

Megan Slemons

Emory University



15,000 Students



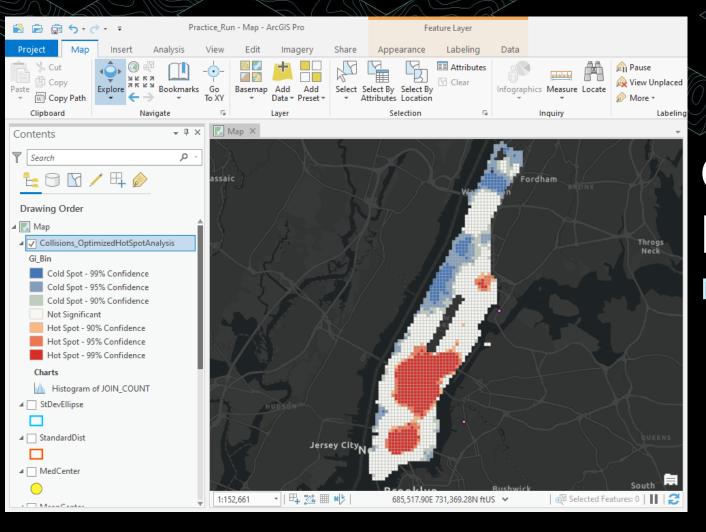
600 ArcGIS users

Private 4+ years

Majority Undergraduate







Changing GIS Instruction

Megan Slemons - Emory University

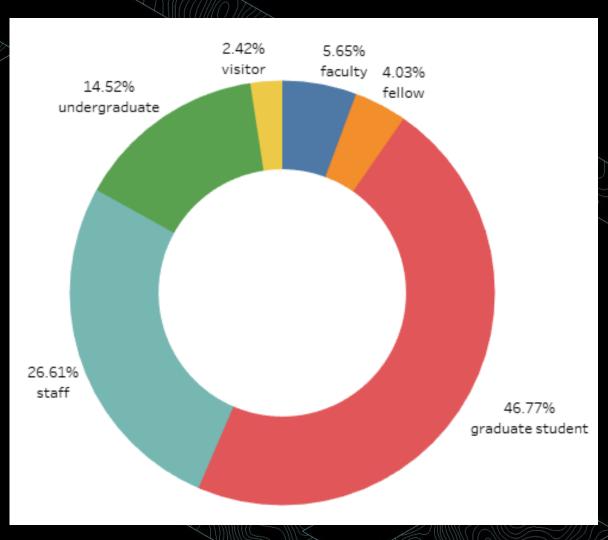
About my institution

- The <u>Emory Center for Digital</u>
 <u>Scholarship</u> falls under Library and Information Technology Services
- Discipline-neutral place for GIS support and instruction (among other topics)
- I'm the Esri site license manager
- Emory has no Geography or Planning departments, but does have Public Health School and Environmental Science
- Instruction (in many forms) is a big part of my job



Who attends our workshops? What does this mean for how and what we teach?

- Our workshops cover a variety of topics, including GIS and mapping, and are open to anyone
- A mix of students, faculty and staff - so audience is researchers, instructors, and practitioners
- From a wide variety of departments
- These workshops are often the only source of training before someone uses GIS
- We're filling a gap where there is a need on campus - training that is open to anyone



Spring 2020 workshop attendee affiliation

How has instruction changed over time?

