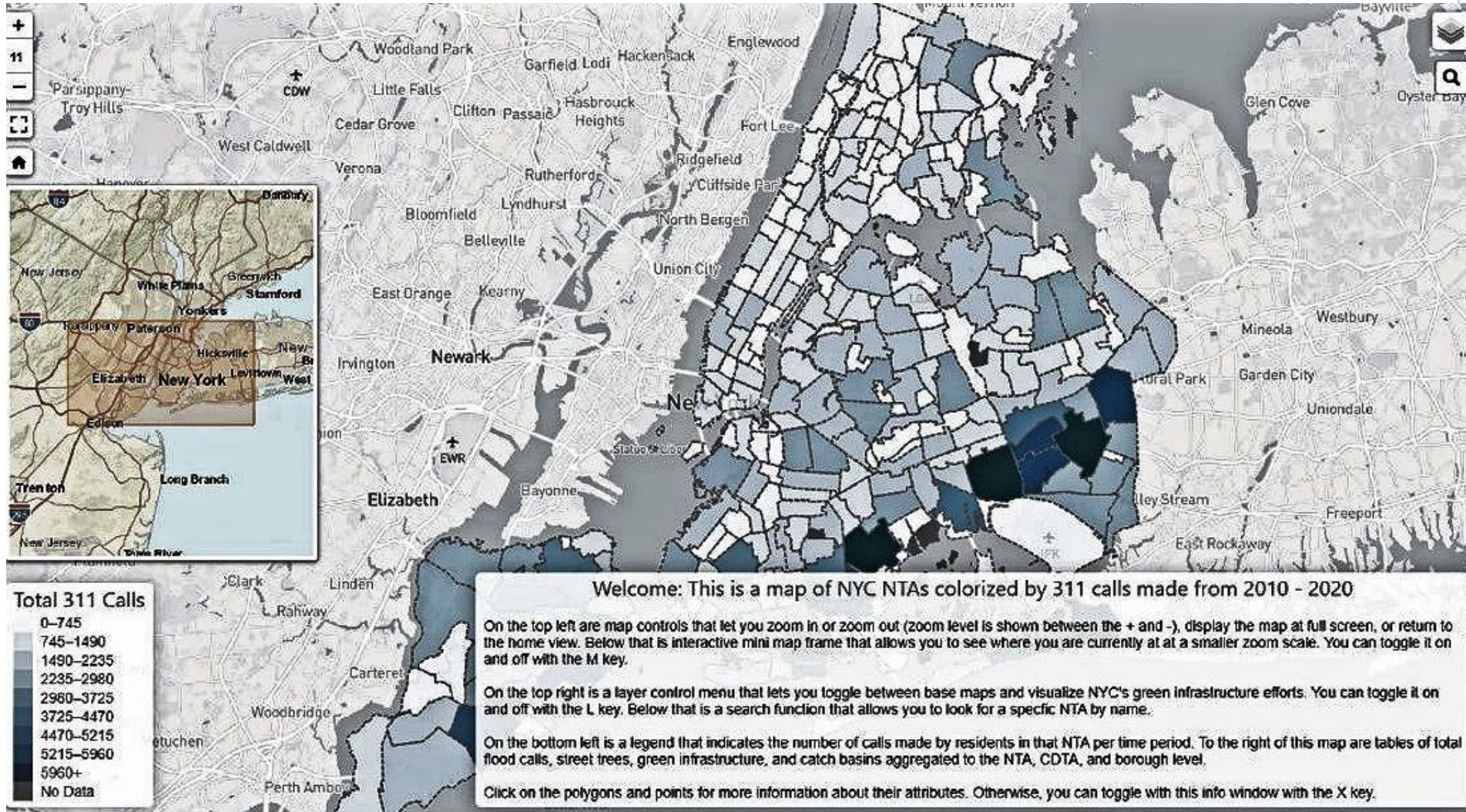
Programs	College Trips; Extended Day Program; Extended Day Program (Credit Recovery); Extended Day Program (Tutoring); Internships; Online Grading System; Saturday Programs; Student Parent Orientation
----------	---

2022
Interactive Map
Submission:
Andie Migden



Software used: Esri's ArcGIS Pro; Dashboard theme through ArcGIS Online

2022 Interactive Map Winner: Gowri Anand



This map, which allows individuals, city planners and builders to identify flood-prone areas was easy to use, with many practical applications

