

DAVID MCFEE

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Citizenship: United States/Australia/
United Kingdom

PROFESSIONAL PROFILE

Environmental scientist/GIS-remote sensing analyst with excellent communication and computer skills, and demonstrative success working in team environments. Experience analyzing complex environmental data and making presentations to state and federal agencies.

WORK EXPERIENCE

President Boodjamap, Inc. May 2009 - Present
Founder and part owner of Boodjamap Inc, a majority women and veteran owned small business that provides ecological mapping and GIS (Geographic Information System) services to public and private clients throughout Florida.

Sub-Contract GIS-Remote Sensing Analyst March 2008 - June 2011
South Florida Water Management District,
Supervisor: Ted Schall. Phone: (561) 682-6766. Email: tschall@sfwmd.gov

Under contract with the South Florida Water Management District (SFWMD) to produce a land cover map for wetland conservation areas in the northern everglades. Duties involved: Using Planar stereo soft-copy workstations to interpret and classify vegetation according to the Comprehensive Everglades Restoration Plan/REstoration COordination and VERification (CERP/RECOVER) classification scheme; presenting alternate technologies to the SFWMD to improve the classification method (*e.g.* object-oriented segmentation); collecting field data and developing ground-truthing methods appropriate for use in helicopters and airboats.

GIS Analyst June 2006-July 2006; February 2007- February 2008
Benton County Administration,
Supervisor: Elizabeth Bowen. Phone: (479) 271-1749. Email: ebowen@co.benton.ar.us

Managed the creation of high resolution hydrography data for north-west Arkansas as part of the USGS National Hydrography Dataset (NHD). Responsible for developing the overall strategy, data development and staff training.

Technical Assistant II July 2003 - July 2005
Center for Advanced Spatial Technologies,
Supervisor: Malcolm Williamson. Phone: (479) 575-2734. Email: malcolm@cast.uark.edu

Conducted analyses to identify and quantify wetland resources as part of the State of Arkansas Wetland Planning Initiative. Chief responsibilities included: gathering and transforming wetland data layers; applying GIS to identify high priority wetland areas; creating final output maps and reports; training incoming staff; liaising with state and federal stakeholders. Principle author, analyst and cartographer for the Ouachita Mountains and Arkansas River Valley assessments.

Graduate Assistant

January 2003 - June 2003

Department of Civil Engineering,

Supervisor: Kevin White, Ph.D. Phone: (251) 460-6174. Email: kwhite@usouthal.edu

Performed research into mitigating the negative effects of storm water runoff from coastal highways for the Coastal Transportation Engineering Research and Education Center, under a grant from the Federal Highway Administration.

Environmental Specialist I

June 2002 - September 2002

Sanders Engineering and Analytical Services

Supervisor: Johnny Sanders. Phone: (251) 633-4120. Email: sanders@sandersengineering.com

Conducted air quality audits throughout the south-eastern United States. Responsible for air quality sampling as detailed in the Environmental Protection Agency's Federal Code of Regulations. Duties involved gathering and analyzing emissions data to ensure EPA compliance.

Research Assistant I

January 2000 - December 2000

Alabama Water Watch (AWW)/ Department of Fisheries and Allied Aquacultures.

Supervisor for AWW: William Deutsch, Ph.D. Phone: 1-888-844-4785.

Email: wdeutsch@acesag.auburn.edu

Supervisor for Department of Fisheries and Allied Aquacultures: Bryan Duncan, Ph.D.

Phone: 334-844-9201. Email: bduncan@acesag.auburn.edu

Developed maps for use in publications and web based applications, provided technical assistance during water quality training workshops and educational seminars, and provided computer technical assistance to faculty of Auburn University's Department of Fisheries and Allied Aquacultures.

EDUCATION

M.A.: Geography (Focus: GIS/Remote Sensing)

2012

University of Arkansas Fayetteville, AR 72701

Thesis Title: *An Alternate Approach to Ecosystem Mapping: Fusing Infrared Orthophotography with Multitemporal Landsat Thematic Mapper Satellite Imagery for an Object-Oriented Classification of Bottomland and Pine Hardwood Forest, Southeastern Arkansas.*

B.S.: Environmental Management (Focus: Conservation Biology)

2001

Edith Cowan University, Joondalup, Western Australia 6027

Higher National Certificate: Mechanical Engineering

1993

Newcastle College, Tyne and Wear, United Kingdom NE4 7SA
Equivalent to a 2-year Associate Degree.

RESEARCH EXPERIENCE

- Executed a land cover assessment of pine-hardwood forest in Calhoun County, Arkansas. Developed a method that fused the spatial accuracy of infrared ortho-imagery with the spectral accuracy of Landsat thematic mapper satellite imagery, thus overcoming the spectral and spatial deficiencies of either dataset.
- Multiple field studies including: controlled burning Jarrah/Karri forest; the use of ants as bio-indicators; affect of changes in salinity vegetation and faunal composition; eutrophication on distribution and abundance of sea grasses; Banksia woodland restoration; and farm plan development.

SKILLS

- Hardware: Stereo soft-copy workstations; GPS equipment.
- Software: Proficient with Microsoft Office Suite; GIS packages (ESRI ArcGIS/ArcINFO and Geomedia); remote sensing packages (Definiens Developer, Erdas Imagine, PCI Geomatica, DAT/EM Summit Evolution and ENVI); drafting and design packages (AutoCAD and Adobe Illustrator); statistical packages (S-Plus and geoR); graphics packages (Adobe Photoshop); web design packages (Dreamweaver and Image Ready); video editing and production (Adobe Premiere).

PUBLISHED REPORTS

Barnes, A., L. Komlos, D. McFee, M. Williamson, and W. F. Limp 2005. *Final Report: GIS-Based Natural Resource Analyses for the Arkansas River Valley Wetland Planning Regions*. Fayetteville, Arkansas: Center for Advanced Spatial Technologies.

Husam, A., D. McFee, A. Smith, F. Trewby, M. Williamson, and W. F. Limp 2004. *Final Report: GIS-Based Natural Resource Analyses for the Arkansas Ouachita Wetland Planning Regions*. Fayetteville, Arkansas: Center for Advanced Spatial Technologies.

Brooks, J., D. McFee, A. Smith, F. Trewby, M. Williamson, and W. F. Limp 2004. *Final Report: GIS-Based Natural Resource Analyses for the Arkansas Coastal Plain Wetland Planning Regions*. Fayetteville, Arkansas: Center for Advanced Spatial Technologies.

AFFILIATIONS

- Phi Kappa Phi Honor Society
- Gamma Theta Upsilon International Geographical Honor Society
- American Society for Photogrammetry and Remote Sensing