**Stacey D. Maples**

**GIS Specialist, Instructor, Evangelist & Geospatial Swiss Army Knife**  
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@mapninja

**References**

On Request

**Objective**

To allow researchers, scholars and do-gooders to do more meaningful work by helping them investigate, quantify and solve spatial problems with technology, and to be always doing something at least moderately amazing.

**Skills**

* Over 15 years of experience using Geographic Information Systems and geotechnology for research and teaching, the last 9 spent as Yale University's Geospatial Swiss Army Knife.
* Expertise in a broad range of geospatial and supporting software and hardware, including:
* The entire Esri GIS Software Ecosystem, including ArcGIS Desktop, ArcExplorer, ArcGIS for Server, ArcSDE, ArcPad, Collector for ArcGIS, ArcGIS for Android, ArcGIS for iOS, ArcGIS Online for Organizations, koop, and even ArcIMS
* A variety of other GIS and related software platforms, including (but not limited to) Google Earth Pro, QGIS, OpenGeoportal, Geoserver, TileMill, GDAL, DNRGPS, ENVI
* Web-based GIS platforms, APIs and services, including Google Maps, Google Maps Engine, Google Maps API, Google Geocoding API, Google Directions API, Google Earth Engine, Google Earth Engine Playground/API, CartoDB, Mapbox, OpenStreetMap, GeoCommons, Geojson.io, MapShaper.org, OpenMapquest API, Geolocate API, OpenLayers, Leaflet.js and more
* Development and scripting languages, including Python, JavaScript, MS-DOS Batch Scripting, and Unix Shell
* Operating systems, including all Windows Desktop and Server, Debian GNU/Linux, Ubuntu GNU/Linux, and RHEL
* Application and database platforms, including Apache, IIS, Tomcat, MS SQL Server, MySQL, PostgreSQL
* Web markup, application platforms and data formats, including HTML, PHP, JavaScript, XML, Markdown, (Geo)JSON, KML, GML and others
* Consumer grade GPS Equipment, including extensive experience with Garmin and Trimble units
* Survey grade mapping equipment, including Dual-Signal GNSS/GPS systems, RTK GPS Systems and total station survey equipment
* Mobile Phone/Tablet hardware and software management, including Android, iPhone, ADB, side-loading, unlocking and rooting techniques
* Android, iOS and Windows Mobile data collection software, systems and strategies for field data collection
* Sub-Surface remote sensing techniques, software and hardware, including Ground Penetrating Radar, Magnetometry and Electric Resistivity
* Archaeological excavation and survey data collection methods
* Kite and Balloon Aerial Photography techniques (I come with my own IR/RGB aerial rig)
* Expertise in planning, implementation and management of long-term GIS projects
* Expertise in designing and implementing integrated, multi-user geospatial field data collection systems
* Expertise in digitization of cartographic materials, including rare and physically sensitive collections
* Expertise in cartography for research and scholarly publication
* Expertise in writing technical content
* Expertise in designing and delivering GIS training programs
* Expertise in supporting high level use of spatial data, technology and methods in research and teaching
* Expertise in the administration, distribution and management of enterprise GIS software and services in an academic and research environment
* Expertise and particular enthusiasm for supporting field data collection in remote and challenging environments

**Experience**

**Geographic Information Systems Specialist & Instruction Coordinator - Yale University Library Map Department**

**Sept 2010 – Present**

**Abraham Parrish,** [**abraham.parrish@yale.edu**](mailto:abraham.parrish@yale.edu)

* Creation, coordination and teaching of The Yale Map Department's Geospatial Technology Instruction Program
* Administration of Esri, Google Earth/Maps and CartoDB Enterprise Education Site Licenses
* Coordination of student and full-time staff on departmental projects
* GIS data collection development
* Technical support for the use of GIS and Geotech in research and teaching.
* Collaboration in Faculty research & curriculum development
* Research GIS infrastructure administration, including system and database administration of 8 distinct server systems
* GIS and Geotech related event coordination
* Print Map reference and research services
* Management of digitization workflows
* Management and circulation of GPS and field data collection equipment collection

