

SAMUEL F.B. JOHNSON

522 North Pinckney Street, Apt. 31
Madison, WI 53703

(608) 386-1473

sfbjohnson@gmail.com

Education

Graduate Certificate in GIS

University of Wisconsin, Madison, WI

May 2008

B.S. in Geography

University of Wisconsin-La Crosse

- Minor in History
- 3.8 Cumulative Career GPA

May 2005

Professional Experience

State Cartographer's Office

University of Wisconsin, Madison, WI

Intern

Fall 2007-Spring 2008

- Developed new methodology for visualizing archival, previously non-georeferenced land cover/land use maps of the Wisconsin Land Economic Inventory / Bordner Survey (1927-47) in the free modern program Google Earth and making them readily distributable via KML/KMZ file format
- Managed all facets of exploratory/pilot study in historical web-mapping, from data acquisition through entire process; troubleshooting, problem-solving and development of creative solutions; maintained strict accountability to all project oversight; and opened and maintained communications with key resource people through process; honed existing GIS, cartographic, and information management skills and acquired further technical GIS and scripting skills
- Worked with a variety of geospatial and related software and tools, both commercial and open-source: ArcGIS suite, ArcInfo Workstation (incl. Arc Macro Language) FWTools (incl. GDAL and Python), Excel to KML conversion utility, and Google Earth
- Published Bordner Survey project webpage with complete background, related informational links, and downloads of Google Earth map overlays and metadata in KMZ format on State Cartographer's Office Land Use/Land Cover Maps webpage – <http://sco.wisc.edu/maps/landcover.php>
- Presented project at WDNR Science Seminar on digital preservation of historical resources, May 2008

Axis Maps

Madison, WI

Contract Cartographer

March-April 2007

- High-volume contract cartography for Middle Eastern client, Etihad Airways, under highly constrictive deadline
- Digitized and labeled tourist-aimed city maps for global destinations using Adobe Illustrator for upload and submission, utilizing stringent guidelines and procedure and with close communication with contractors and other cartographers via company's Web portal

Land Information and Computer Graphics Facility

September 2006-January 2008

UW Sea Grant Institute - University of Wisconsin, Madison, WI

GIS Technician

- Aided Sea Grant's Coastal GIS Specialist in wide range of short- and long-term geospatial tasks contributing primarily to Great Lakes Circle Tour 'Coastal Access Guide' and teaching of Urban Planning 969 course
- Created and maintained corresponding spatial layers (ESRI shapefiles, coverages, geodatabase features) and Google Earth KML layers for a plethora of feature types associated with the Coastal Access Guide (<http://aqua.wisc.edu/glct/>)
- Executed tasks running the gamut of GIS – data acquisition, digitization, geoprocessing and analysis, data layer derivation and format conversion, and cartography, and utilized many types of software/utilities including ArcGIS, Microsoft Office, other Windows programs/tools and various open-source utilities, applications, and scripts
- Worked autonomously while maintaining close communication with and accountability to supervisor

Center for GIS, Geography and Earth Science Department

Summer 2004

University of Wisconsin-La Crosse, La Crosse, WI

GIS Technician

- Assisted in the creation of a detailed land-use survey of La Crosse County and series of maps for MPO transportation planning, utilizing orthorectified 2000 and 2004 air photos
- Laid groundwork for Driftless Area Initiative (DAI) GIS; downloaded, projected, geoprocessed a variety of shapefiles, coverages, raster datasets covering areas of WI, MN, IL, IA within Driftless Area

Research / Volunteer Experience

Blair-Preston Historical GIS Project

October 2005-August 2006

"A GIS-Based Appraisal of Selected Historical Aspects of Preston Township, Trempealeau County, 1877-2003"

- Conceived and created new historical GIS with a collaborator on County Board, as a more ambitious counterpart to Burnside project
- Carried out *pro bono* under the auspices of the Trempealeau County Museum Board as a service to Blair-Preston and the County Historical Society
- Mapped 125 years of ethnic settlement and ownership; traced growth of Village/City of Blair; analyzed and explained parcelization trends; classified and mapped soils; mapped route of defunct Ettrick & Northern RR using GPS and wrote comprehensive history of the line; wrote or edited all explanatory and historical text, included black and white and modern photography of Blair-Preston area
- Entered as Map Poster (3) at the Wisconsin Land Information Association Annual Conference, March 2007, Appleton, WI; permanent public display pending

Senior Independent Study

Spring Semester 2005

“A GIS-Based Analysis of Ethnic Persistence and Rural Landscape Change in Burnside Township, Trempealeau County, Wisconsin, 1880-1980”

- Created an unprecedented historical geography/GIS project combining local history and rural sociology in ArcGIS
- Mapped 100 years of ethnic settlement/ownership; correlated influence of slope and elevation with ethnic settlement; wrote complementary background text covering relevant historical topics; included rare b&w photos
- Presented resulting posters (2) at Trempealeau County Historical Society summit, Beach Corners, WI, August 2005

Honors / Awards

- Honorable Mention, Interactive Map Category (for Bordner Survey mapping project) at Wisconsin Land Information Association Annual Conference (February 2008)
- Barbara Bartz Petchenik Memorial Graduate Award in Cartographic Design (UW Geography Department), May 2007
- Gamma Theta Upsilon International Geography Honors Fraternity, inducted 2003
- Golden Key International Honors Society, inducted 2003

Software Skills

- Proficient with ESRI ArcGIS (9.x) Suite, Microsoft Office Suite, Adobe Suite (with emphasis on Illustrator), Macromedia Flash, FWTtools, Google Earth/Maps, Web browsers like Internet Explorer, Mozilla Firefox, and Google Chrome, and open-source geospatial extensions, tools, utilities e.g. Earth Point Excel to KML, arc2kml
- Operable knowledge of and experience with hand-held GPS, CAD, MapInfo, uDig and Quantum GIS (open-source GIS packages), ERDAS Imagine, Python, Arc Macro Language (ArcINFO), GDAL and OGR scripting, S-PLUS, HTML coding, NASA World Wind, Microsoft Virtual Earth

Professional Affiliations

- Wisconsin Land Information Association, Member, 2007-Present
- Wisconsin Historical Society, Member, 2007-Present

Publications

“For God og Vort Land! Three Years of Campaigning In the 15th Wisconsin Volunteer Infantry, 1862-1865”

- State military history themed 11x17” color flow map/poster
- Recipient of a Barbara Bartz Petchenik Memorial Graduate Award in Cartographic Design (2007)
- Published and available for sale at the Wisconsin Veterans Museum, Madison, WI