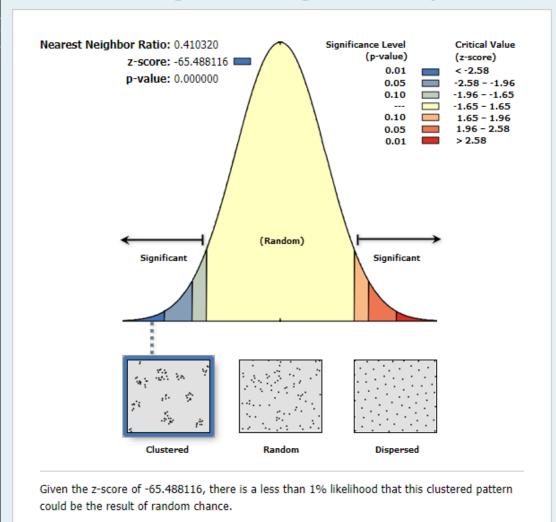
Format

 Access to a Windows computer lab was initially a limitation

Topics

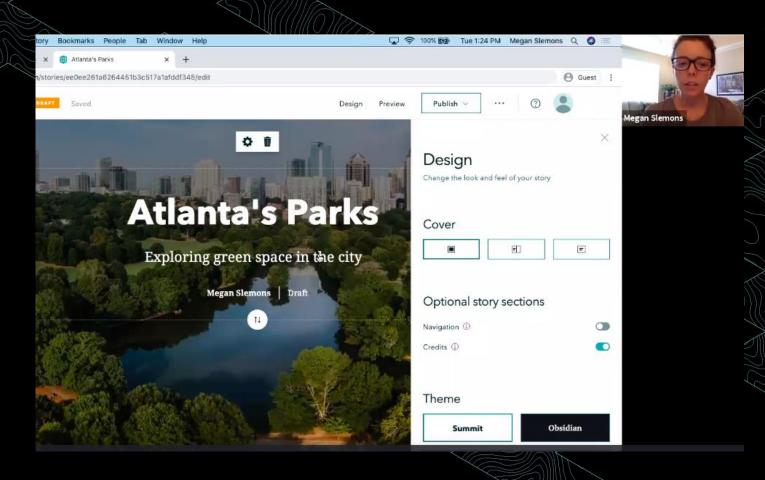
- Increased focus on teaching theory and best practices, and not just how to navigate the software and overcome common errors
- Understanding why and when you would use one tool over another
- Switched instruction to all-Pro and greatly increased use on campus
- Data literacy series coming in

Average Nearest Neighbor Summary



How are things changing as we move online?

- Software access lots of new ArcGIS installations on personal computers
- Workshops are shorter teach concepts, best practices, and provide hands-on activities for later
- Less interactivity during workshops, but many follow-up consultations
- Increased interest/enrollment in Esri Training
- Focus on web-based tools for fall teaching



Lessons learned (so far!) from virtual workshop

- Workshops over Zoom have worked out surprisingly well
 - Registration and attendance more than doubled over summer
 - Keep it short and specific (1 hour) - Zoom fatigue is real!
 - Less interactivity
- Changing focus
 - Lots of interest in watching recordings (stored in Canvas site)
 - Changing the focus away from in-person "attendance"
 - Focus on why you'd use this tool, what your data would look like, rather than specifics of use















ECDS_Workshops_2020_2021 > Modules

Files

Modules

ArcGIS StoryMaps (Summer 2020)

ArcGIS_StoryMaps_slides.pdf

StoryMaps_exercise_data.zip

StoryMaps exercise data-1.zip

Intro to Data Visualization in Tableau (Summer 2020)

Intro to Tableau Zoom recording (Su2020) 2

Intro_Tableau_slides.pdf

ACS 5vr 2018 Housing.xlsx

Git and GitHub - Working with Data in Teams (Spring 2020)

& Git and GitHub Workshop Facebook recording (Spring2020) ₽

Ø Download git

 Ø

R Basics - Introduction to R (Fall 2019)

R Basics - Introduction

Russ White



California Polytechnic State University



22,000 Students



2,200 ArcGIS users

Public 4+ years

Very high Undergraduate



Small suburban setting





Data & GIS at Kennedy Library

Russ White

Data & GIS Specialist Robert E. Kennedy Library Cal Poly San Luis Obispo



Digital Projects Lab Data, GIS, Statistics

Find datasets

Navigate to find the data you need

Consult an expert

Meet with peer assistants for help with data analysis & tools

Visualize & present

Find creative & effective ways to tell your story













http://guides.lib.calpoly.edu/DPL

Virtual Labs with AWS AppStream 2.0

ArcMap, ArcGIS Pro AutoCAD, Revit Solidworks ...

