

Boyd Shearer

Lecturer

Department of Geography, University of Kentucky
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Cartographer and mapping technology instructor. 10+ years of creative teaching and course development and 20+ years of map publishing, web design, and GIS consulting. Creates challenging and rewarding experiences learning open-source mapping, production cartography, and field mapping techniques. Current research uses lidar, digital elevation models, and terrain analysis.

Education

University of Kentucky

M.A., Geography. 1999
Thesis: The Daily Aesthetic [<http://www.uky.edu/Projects/TDA>]: A Multimedia Exploration of Leisure and Recreation in Lexington's Segregated Park System, 1999

Indiana University

B.A., Major in Geography, Minor in Studio Fine Arts and Mathematics. 1994
Thesis: Abandonment and Generation: Technology & Culture in Indiana Public Parks

Experience

Spatial apps	Programming	Design
QGIS, ArcGIS, PostGIS	JavaScript, Python, Bash	HTML/CSS, Adobe Creative Cloud

Teaching

New Maps Plus

2015–present | Department of Geography, University of Kentucky

Instructor for online program awarding a graduate certificate in open source mapping. Responsibilities include teaching and developing a curriculum that integrates QGIS, PostGIS, OpenStreetMap data, Leaflet.js, and other mapping libraries with the common web stack to perform and visualize spatial analysis.

Courses taught

- MAP 671 Intro to Open Source Mapping and Data Management
- MAP 672 Programming for Web Mapping

Example MAP 671 module from Spring 2018

- Lesson: [Spatial Joins, Hexbins, and Heat Mapping](#)
- Instructional video from lesson: [Instructional video](#)
- Lab: [Hex binning North American breweries](#)

Geography

2008–present | Department of Geography, University of Kentucky

Instructor for in-class undergraduate classes. Advanced courses have focused on ArcGIS and Python. More recently, the content has shifted to a more open-source curriculum. Created content for all courses.

Courses taught

- GEO 409 Advanced GIS
- GEO 309 Introduction to GIS
- GEO 160 Lands and Peoples of the Non-Western World
- GEO 130 Introduction to Earth's Physical Environment

Recent class project

- Spring 2017 GEO 409: [Town Branch Trail](#)

Past Instructor Positions

Adjunct Instructor, Natural Resources and Environmental Science

2013–2017 | College of Agriculture, University of Kentucky

Instructor for field-based GIS applications. Course uses mobile GPS apps, ArcGIS, and Lidar and NAIP datasets to measure tree canopy and 3D attributes in our areas of interest. Created content for all courses.

- NRES 355 Introductory Geospatial Applications For Land Analysis

Recent class project

- Fall 2017: [Lexington Neighborhoods Tree Canopy Height Study](#)

Adjunct Instructor, Department of History, Languages, and Social Sciences

2006–2013 | Bluegrass Community and Technical College

In-class and online instructor for introductory geography classes.

Courses taught

- GEO 130 Introduction to Earth's Physical Environment
- GEO 160 Lands and Peoples of the Non-Western World
- GEO 172 Introduction to Human Geography

Recent student project

- Fall 2012 GEO 172: [Rephotographing Lexington's streetscapes](#)
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Recent teaching workshops

2017 “Fundamentals of QGIS” and “Raster processing and tile set creation with QGIS”

Kentucky Association of Mapping Professionals Annual meeting, September 5.

2017 “Introduction to QGIS Short Course”

University of Kentucky Department of Geography and Kentucky Association of Mapping Professionals, June 27.

2016 “Map Making with QGIS” and “Learning the Basics of CARTO”

Kentucky Association of Mapping Professionals Annual meeting, October 18.

2016, 2015 “UKy Summer Map Camp”

University of Kentucky Department of Geography, Summer. [Learn what middle school kids can map.](#)

Map production

Create GPS-mapped printed trail maps of my favorite hiking areas as an entrepreneurial and creative challenge.

Maps are sold online and at local mom-and-pop stores. The following trail maps can be found at [outrageGIS mapping](#) and are self-published unless noted otherwise.

- 2017 Cumberland Gap Trail Hiking Map, 2nd Edition
(Won 1st Place at Kentucky GIS Conference, September 5-7, 2017)
- 2015 Sheltoewe Trace South Trail Hiking Map, 2nd Edition
- 2014 Sheltoewe Trace North Trail Hiking Map
- 2014 Cumberland Falls State Resort Park Trail Map
Published by the Kentucky Division of Parks, Frankfort, KY
- 2013 Red River Gorge Trail Map, 5th Edition
- 2012 Carter Caves State Resort Park Trail Map
Published by the Kentucky Division of Parks, Frankfort, KY
- 2012 Bike Lexington Map
Published by Lexington Division of Planning., Lexington, KY,
(Won 2nd Place at Kentucky GIS Conference, September 27-28, 2012)
- 2009 Sheltoewe Trace South Trail Hiking Map
- 2008 Great Smoky Mountains Trail Atlas
- 2007 The Big South Fork Trail Guide
- 2005 “Channel Islands National Park,”
Published in National Parks, Vol. 79, No. 2, pg. 51
- 2005 Jefferson Memorial Forest Trail Guide
- 2005 Cumberland Gap National Historical Park Trail Guide
- 2004 Red River Gorge Sports Map
- 2002 Cave Run Lake Trail Guide
- 2001 Red River Gorge Backpacking Guide

Media production

- 2007 At Leisure's Edge audio documentary and driving tour
Self-produced audio driving tour exploring once-segregated parks, 72 minutes. Writer, producer, and editor.
[Audio and maps](#)
- 2006 First Frontier Audio Driving Tour
Commissioned by the Southern and Eastern Kentucky Tourism Development Association, 144 minutes. Writer, producer, and editor.
[Audio Disk 1](#) | [Audio Disk 2](#) | [Example map](#)
- 2001 At Leisure's Edge: A Journey through Kentucky's Historic Black Parks
Kentucky Educational Television, 57 minutes. Writer, producer, and editor.
[Video](#)
- 1997 "Mother's Day in Gratz Park," WRFL, 8 minutes. [audio](#)
- 1997 "The Red at Red River Gorge," WRFL 17 minutes. [audio](#)
- 1997 "Defeat in the Streets: UK's 1997 NCAA Loss," WRFL, 3 minutes. [audio](#)
- 1997 "The Children of Constitution Square," WRFL, 6 minutes. [audio](#)

Grants Received

- 1999 Kentucky Educational Television, \$19,000.
- 1998 The Kentucky Humanities Council, \$10,000.
- 1997 The Kentucky Oral History Commission, \$4,000.
- 1997 The Lexington Arts and Cultural Council, \$2,000.
- 1996 The Kentucky Humanities Council, \$1,000.
- 1996 The Kentucky Oral History Commission, \$1,000.