**Geographic Information Systems Assistant & Instruction Specialist - Yale University Library Map Department**

**Aug 2005 - Sept 2010**

**Abraham Parrish,** [**abraham.parrish@yale.edu**](mailto:abraham.parrish@yale.edu)

* Creation, coordination and teaching of The Yale Map Department's Geospatial Technology Instruction Program
* Technical support for the use of GIS and Geotech in research and teaching
* Collaboration in Faculty research & curriculum development
* Research GIS Infrastructure Administration, including System and database administration of 8 distinct server systems

**Research Assistant / Teaching Assistant - University of Texas at Dallas**

**Aug 2003 to Aug 2005**

**Dr. Kevin Curtin (See references)**

* Planning and execution of various research projects
* GIS software (ESRI) support and instruction
* Creation, editing and maintenance of geographic data sets in several formats
* System administration and GIS lab management
* Preparation and grading of curriculum
* Lecture and lab presentations
* Courses:
* Introductory GIS
* GIS for Social Sciences
* World Regional Geography
* Transportation & Logistics
* Internet Mapping with ArcIMS

**Archaeologist / Researcher - Chaves Ranch Archaeological Project, Albuquerque, NM**

**Seasonal 1996 - 2003**

**Dr. Michael Adler (See references)**

* Systematic Data Recovery Planning, Execution and Supervision
* Excavation Unit Crew Chief
* Walking Survey Crew Chief
* Archaeomagnetic sampling
* Satellite Remote Sensing Analysis
* Assembly of Project Specific Geographic Information Systems Datasets
* Planning and Execution and Analysis of Geophysical Survey, including: Magnetometer, Electric Resistivity Survey, & Aerial Photography
* GPS & Total Station Mapping
* Completion of ARMS documentation and field forms.
* Identification, excavation and preparation of dendrochronological samples.
* Processing, analysis, seriation and curation of artifacts.
* Preliminary Historical Research of previous excavation and site reports, geologic and soil survey data for Chaves Ranch at the New Mexico Archeological Resource Management System Center.
* Received the Clements Award for Southwestern Studies, Southern Methodist University, to fund travel and materials for research.
* Provisioning, cooking and camp logistics for a crew of 25+

**Archaeological Lab Technician - SMU Department of Anthropology**

Aug 1996 – May 1997

**Dr. Michael Adler (See references)**

* Processing, analysis and curation of artifacts
* Reassembly, seriation and volumetric analysis of archeological ceramics
* Digitization of excavation maps, profiles and field notes
* Misc. Clerical and lab tasks
* Preparation of dendrochronological samples for submission and shipping to lab
* Relational Database Creation and Maintenance

**Owner/Manager Skin&Bones**

**June 1989 – Sept 2003**

* Nearly 15 years of Supervisory/Managerial experience
* Human resources, payroll, budget planning and implementation
* Licensing and government oversight requirement fulfilment
* Customer relations, sales
* Vendor relations, purchasing
* Advertising and promotion strategy, design and copy
* Webmaster

**Education**

**QGIS Academy, DelMar College, Currently Enrolled**

<http://foss4geo.wordpress.com/2014/08/10/announcing-the-new-qgis-academy/>

**Google Geo for Higher Ed Summit, July 22-24, 2013**

Various Workshops and panels familiarizing participants with the Google Geo Platforms, including: Google Earth Pro, Google Maps Engine Lite, Google Maps Engine, Google Earth Engine, Google Timelapse, Field Mobile Data Collection with ODK Collect, Google Earth Portable, Google Maps APIs, and Street View.

**Esri T3G (Teachers Teaching Teachers GIS) Institute, June 13-18th 2010**

"A professional development event for educators and education influencers who help other educators learn why and how to use GIS." Included hands on workshops in basic use of Esri software, pedagogy discussion and group work.