Standard, and 'Graphics' instance

Managing your data is a challenge

Virtual Computer Labs



Choose your app to get started







Desktop 2020 R1

























Manage 2019 Simulate 2019



OneDrive





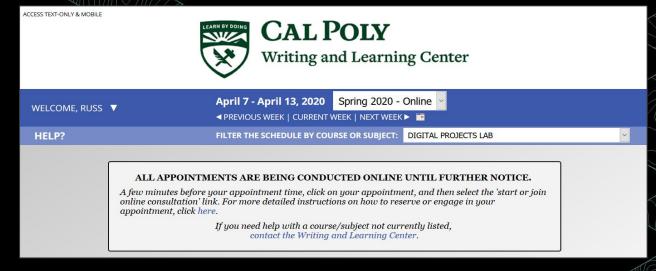


Workbench 2020

Writing and Learning Center Virtual Help

Schedule an appointment to meet with a peer assistant online.





https://youtu.be/7X86bfj_uZY

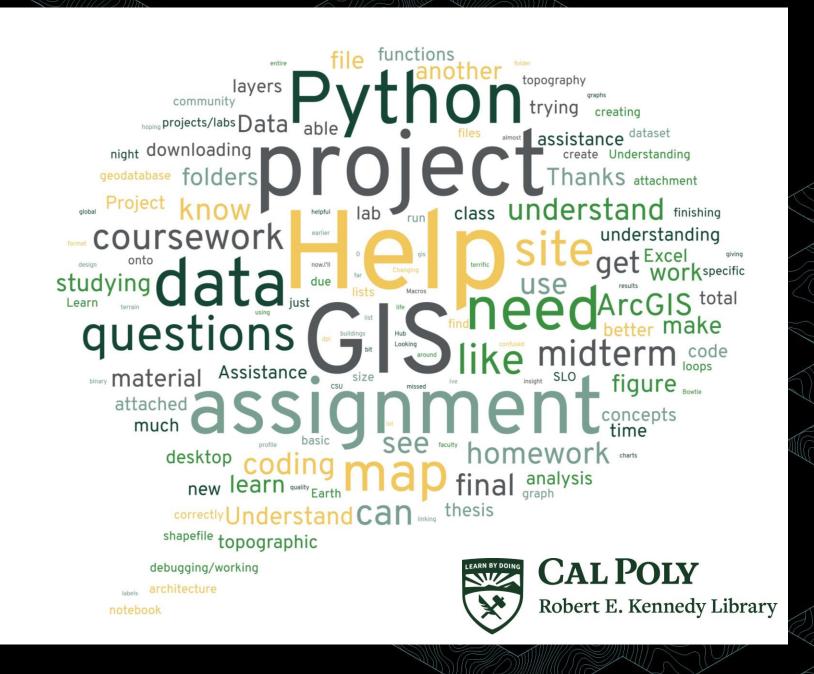
- Sign-in
- Find a peer assistant by course & availability
- Connect via Zoom, Chat, screenshare, or virtual whiteboard

DPL 2019 – 2020:

5 Peer Assistants

5-10 Hrs/week each

200+ Appointments



Patricia Carbajales

Clemson University



25,000 Students



3,700 ArcGIS users

Public 4+ years

High Undergraduate



Large suburban setting





What have you found helpful in making GIS software accessible?

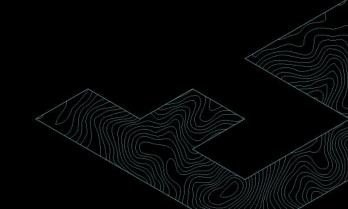
Flexibility





Virtual Desktop







- Agile response to diversity
- Higher **outreach** to patrons
- Avoid disruption of services



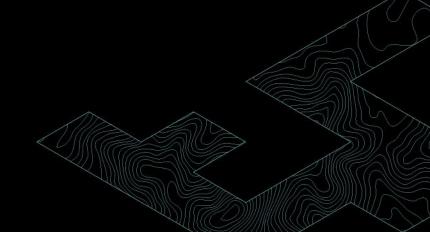






Remote Desktop

Flexibility

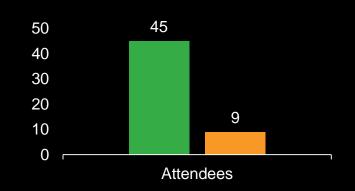




What have you found helpful in engaging students?