Software used: PostgreSQL, Microsoft Visual Studio Code

Part II:

Current cartographic offerings at New York-area colleges and universities show a definite focus

New York may be the largest city in the US by far
(#1 at 8.9MM, vs. #2 Los Angeles at 3.9 MM)

but it is not the US center of Geography/ Cartography/ GIS

Best US Schools for Geography/Cartography/GIS*

Best in the US*:

- #1. Univ. of California (UCLA), Los Angeles, California
- #19. Colgate University, New York State

Best in New York State*:

- #1: Colgate University
- #8: Hunter College

Best in New York City**:

- #1: Hunter College

**Collegefactual.com*

***My personal view*

- New York University
- Columbia University
- Hunter College (18,000) @ CUNY (200,000+)
- The New School (10,254)
- Seidenberg School of Computer Science and Information Systems (620) @ Pace Univ. (12,843)

**NYU**[About NYU](#)[Admissions](#)[Academics](#)[University Life](#)[Research](#)[Search](#)

GIS and Mapping

[Artificial Intelligence](#)[Big Data Analytics](#)[Digital Humanities](#)[GIS and Mapping](#)[Globus Data Transfer Node](#)[High Speed Research Network \(HSRN\)](#)[Machine Learning](#)[Qualitative Data Analysis](#)[Quantitative and Statistical Analysis](#)[Research Workspace](#)[Secure Research Data Environment \(Pilot\)](#)[Virtual Reality / Augmented Reality](#)

About GIS and Mapping

The GIS and Mapping support team provides lab and personal access to software, training, consultation, and support for geographic information systems (GIS) software packages ArcGIS, CARTO, StoryMaps, Google Earth, and more. A geographic information system (GIS) is a system designed to capture, store, manipulate, analyze, manage and present all types of geographically referenced data. GIS enables users to integrate various data into one system, overlay map layers, analyze and model spatial data and, finally, visualize the results in maps, reports and charts. GIS can be used to represent any data which has a geographic component and is currently utilized in many fields including urban and regional planning, disaster planning and emergency management, natural resource management, environmental planning, public health, public utility, engineering, weather forecasting, history, archeology, political science, food science, housing, and many more.

At New York University, GIS and mapping are available support functions for faculty and 51,000 students, not degree programs.

Target Audience

NYU faculty, staff, and students wishing to use GIS software

Locations Offered

Abu Dhabi, Accra, Berlin, Buenos Aires, Florence, London, Madrid, New York City, Paris, Prague, Shanghai, Sydney, Tel Aviv, Washington DC



The Columbia Climate School's mission is to develop and inspire knowledge-based solutions and educate future leaders for just and prosperous societies on a healthy planet.

Columbia offers its 31,000 students enrollment in a Climate School, established July 2020, and a focus on Geoscience - *just not in New York City.*



Geoscience: Geography and Geoscience

In the first two years at Trinity students will acquire a broad grounding in [geography and geoscience](#)  with an emphasis on physical geography, geology and human-environment interactions. Topics of study include climate change, natural hazards (e.g. volcanoes, earthquakes, landslides), energy, sustainability and natural resources. These foundation years cover a diverse range of material including: the origins and development of our planet; earth structure and composition; circulation in the atmosphere and oceans; the evolution of life on Earth; Earth surface processes and environments (e.g. glaciers, rivers and deserts). Students will also undertake a field course and expand their knowledge in social science and a language.

First two years:
Trinity College,
Dublin, Ireland,
majoring in
geography &
Geoscience.

Second two years:
Columbia, in New
York City, majoring
in Earth and
Environmental
Sciences.

City University of NY: Hunter College (18,000 students)



DEPARTMENT OF **GEOGRAPHY** AND **ENVIRONMENTAL SCIENCE**

HUMAN AND PHYSICAL GEOGRAPHY EARTH AND ENVIRONMENTAL SCIENCE GIS GEOINFORMATICS REMOTE SENSING

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**Geography and Environmental Studies Majors
address the most pressing issues humanity is facing today.**

Undergraduate Open House

Tuesday, October 18, 2022

Time: 2:30 - 3:45 pm

Location: HN 1022

RSVP by October 14 to Olivia Uszynski and Mimoza Frankfurt

(Olivia.uszynski85@myhunter.cuny.edu and mf111@hunter.cuny.edu)



