

Curricula Vita

Nathan Jennings

City of Sacramento (December 2004 – Present)

Sr. GIS Analyst

Project Management (proposal, budget, logistics, human resources, scope of work, schedules, written documentation, presentations, deliverables)

Develop request for Proposal development and review and Evaluate Response to Proposals

Asset Inventory

Field Data Collection strategies (Trimble GPS and field hardware/software)

Business Systems Integration (work order management, asset inventories)

GIS protocol and process development, Enterprise GIS (ArcSDE)

Emergency Operations

Regional High Resolution Image and Topography Collection

GIS Training

Manager of GIS Student Internship Program

Independent GIS Consulting (2008-Present)

Various projects involving GIS data creation, data maintenance, technical documentation, Python scripting and geoprocess automation, develop multi-jurisdictional GIS cooperative efforts. See my website for more details. www.jenningsplanet.com click on Professional Services – Completed Projects.

Jones & Stokes, Associates (2000-2004)

Sr. GIS/Remote Sensing Analyst

Project Management (proposal, budget, logistics, human resources, scope of work, schedules, written documentation, presentations, deliverables)

GIS Analyses (Habitat conservation plans, biological impacts, opportunity/constraints analysis, mapping)

GIS Training (GIS analysis, mapping, Trimble/Garmin GPS)

Administrator for ArcIMS websites

Remote Sensing and Image Processing

American River College (Fall 2003 – Present)

Adjunct Professor

Introduction to GPS (recreational GPS and Trimble GPS, GPS Analyst, GPS Correct, TerraSync, Pathfinder Office)

Remote Sensing and Digital Image Processing*

Introduction to GIS Programming (Visual Basic for Applications and ArcObjects)

Intermediate GIS Programming (Visual Basic for Applications, ArcObjects, Python)

*I created this course and won a grant to supply professional image processing software for the classroom. This course is now a required course for the GIS Certificate and AS degree programs.

Ducks Unlimited, Inc. (1997 – 2000)

GIS/Remote Sensing Analyst

Project Management

Large area land cover resource mapping projects in Alaska and northern Canada using satellite remote sensing (optical and RADAR)

Development of Image Processing protocols and documentation

Client and Internal Staff Training

Programming (Data Entry software)

Peer Review

Wisconsin Dept. of Natural Resources (1995 – 1997)

Remote Sensing Analyst

Image Processing – Statewide land cover projects

Maintenance of Image Archive

M&M Mars, Inc. (Summers 1994-1995)**Research Assistant**

Develop GIS applications for European offices
Develop Image Processing protocols for crop monitoring
GIS Analyses

Education

1996 Master's of Science – Environmental Monitoring, University of Wisconsin, Madison, WI
Thesis: *Using Landsat TM and ERS-1 Data for Analyzing Texture and Improving Land Cover Assessment*
1993 Bachelor of Arts - Biology, Baylor University, Waco, TX

Publications and Presentations

Jennings, Nathan. *Managing Street Sign Assets: An enterprise geospatial business systems integration solution*. ArcUser, Winter 2009. (www.esri.com/news/arcuser/0109/streetsigns.html)

Jennings, Nathan. *Remote Sensing, Digital Image Processing, and Field Data Collection*. Guest Lecturer, UC Davis Medical and Veterinary Center, May 2008.

Jennings, Nathan. *Management and Use of Digital Orthophotography, Pictometry, and LiDAR in the City of Sacramento*. URISA Fall NorCal Meeting. September 2007.

Jennings, Nathan. *Digital Elevation Models (DEM): Creating and Use in the Classroom*. CalGIS 2007. April 2007, Oakland.

Jennings, Nathan (1999). *Conducting Field Sampling for Large Area Satellite Remote Sensing Projects in Alaska*. 1999 ASPRS Conference, May 1999.

Jennings, Nathan, R. Macleod, J. Payne, and D. Kempka (1998). *Using ArcView to Demonstrate Natural Resource Management Projects*. ESRI User Conference, San Diego, CA. July 1998. **Written in HTML for use on the internet.

Jennings, Nathan and D. Feheringer (1998). *Shrub Cutoff Delimma*. In-house document analyzing spectral data in satellite imagery for different percentages of shrubs. **Written in HTML so document could be viewed for public display.

Jennings, Nathan (1996). Thesis: *Using Landsat TM and ERS Data for Analyzing Texture and Improving Land Cover Assessment*. Master's Thesis, University of Wisconsin-Madison, pp. 169.

Environmental Monitoring Practicum (1995). *Natural Resource Management Using Remote Sensing and GIS in the Northern Chihuahuan Desert: Final Report*, University of Wisconsin-Madison, pp. 284.

Professional Membership

American Society of Photogrammetric Engineering and Remote Sensing (since 1994)

Related Experiences/Skills

Project Management Training – City Government Training (2005) and Project Management Institute Brailley and Associates, Project Management Training (2000)

GIS Business Plan (2004) -- Jones & Stokes – marketing, communication, and pursuant of revenue generating GIS projects, promote GIS and use within the company, GIS web services

Environmental Monitoring Practicum – 2 semester group project with Ft. Bliss Army base, El Paso, TX. GIS and remote sensing project to inventory and monitor vegetation, rangeland, and grazing impacts in relation to artillery and troop exercises

Interests

Family, hiking in the mountains, camping, water coloring, golf, traveling, reading, science, history