Staying Connected - ↑ Availability - Specialized Outreach

Asynchronous OR Synchronous



Moving Online



It's all in the name: Easier -> Wider audience Cloud Mapping with ArcGIS Online OR **Unleash Your Creativity with Story** Maps

Him Mistry

New York University



52,000 Students



Private 4+ years

Majority Undergraduate





NYU IT + LIBRARIES



CENTRALIZED



INTER-DISCIPLINARY



~ 2020

Him Mistry - New York University



DATA CURATION



2008



CONSULTS





TUTORIALS

80+ GIS &

40+ DATA VIZ

400+ TOTAL







COVID-19







SOCIAL INJUSTICE

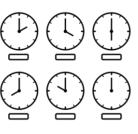








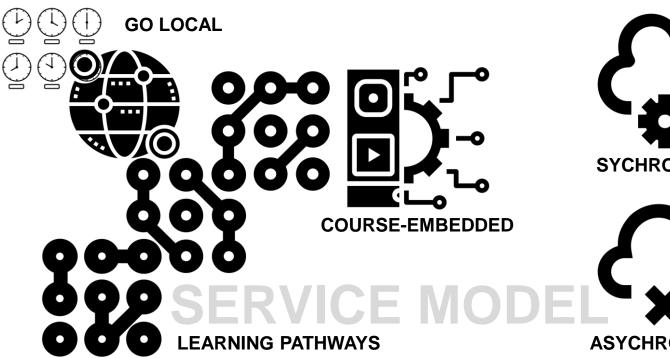




TIME ZONES



















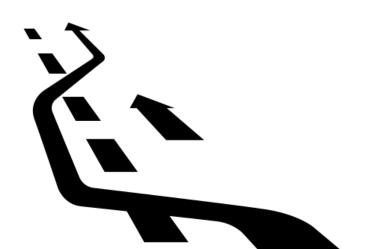
INSTRUCTION



RECORDING



LIVE CHAT







PSYCHOLOGICAL SAFETY: IDBE

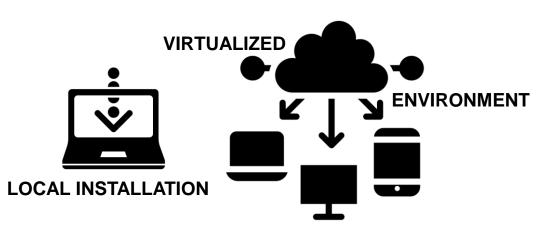


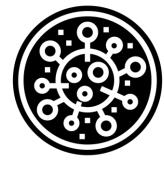




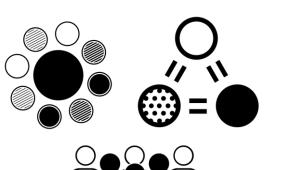












RACIAL INJUSTICE

HIM MISTRY

MANAGER, DATA SERVICES NEW YORK UNIVERSITY

E: himist@nyu.edu guides/nyu.edu/dataservices

THANK YOU

Questions?

Noun Project - Artwork Attribution

Slide 1

Rflor

Pieter J. Smith Adrien Coquet HeadsOfBirds Muhammad Samudra Pham Duy Phuong Hung Slide 2 Slide 3 mynamepong Eucalyp Oleksander Panasovskyi Becris

