General Information

Title of the workshop:

Introduction to GIS & Map Making with QGIS

Name of instructor(s) and short biographies and contact information of the workshop organizer(s)

Michele Tobias, PhD is the GIS Data Curator at the UC Davis Library. Her teaching experience includes geospatial workshops taught at international conferences and graduate-level university courses. She is a charter member of the Open Source Geospatial Foundation, a contributor to QGIS and OpenDroneMap, and the lead developer for Literature Mapper, a QGIS plugin for georeferencing a Zotero citation library. mmtobias@ucdavis.edu (530)752-7532

Alex Mandel, PhD is a Geospatial Scientist in the Department of Environmental Science and Policy at the University of California, Davis. He has a wide range of teaching experience from brief 2 hour workshops to full university courses, aimed at beginners to advanced users of geospatial software and programming. He is also an active contributor to many open source geospatial projects including OSGeoLive, OpenDroneMap, and QGIS, and lead author of the QGIS 2 Cookbook.
aimandel@ucdavis.edu

Lia Buzanovsky, Specialist in Geographical Information Systems at the Pan American Foot-and-Mouth Disease (PANAFTOSA) Center of the Pan American Health Organization/World Health Organization (PAHO/WHO). She has extensive experience conducting training courses and operational applications of QGIS and other geospatial tools with specific applications for animal and public health.
buzanovsky@paho.org

Workshop's learning outcomes:

This introductory-level workshop will focus upon the fundamental concepts and skills needed to explore and analyze begin using Geographic Information Systems (GIS) software for the exploration and analysis of spatial data using the QGIS platform.

By the end of this workshop, participants will be able to:

- Define GIS and geospatial concepts and terminology
- Know the difference between vector and raster data types
- Properly connect and add data to a QGIS project
- Know where to find the attributes of data in QGIS
- Perform basic selections and queries in QGIS
- Symbolize data by attributes
- Assemble a basic map for export
- Perform basic spatial analysis

No prior experience with QGIS or other GIS software is needed, though attendees should be comfortable learning new computer applications, working with the basics of spreadsheets, and managing/organizing computer files.

Background and skills workshop attendees should have (max 150 words).

Fundamental computing skills such as being able to navigate their computer's file storage to locate and move files

Attendees should bring their own laptop with QGIS 3 installed (it is available free of cost for Windows, Mac, and Linux).

The history of the workshop: have you offered this workshop before?

Yes [X] No [ ].

Michele will teach this specific workshop to the City of San Francisco's staff on 3/19/2019. There are 30 people registered and all are expected to attend. The materials are available online: https://github.com/MicheleTobias/Intro-to-Desktop-GIS-with-QGIS

Both Michele & Alex have extensive experience teaching geospatial workshops to a wide range of levels of experience, from complete novices to advanced users. They have taught introductions to QGIS on many occasions, including at CalGIS and #maptimeDavis. Michele has taught QGIS cartography workshops for at the international Free & Open Source for Geospatial (FOSS4G) conferences in Boston, MA (2017) and Dar es Salaam, Tanzania (2018) and will teach again at the upcoming FOSS4G North America conference in April in San Diego (2019). Alex has taught open source geospatial workshop internationally for USAID in Tanzania (2017), Cambodia (2018), & Senegal (2019). Both instructors organize and regularly teach at #maptimeDavis, the geospatial skills workshop series produced by the Center for Spatial Sciences & the UC Davis Library.

Workshop specifications

Do you prefer to organize a pre- or post-workshop?

Pre [ ] Post [ ] **Either [X]** - but perhaps it makes sense for this to happen before the conference so people can gain experience before the main event?

What's the minimum and max number of attendees for the workshop?

Minimum: 10

Maximum: 60

What's the duration (days) of the workshop (max. length is 2 days, but contact us

at GeoVet19@ucdavis.edu if you want to propose a longer workshop e.g. 3-4

days): [1 day]

1 Day

What is the proposed cost (USD) of the workshop for the participants:

[30 USD] - whatever the standard rate you've set to cover the cost of food and supplies is fine because we will not have any additional costs.

Workshop contents and schedule

Day	Time	Topic	Presenter	Format
1	8:00-10:30	Intro to GIS & QGIS		Presentation
1	**10:30-11:00**	**Break**		---
1	11:00-12:00	Data Types		Presentation
1	**12:00-1:00**	**Lunch**		---
1	1:00-2:00	Visualizing Data		Computer Lab
1	2:00-3:00	Map Composition		Computer Lab
1	**3:00-3:30**	**Break**		---
1	3:30-5:00	Spatial Analysis		Computer Lab