### Adam C. F. Cox

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Master's Student in Geography & GIS Developer Department of Geography & Anthropology Louisiana State University, Baton Rouge, LA acox42@lsu.edu 608-606-9928 Baton Rouge, LA

## Education -

M.S., Geography – Louisiana State University, Baton Rouge, LA (expected Spring 2021)

**B.A., Anthropology** – Lawrence University, Appleton, WI (2007 to 2011)

- GPA: 3.8 | Phi Beta Kappa | Minor: Music

**High School** – Youth Initiative High School, Viroqua, WI (2002 to 2006)

## Employment History —

**Legion GIS, LLC**, New Orleans, LA – GIS Developer and Owner (2016 to present)

- Started company with partner (see below for consulting project examples).

**Self-employed,** Viroqua, WI – Freelance GIS Consultant (2015 to 2016)

- Various cartographic and spatial data work (see below for project examples).

National Park Service, National Center for Preservation Technology and Training, Natchitoches, LA – GIS Specialist (2012 to 2015)

- Created nation-wide geodatabase of cultural landscapes for NPS Cultural Landscape Inventory program, based on existing non-spatial CLI database.
- Designed, built, and published ArcGIS toolbox with 30+ tools to aid with creation and use of geodatabase.

**Territory Heritage Resource Consulting**, Anchorage, AK – GIS and Cartographic Technician (2011 to 2012)

Managed spatial data from fieldwork, created historic aerial imagery and historic survey plat overlays.
 Made maps for report deliverables.

**Lawrence University**, Appleton, WI – Anthropology Dept. Research Assistant (2011)

- Researched and created spatial database of historic houses on campus.

# GIS-Related Consulting —

**Getty Conservation Institute**, Los Angeles, California. (2015 to 2019)

- Created and managed technical documentation efforts. arches.readthedocs.io (live)
- Traveled to Asia (Singapore, Hong Kong, Taipei) to present at Arches informational sessions (2015)
- Assisted with materials and presentations for Arches user workshops (see below)

Endangered Archaeology of the Middle East and North Africa (EAMENA), Oxford, UK (2018 to 2019)

- Various customizations of their installation of Arches, database.eamena.org (live)
- Created an implementation for the Royal Commission for Al Ula, Saudi Arabia.
   database.alulaheritage.org (live)
- Designed and built Django backend for Heritage Bridge, heritage inventory mapping app herbridge.legiongis.com (demo)

#### Hong Kong Stair Archive, University of Hong Kong, Hong Kong. (2017)

Created web map and database for Stair Culture. <u>stairculture.com</u> (live)

#### **Vernon Trails**, Viroqua, Wisconsin (2017)

- Designed and created "Vernon County Adventure Map" 19 x 26 inch foldout brochure
- Custom built basemap with 10 road bike routes and elevation profiles for each one

#### **Theban Mapping Project**, American University in Cairo, Cairo, Egypt. (2017)

Implement Arches for Egyptian Archaeological Database. <u>ead.legiongis.com</u> (demo)

#### Crawford Stewardship Project, Crawford County, Wisconsin (2016 to present)

- Designed and built "Karstography", an interactive mapping platform for geologic sink classification and publication. <u>karstography.legiongis.com</u> (live). Django, Leaflet, Geoserver.
- Designed and led web-based volunteer efforts to analyze historic well drilling reports (WDRs) for evidence of karstic activity.

#### Florida Public Archaeology Network (2017 to present)

Implemented and customized Arches to create the Heritage Monitoring Scouts database. Gives citizen "scouts" limited access to archaeological site data for condition monitoring. Also used by state land employees. <a href="https://mxx.org/hms.fpan.us">hms.fpan.us</a> (live).

#### **Armed Forces Retirement Home**, Washington D.C. (2015)

- Implemented Arches for internal cultural heritage management tracking and public engagement.
   <u>afrh-iris.com</u> (live)
- Georeferenced and integrated 12 historic maps into the mapping interface.

#### Cane River National Heritage Area, Inc., Natchitoches, Louisiana (2014)

Mosaicked, georeferenced, and integrated dozens of historic Louisiana maps into the mapping interface.
 <u>crhim.legiongis.com</u> (archived demo)

#### Crossroads Resource Center, Minneapolis, Minnesota (2013 to 2015)

Made maps for reports on regional food distribution

## Teaching Experience —

**Assistant Instructor, Technical Support** – Arches Developer Training, 4-day workshop, Swindon, UK (November 2018)

**Assistant Instructor, Technical Support** – Arches Workshop, 3-day workshop, John Moores University, Liverpool, England (March 2017)

Instructor – Introduction to QGIS community course. Viroqua, Wisconsin. (Summer 2016)

Designed and taught course with assistant. Materials available: <a href="mailto:github.com/mradamcox/qgis-intro/">github.com/mradamcox/qgis-intro/</a>.