Kraya Agni

Eucalyp Nithinan Tatah Becris ProSymbols priyanka Flatart

Rafael Garcia Motta Vectors Point

Cara Foster

Slide 4 Eric Benoit

esri

ProSymbols priyanka Luis Prado corpus delicti

AomAm Smallike

Stephen Plaster

Yu luck

Thomas Deckert

Miriam Olivares

Yale University



13,500 Students



2,900 ArcGIS users

Private 4+ years

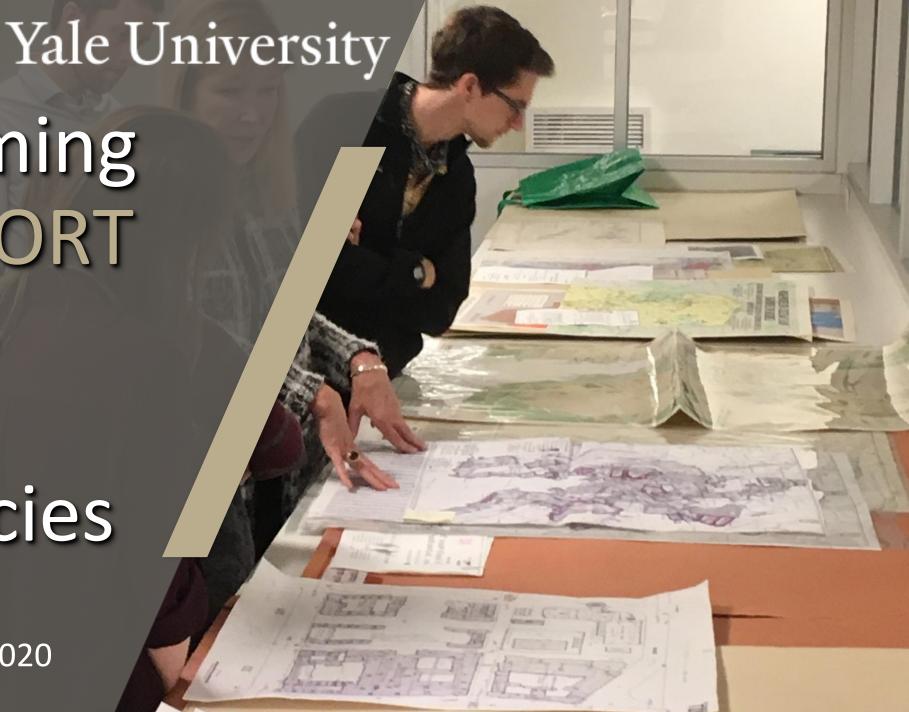
Majority Graduate



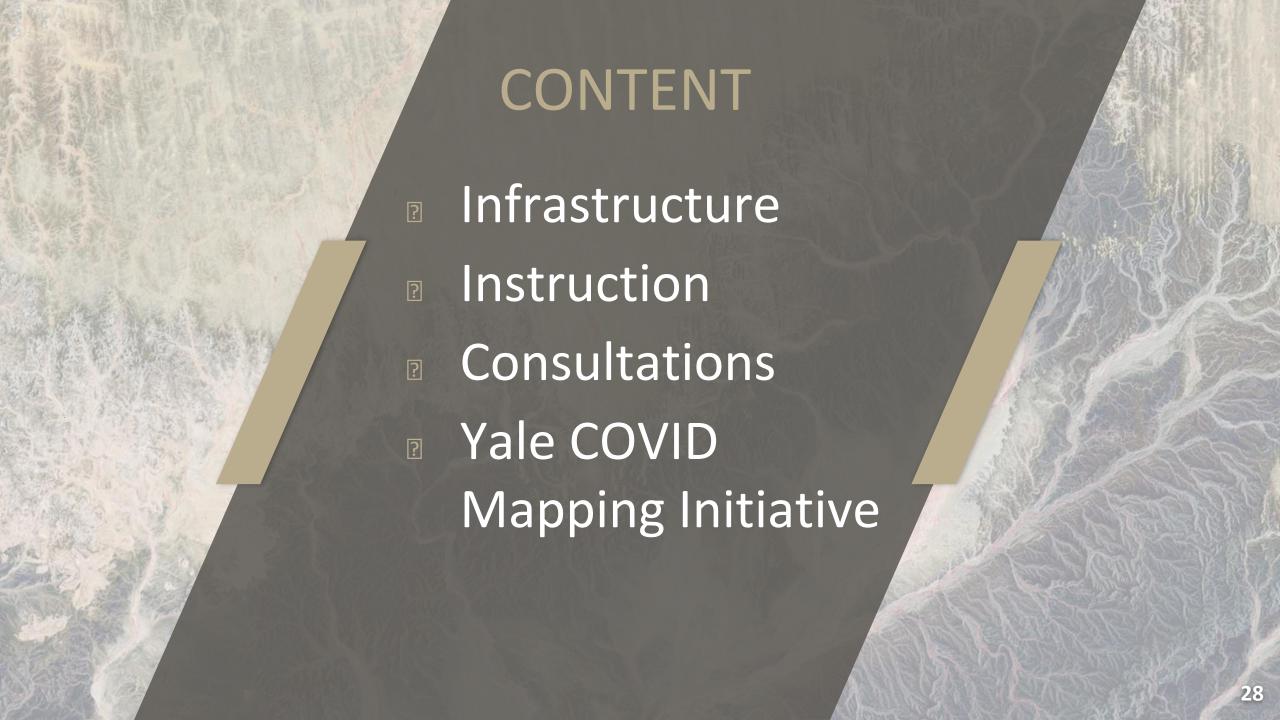


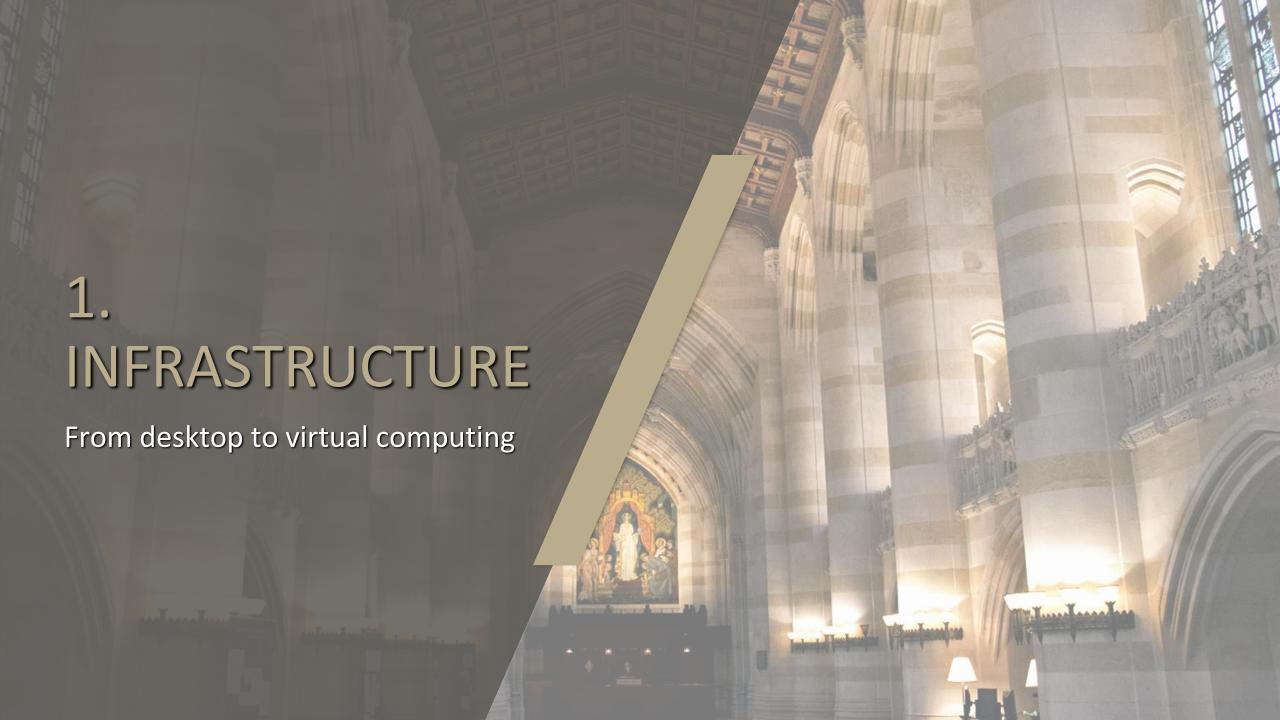


Transforming GIS SUPPORT SERVICES During Emergencies



Esri Education Summit 2020





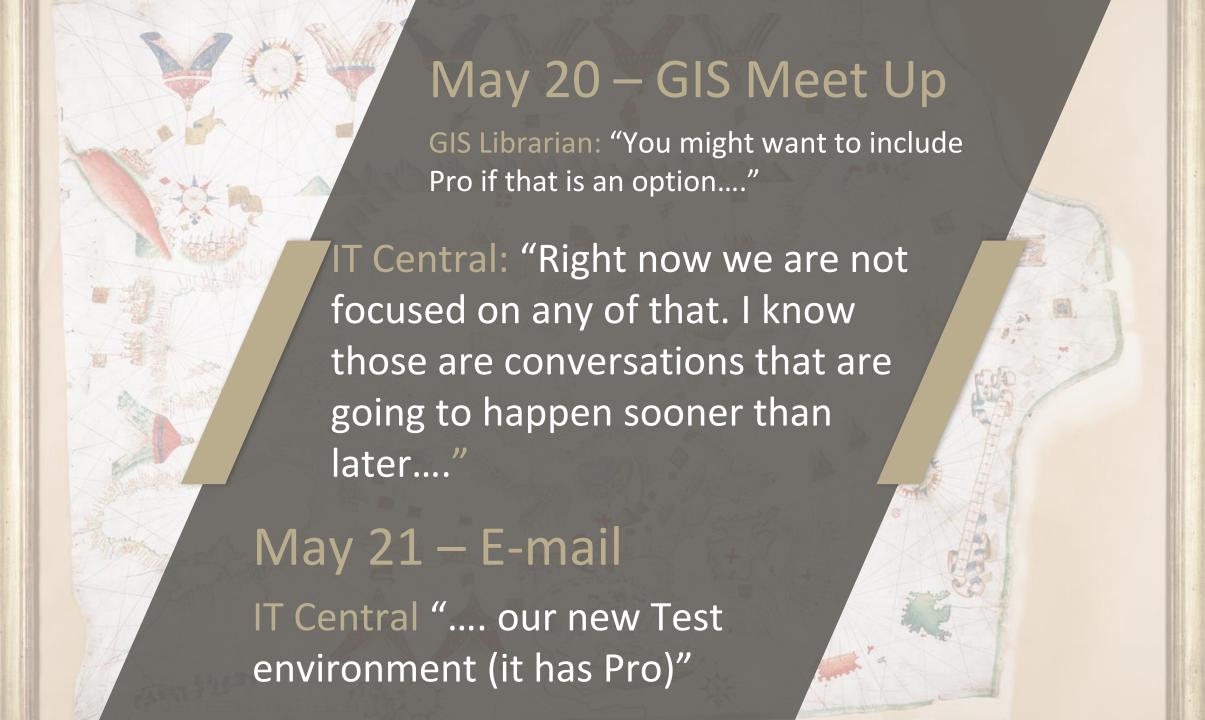


Before COVID

- 80% Mac undergrad users
