

# Open Source Desktop GIS with Quantum

## Introduction to QGIS

*Technical Training Workshop Series  
Center for Geographic Analysis, Harvard University*

*Instructor:* Lex Berman

*Website:* <http://cga-5.hmdc.harvard.edu/qgis>

*Course Materials:* <http://cga-5.hmdc.harvard.edu/qgis/data/>

*Overview:* An introduction to Quantum GIS for beginners, this workshop will cover the basic methods for opening various data formats, dealing with projections, joining tabular data to vector GIS layers, symbolization, and exporting data. No previous knowledge of GIS or statistics is required.

**Schedule: 2 hours**

### **1:00 – 1:30 pm Basic Navigation of QGIS**

- What is Quantum GIS?
- User Interface, Menus and Toolbars
- Plugin Manager, Opening Layers, Layer Order
- Pan and Zoom Tools
- Identify and Select
- Query Attributes with Query Builder
- Styles, Labels, Symbolization
- Projections and Coordinate Reference Systems
- Exporting in various formats

### **1:30pm – 1:40pm Q&A**

### **1:40pm – 2:50pm Importing, Joining, Editing, and Exporting**

- Import X, Y data from CSV
- Import points from KML (created with Google Maps)
- Import a scanned map using the Georeferencer
- Editing vector layers
- Join tabular data from CSV
- Spatial Join (optional as time permits)

### **2:50pm – 3:10pm optional Q&A**

*Workshop Evaluation Form:* <http://bit.ly/t5RmsX>