Assistant Instructor – Geography/Geology course at Youth Initiative High School (Spring 2012)

Planned and led geography and geology-related fieldtrips.

Writing Tutor – Lawrence University, Appleton, Wisconsin. (Fall 2010 – Spring 2011)

### Peer-Reviewed Publications —

Barton, C., Cox, A., Delgadillo Cruz, S., and Hansen, J. "Cultural-heritage Inventory Implementations: The Versatility of the Arches System." Association for Preservation Technology International (APTi) Bulletin. 48 (4): 19-27. 2017. Print.

#### Conference Presentations —

- Ringhoff, M., Ausloos, J., and A. Cox, 2019: Designing an Arches Database. Paper presented at 2019
   California Preservation Conference, Palm Springs, California, May 8-11.
- Cox, A. 2017: Two Arches Implementation Case Studies. Paper presented at 2017 CIPA Symposium: Digital Workflows for Heritage Conservation, Ottawa, Canada, August 29-September 1.
- Barton, C. and A. Cox, 2016: Using the Arches Open Source Web Application as a Cultural Resources Management Tool. Paper presented at Association for Preservation Technology International Conference, San Antonio, Texas, October 30 – November 2.
- Dalgity, A., Myers, D. and A. Cox, 2016: Technologies and Approaches for Rapid Surveys. Paper presented at *National Alliance of Preservation Commissions Forum*, Mobile, Alabama, July 27-31.
- Cox, A., 2016: Arches: A New Open Source GeoInventory Platform. Paper presented at 29<sup>th</sup> Annual Wisconsin Land Information Association Conference, Elkhart Lake, Wisconsin, February 10-12.
- Cox, A., 2013: Mapping the American Cemetery: Using GIS in Historic Preservation. Paper presented at *Louisiana Studies Conference*, Natchitoches, Louisiana, September 20-21.

#### Conference Attendance ———

QGIS Southeast Regional User Meeting, Chattanooga, Tennessee (October 2019)
Association of American Geographers Annual Meeting, Washington D.C. (April 2019)
Association of American Geographers Annual Meeting, New Orleans, Louisiana (April 2018)
FOSS4G International Conference, Boston, MA (August 2017)
ESRI User Conference, San Diego, CA (July 2013)

## **Workshop Presentations -**

- Dalgity, A., Myers, D and A. Cox, 2017: Introduction to Arches Version 4. One-day workshop presentation at 2017 CIPA Symposium: Digital Workflows for Heritage Conservation, Ottawa, Canada, August 29-September 1.
- Cox, A. 2017: Implementation Considerations. Presentation at *Liverpool John Moore's University Arches 3-Day Workshop*, Liverpool, U.K., March 28-30.
- **A. Cox** and Enriquez, A. 2017: Introduction to Arches Version 4. One-day workshop presentation at *Computational Applications in Archaeology,* Atlanta, Georgia, February.

## Workshop Attendance —

**Arches Community Workshop**, 3-day workshop, London, UK (July 2014) **Section 106: An Introduction**, 3-day course, Madison, Wisconsin (November 2011)

#### Technical Skills ———

Geospatial – QGIS, ArcGIS, Trimble 7x, Pathfinder Office, Google Earth Pro, GDAL/OGR, Postgres/PostGIS Web Development – Django, Leaflet, OpenLayers, AWS, GeoServer, Linux, Apache, Arches General – Python, Adobe CS, GIMP, Inkscape, MS Office, HTML/CSS/JavaScript, pgAdmin, git/Github

#### Bio

Adam Cox is currently a candidate for a Master of Science in Geography at Louisiana State University, as well as the owner of Legion GIS, LLC, a geospatial consulting firm that he started in early 2016. Since graduation from Lawrence University in 2011 (B.A. Anthropology), he has pursued a self-guided career in GIS, oriented toward, though not limited to, historic mapping and cultural resource applications. Initially working in cartographic design, he now works mostly in web mapping and programming, with a specific interest in historic maps. More recently, his experience has veered toward programmatic data management, software design and web development, generally based in Python, Django, and web-based spatial technologies. Through this experience, he has become a strong proponent of open data exchange and free and open source software within the GIS field.