

**Geographic Information Systems (GIS) for the Humanities and Social Sciences**  
**A Harvard Center for Geographic Analysis Workshop**

---

8 December 2017  
53 Church Street, Cambridge  
Room 203

Instructors: Jeff Blossom (CGA GIS Services Manager)  
<http://gis.harvard.edu/people/jeff-blossom>  
Lex Berman (CGA Web Service Manager)  
<http://gis.harvard.edu/people/merrick-lex-berman>

<b>Friday December 8, 2017</b>	
8:45-9:00	Coffee and muffins, arrivals, registration.
9:00-9:30	<b>Introductions and research interests</b> Introduce yourself, your research, and why you are interested in GIS.
9:30-10:00	<b>Workshop Introduction (lecture)</b> Lex will provide an introduction to GIS concepts, software, spatial data formats, basic cartography, spatial analysis and web map publication.
10:00-12:00	<b>Desktop GIS: General reference map creation (hands on)</b> Introduction to QGIS software, and creation of a general reference map exercise.
12:00-1:00	<b>Lunch</b> – catered and served outside the classroom.
1:00-2:15	<b>Thematic map creation and 3D (lecture, hands on)</b> Jeff will lecture for 15 minutes on thematic mapping, and then students will create a variety of thematic maps using socio-economic data and QGIS software. Google Earth Pro will be used to do geo-referencing, tour creation, and 3D visualization.
2:15-3:15	<b>Desktop GIS: Spatial Analysis (hands on)</b> Lex will introduce concepts of spatial analysis. Students will perform spatial analysis tasks in QGIS with several geographic datasets, and produce a thematic map of the result.
3:15-4:15	<b>Web mapping with WorldMap (hands on)</b> Students will practice using WorldMap, an interactive web mapping platform. Students will load and symbolize spatial analytical results produced during previous exercises, and explore other features within WorldMap
4:15-4:30	<b>Summary, conclusions, individual project consulting (time permitting)</b>