# 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](http://gis.harvard.edu/people/jeff-blossom)  
Lex Berman (CGA Web Service Manager)  
[http://gis.harvard.edu/people/merrick-lex-berman](http://gis.harvard.edu/people/merrick-lex-berman)

<table>
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<th>Time</th>
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<td>8:45-9:00</td>
<td>Coffee and muffins, arrivals, registration.</td>
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| 9:00-9:30  | **Introductions and research interests**  
Introduce yourself, your research, and why you are interested in GIS. |
| 9:30-10:00 | **Workshop Introduction (lecture)**  
Lex will provide an introduction to GIS concepts, software, spatial data formats, basic cartography, spatial analysis and web map publication. |
| 10:00-12:00| **Desktop GIS: General reference map creation (hands on)**  
Introduction to QGIS software, and creation of a general reference map exercise. |
| 12:00-1:00 | **Lunch** — catered and served outside the classroom.                 |
| 1:00-2:15  | **Thematic map creation and 3D (lecture, hands on)**  
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  | **Desktop GIS: Spatial Analysis (hands on)**  
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  | **Web mapping with WorldMap (hands on)**  
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  | **Summary, conclusions, individual project consulting (time permitting)** |