- o 70 % overall
 - Installing VMs in Macs mostly challenging computing power
- Some schools offered licensed-VM with troubleshooting
- Majority use open-source VMs

Post-COVID

- Initially decision-makers were overwhelmed
- Universities consulting w/peers and emulating decision-making
- IT Central started working on virtual desktops
 - Forestry started piloting WVDs
- Gigantic step for GIS integration
 - Learning
 - Project integration







Asynchronous GIS Learning

2008 @ Texas A&M Map & GIS Library

- Tutorials -YouTube
 - Authored by graduate student consultants
 - 12 videos, from 4 to 19:mins
 - Storyboard then production with voiceover
 - 666,175 views

2017 @ Yale University Library

- Workshops Panopto: NetID authentication
 - Authored by Ph.D. student consultants, edited by GIS interns
 - Data included
 - 4 videos, from 58 to 135 mins
 - Live workshops and AV room production
 - Closed-captioning
 - 114 hrs overall
- MOOCs, tutorials, Esri virtual training, etc.

(Virtual) Live

- Registrar courses
 - Forestry/Environment & Public Health
- Library & other departments
 - On-site (or virtual) workshops
 - Intro & intermediate desktop
 - Web-based mapping
 - Special topics & SIG
 - StoryMaps
 - Google Earth Engine
 - Esri Notebooks
- Challenges:
 - Assistance by "2nd instructor" TBD for virtual training





