

AARON M. TAVERAS

Lecturer, Geospatial Studies
Department of Geography, Humboldt State University
Freelance GIS Analyst & Cartographer

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EDUCATION

- 2015–2018 **M.S. Environmental Science & Management**
Humboldt State University, Arcata, California
- 2009–2012 **B.A. Geography, Geospatial Sciences**
Humboldt State University, Arcata, California

PROFESSIONAL EXPERIENCE

- 2015–Present **Lecturer & Cartography Lab Manager**
Department of Geography, Humboldt State University
- 2014–Present **Freelance GIS Analyst & Cartographer**
Anagram, Arcata, CA
- 2013–2017 **Contract Cartographer & Map Editor**
National Geographic Maps, Evergreen, CO
- 2012–2013 **GIS Analyst & Cartographer**
Cartographic Services Lab, University of Kansas

INSTRUCTIONAL EXPERIENCE

- 2017–Present **Geospatial Concepts Lab**
Humboldt State University
I teach geospatial basics, such as map reading, geospatial analysis, cartography fundamentals, data management, and GPS techniques at Humboldt State University.
- 2015–2017 **Workshops on Cartographic Design**
Humboldt State University
I held periodic demonstrations and workshops showing new cartographic techniques and software applications for students and faculty at Humboldt State University.

2012–2013 **Introduction to Cartography**
University of Kansas
I lead class sessions on data structure and feature generalization for the Introductory Cartography course at the University of Kansas.

AWARDS

2013 **First Place, Annual Print Map Competition**
North American Cartographic Information Society

2012 **First Place, Annual Print Map Competition**
North American Cartographic Information Society

2012 **First Place, Annual Print Map Competition**
California Geographical Society

TECHNICAL KNOWLEDGE

ArcGIS (ArcMap/ArcINFO License), ArcPro, ArcGIS Online, QGIS, Global Mapper, ERDAS Imagine, ENVI, Agisoft Photoscan, Pix4D Mapper, Wing IDE, Postgres, FME Desktop, Natural Scene Designer, Microsoft Office, Adobe Illustrator, Adobe Photoshop, Adobe InDesign, Adobe Dreamweaver, MAPublisher, Geographic Imager, Mapbox GL JS, Leaflet, Carto (CartoDB), Github.

TECHNICAL CAPABILITIES

Geospatial Analysis, LIDAR Processing, Terrain Modeling (2D & 3D), Python Programming, Geospatial Tool Development, Geo-Visualization, GPS Data Collection, Database Management, User Interface Design, Print Map Design, Web Map Design (Interactive), 3D Map Design, Relief-Shading, Web-Development.

SELECTED PROJECTS

2017 **Tree Canopy Extraction Tool**
For Dr. James Graham, Humboldt State University
I was asked to develop an ArcMap tool that could automate the process of extracting tree canopy from raster data sources. The final product was developed using Python and succeeded in identifying tree canopy using Lidar data and infrared imagery.

- 2016 **HSU Campus Map**
Special Projects, Humboldt State University
 I developed an interactive campus map using a custom tile-set and user interface. The interface was developed using HTML, CSS, and JavaScript; and the tiles were created using ArcMap, Adobe Illustrator, Adobe Photoshop, and Mapbox. The Geography Department at Humboldt State University have used the final product on their website.
- 2015 **Making Terrain Exhibit**
Art & Design Gallery, University of Kansas
 I worked with a team that curated and assembled a wide range of maps and cartographic exhibits that exemplified great manual and digital shaded reliefs. There were numerous contributors, including National Geographic, the National Park Service, and International Mapping Associates.
- 2013 **Remote Sensing Balloon Mission**
Department of Geography, University of Kansas
 This project was a joint effort between graduate students and undergraduates to design, build, launch, and retrieve a balloon mounted, color infrared remote sensing platform. I assisted in building the tracking electronics, designing a simple web presence, and geo-referencing the collected imagery.

RECENT PUBLICATIONS

- 2018 **10 full color maps.**

 Dye, Bob. 2018. Fly Fishing Guide to the Colorado River and Tributaries: Hatches, Fly Patterns, and Guide's Advice. Stackpole Books, Mechanicsburg, PA. www.stackpolebooks.com.
- 2017 **40 full color maps.**

 Heck, Mike, Gary Kell, Len Lichvar, Jay Nichols, Henry Ramsay, Dave Rothrock, Brian Shumaker, Ben Turpin, and Karl Weixlmann. 2017. Keystone Fly Fishing: The Ultimate Guide to Pennsylvania's Best Water. Headwater Books. Boiling Springs, PA. www.headwaterbooks.com.