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

9 December 2016 Northwest Building (52 Oxford St., Cambridge) Room B129

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Friday December 9, 2016	
8:30-9:00	Coffee
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.
3:15-3:30	~ Break ~
3:30-4:30	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, learn how to create point, line, and polygon features, and link images and videos to the geographic features pop-up windows.
4:30-5:00	Summary, conclusions, individual project consulting (time permitting)