Teaching & Project Planning

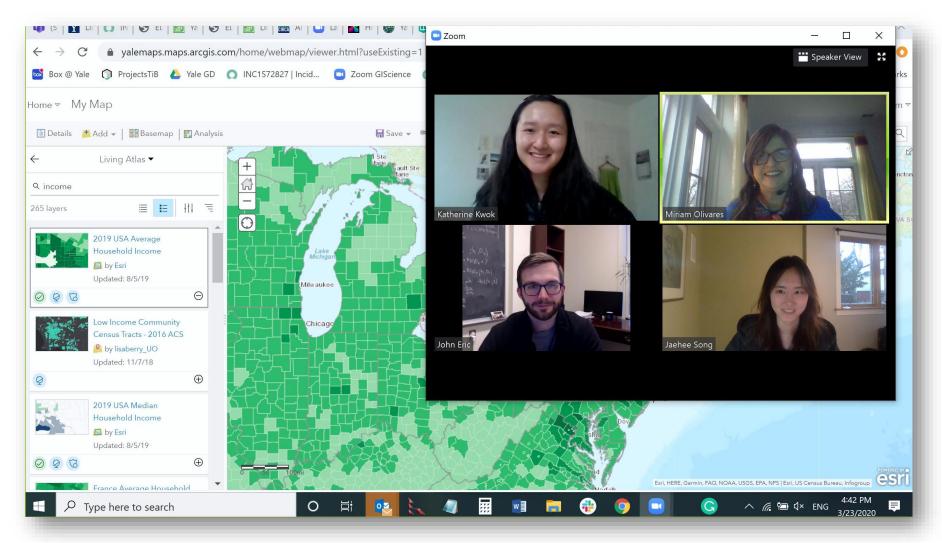
Selected topics:

- GIS foundations
- Spatial data management
- Power of web-mapping
- Power of desktop mapping
- Connecting researchers with experts across campus and around the world!
- Shortcuts from basic to complex concepts
- GIS careers & enhancing job hunting
- GIS role models



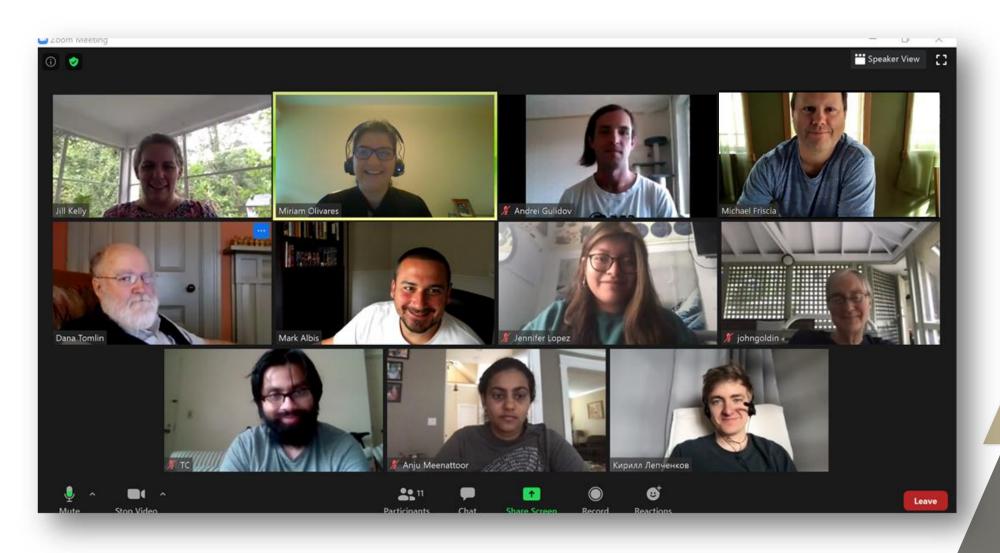
Management & Communication

- Electronic reservation
- Ticketing system
- Research Guides & FAQs
- Mailing list
- Slack, Teams or other IM service, including a group's GeoNet instance
- Stats to show decision makers GIS impact across campus
 - Consultations
 - Research guides
 - Website analytics



Virtual consultation with a research team





The COVID Mapping Team



Program

- Multidisciplinary team
 - Combo: students, faculty, and staff
 - Passion & expertise
- Initial charge: mapping COVID, focus in CT
- Expand to call for proposals
 - Commitment: guidance & GIS expertise
 - Timeline: calendar year
 - Application via Qualtrics: 3 Qs & 6 Qs
- Daily Stand-Up meetings
- Fostering collaboration across campus