CITIES AND GLOBALIZATION. DIGITAL MAPPING, GIS, AND GEOINFORMATICS. SUSTAINABILITY. EARTH SYSTEM SCIENCE. HUMAN DIMENSIONS OF EARTH SYSTEM. ENVIRONMENTAL POLICY. **Learn more.**



Courses

[Course Syllabi & Web Pages](#)

[1090B Lab Hours](#)

[Schedule of Classes](#)

Degree Programs

[Department Brochure](#)

[Academic Advising Schedule](#)

[BA Geography](#)

[BA Environmental Studies](#)

[BA/MA Environmental Studies &](#)

Degree Programs:

[BA Geography](#)

[BA Environmental Studies](#)

[BA/MA Environmental Studies &](#)

[Earth Science](#)

[GIS Certificate](#)

[MS GeoInformatics](#)

[MA Geography](#)

[MA TEP Earth Science](#)

[MA TEP Social Studies](#)

[PhD Earth & Environmental Sciences](#)

Hunter College MS in GeoInformatics

“The Master of Science in GeoInformatics is a science- and technology-based degree program that provides training for research and professional careers in local and national governments, international agencies, non-government organizations, corporations, consulting firms, and information technology companies as well as in academia.

“The focus on GeoInformatics, which combines Geographic Information Science (GISci) with Computational Science, makes the program unique within the New York City Metropolitan area.”

COURSE CATALOG

NINT
5380

GIS FOR INTERNATIONAL CRISES, DEVELOPMENT, AND THE ENVIRONMENT

SCHOOLS OF PUBLIC ENGAGEMENT: INTERNATIONAL AFFAIRS

Liberal Arts

Undergraduate Course
Graduate Course

Degree Students (with Restrictions)

GEOGRAPHIC INFORMATION SYSTEM

SPRING 2023

TAUGHT BY: STEPHEN METTS

SECTION: A

CRN: 2115

Credits: 3

This course provides an introductory foundation in desktop Geographic Information Systems (GIS) software for real-world scenarios and research questions in humanitarian relief, international development and environmental challenges. Students will learn to map, analyze and publish spatial information at regional and global scales using industry standard GIS tools. The cartographic, data management and spatial analysis skills that students will gain from this course are integral to the international development, urban and environmental planning fields.

College: Schools of Public Engagement (NS)**Department:** International Affairs (NINT)**Campus:** New York City (GV)**Course Format:** Lecture (L)**Modality:** In-Person**Max Enrollment:** 15**Add/Drop Deadline:** February 5, 2023 (Sunday)**Online Withdrawal Deadline:** April 16, 2023 (Sunday)**Seats Available:**  **Yes****Status:**  **Open***

GEOGRAPHIC INFORMATION SYSTEMS

FALL 2022

TAUGHT BY: STEPHEN METTS

SECTION: A

CRN: 2189

Credits: 3

This course provides an introductory foundation in desktop Geographic Information Systems (GIS) software for real-world scenarios and research questions in humanitarian relief, international development and environmental challenges. Students will learn to map, analyze and publish spatial information at regional and global scales using industry standard GIS tools. The cartographic, data management and spatial analysis skills that students will gain from this course are integral to the international development, urban and environmental planning fields.

College: Schools of Public Engagement (NS)**Department:** International Affairs (NINT)**Campus:** New York City (GV)**Course Format:** Lecture (L)**Modality:** In-Person**Max Enrollment:** 20**Add/Drop Deadline:** September 12, 2022 (Monday)**Online Withdrawal Deadline:** November 20, 2022 (Sunday)**Seats Available:**  **Yes****Status:**  **Closed***

The New School offers its 10,000 students a single GIS course limited to 15-20 within its International Affairs School.

Academic Catalog

SEIDENBERG SCHOOL OF COMPUTER SCIENCE AND INFORMATION SYSTEMS

Pace offers the 620 students at its Seidenberg School three courses.

- [Computer Science Major, BA](#)
- [Computer Science Major, BS](#)
- [Information Systems Major, BS](#)
- [Information Technology Major, BS](#)
- [Professional Computer Studies Major, BS](#)
- [Professional Technology Studies, BS](#)

Introduction to Mapping and Web GIS

Through hands on projects, students will use web-based data to build web mapping GIS applications, build mobile applications for field collection, and analyze results using the latest industry tools, such as Google Maps, Social Explorer, and the ESRI web mapping platform, ArcGIS Online.

Introduction to Location Intelligence and GIS

This course introduces Web-based tools for GIS, location intelligence, business analytics, and visualization. These tools can be leveraged in research in multiple business fields including retail, marketing, and decision support. Doing hands-on projects, students will use web-based data for mapping and analyze the data for market planning, site selection, customer segmentation, and risk assessment. Students will use the latest industry tools, such as ESRI's ArcGIS Business Analyst Online (BAO) as well as ArcGIS Online, which is a cloud mapping platform that gives users the ability to build, visualize and analyze geospatial models

Location Analytics and Web GIS

Geographic information systems are have become a necessary tool in decision making, visualization, and spatial analytics across a variety of disciplines and application domains. This course explores emerging cloud based GIS technology, location analytics, and web-based GIS solutions. Through hands on projects, students will used web-based data, build web GIS applications, use cloud-based services for location analytics, mobile applications and field collection applications.



“To change the world, you have to see the world:” Bobby Shackelton, New York Map Society, 20-year specialist in the intersection of Geospatial, Finance -- and now, *Climate*.

- Conceptualized and launched two of the first and most-used mapping products in finance.
- Created the first COVID-19 data solution in finance when only 7000 cases were reported globally.
- Invited by the UN and 16 of the largest banks in the world to collaborate and help define reporting standards for measuring Climate Risk (TCFD Physical Risk)
- Invented and productized the quantification of weather and climate statistics for publicly traded companies based on physical asset data.
- Authored and co-authored publications for the United Nations, World Bank, The Economist, Bloomberg, WWF, Waters Technology, Engineering & Technology Magazine, Datanami, Geospatial World, and more.



Climate Engine®

Solutions

Data

Resilience + Google

PARTNERSHIPS RESEARCH APP A

Leverage Earth Insights for Resilience.

Reach out to learn more.

Climate Engine's scientists tailor satellite data and API's for a variety of industry needs. Our work has been cited in numerous peer-reviewed publications.

Economic security depends on understanding and responding to change.

Responding to climate threats and building a sustainable future is dependent on all major sectors taking action to reduce climate related risks and improve their economic sustainability.

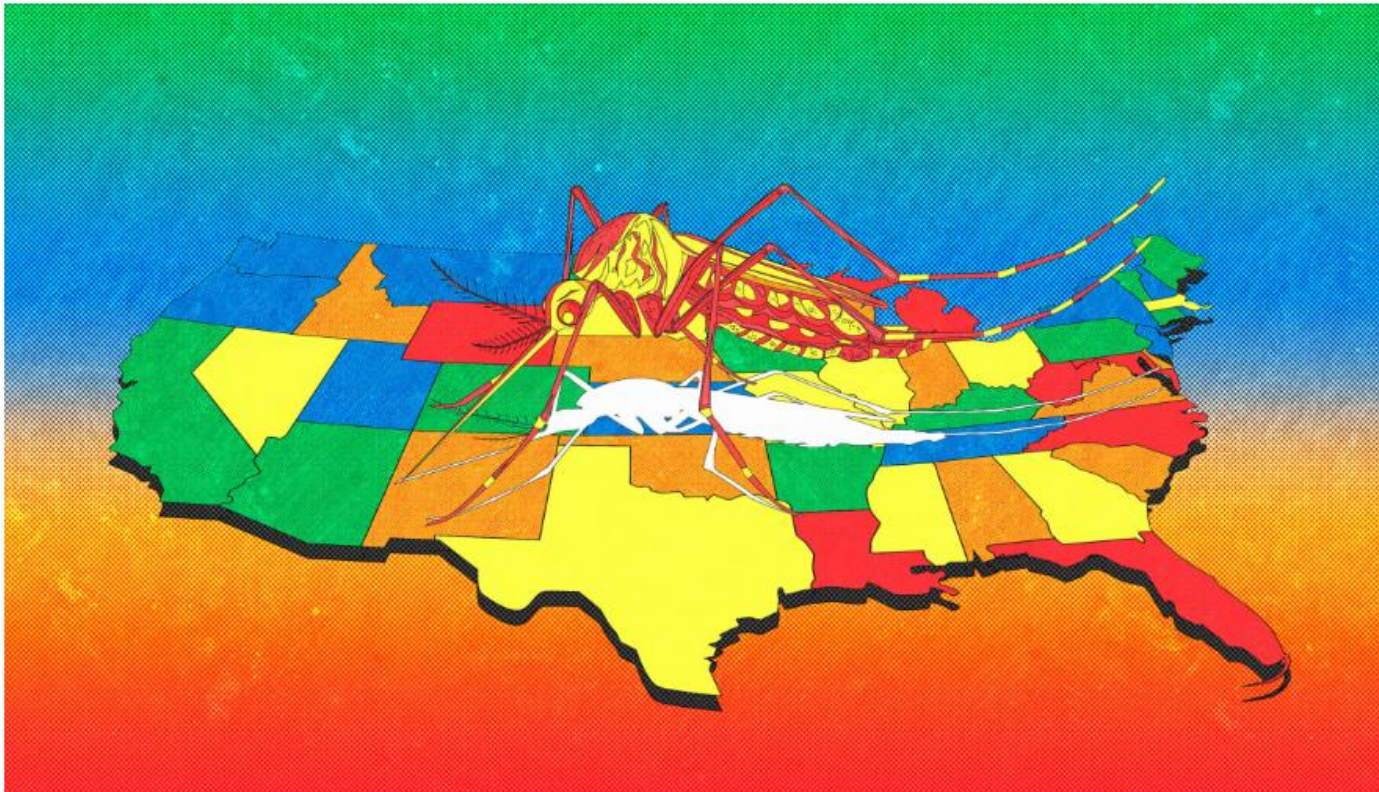
In partnership with Google Cloud, Climate Engine helps organizations accelerate their climate and sustainability missions through the delivery of data driven insights based on the world's best available science.

Bobby Shackelton, as Chief Product Officer @ Climate Engine:

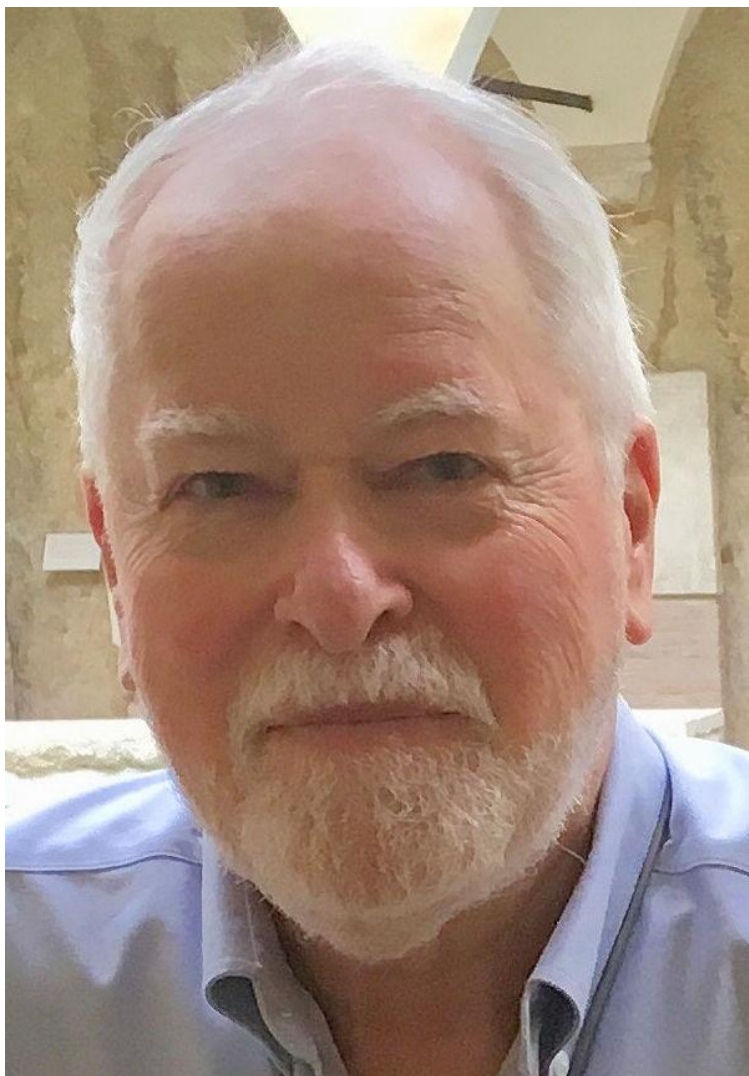
05-05-22

This new tool shows you the local mosquito forecast

Use it before planning that summer barbecue.



[Source Image: chalintra141/iStock/Getty Images Plus]



Ačiū!