**ESRI Training, July 2009**

* Data Management in the Multiuser Geodatabase
* ArcGIS Server Enterprise Configuration and Tuning for SQL Server

**University of Texas at Dallas, 2005**

* M.Sc. in Geographic Information Sciences & Remote Sensing
* Graduate Certificates in Geographic Information Systems and Remote Sensing

**National Park Service / Dept. of the Interior, 2004**

* Certification - Geophysical Survey & Prospection for Cultural Resource Management

**University of North Texas, 1997-1999**

* Non-Degree Seeking Graduate, Geographic Information Systems / Archaeology

**Southern Methodist University, 1997**

* B.Sc. in Anthropology/Archaeology, Minor in Latin American Studies.
* Graduated with Honors
* Departmental Distinction Award
* Clements Award for Southwestern Studies
* Edward I. and Peggy C. Fry Award for Academic Excellence in Undergraduate Anthropology

**Ft. Burgwin Archaeological Field School - 1996**

* Archaeological field methods and writing

**Selected Projects**

Please see <https://github.com/mapninja/CV/> for more projects

**The Urban Resource Initiative New Haven Street Tree Survey**

A Continuing project to map the more than 30k street trees in The City of New Haven. Initial conceived as a field data collection exercise for the urban segment of The Yale School of Forestry's 3-week graduate orientation, "MODS," this is an ongoing survey, now in its 6th year. The project's core is an ArcSDE/MSSQL database of the 30k tree "locations" and more than 70k inventory records associated with them. As software platforms have evolved and suitable hardware has become ubiquitous, the project has gone from using a small suite of Trimble Juno units with ArcPad's "Check-in/Check-out" methods, to now creating feature services from ArcGIS for Server, through ArcGIS Online for Organizations, and be deployed for offline editing through Collector for ArcGIS on iOS and Android. The latest iteration of the project has made it possible for students to use their own equipment to survey, without incurring cellular data costs, and freeing the project from the cost of purchasing and maintaining equipment.

**Photogrammar**

[photogrammar.yale.edu](http://photogrammar.yale.edu/)  
Yale University's first NEH Digital Humanities Start-Up Grant [[HD-51421-11]](https://securegrants.neh.gov/publicquery/main.aspx?f=1&gn=HD-51421-11)  
"The Photogrammar Project is a Yale University Public Humanities Project designed to offer an interactive web-based open source visualization platform for the one-hundred and sixty thousand photographs created by the federal government from 1935 to 1943 under the Farm Securities Administration and Office of War Information (FSA-OWI)."

Working closely with other members of the Photogrammar Team, I have been responsible for the creation and management of the geospatial data for the project. This has included geocoding ninety thousand images (~5000 unique locations) using various geocoding platforms and APIs. The bulk of the geocoding work was done using Tulane University's Geolocate API, through Google/OpenRefine. Work also included the attachment of location information to the existing collection metadata and association with historic county boundary data, using SQL, for visualization in the CartoDB platform.

**Selected Talks & Consulting**

Please see <https://github.com/mapninja/CV/> for more talks and consulting

**“Prospect Park Tree Survey Project Design & Implementation Workshop**” Nature Conservancy, NYC. July 2014

Delivered a day-long workshop with NYC Nature Conservancy Interns on the design, implementation and use of a Tree Survey System based upon ArcGIS Online and Collector for ArcGIS. The project established the infrastructure for an ongoing survey of trees in Prospect Park. Facilitator: Rachel Holmes -[rholmes@TNC.ORG](mailto:rholmes@TNC.ORG)

**"Charting Vanishing Voices Workshop”** at The World Oral Literature Project, Cambridge, UK. June 2012

Invited to accompany Yale faculty member Dr Mark Turin to Cambridge, UK, for a two-day collaborative workshop in June 2012 bringing together scholars, digital archivists and international organizations to share experiences of mapping ethno-linguistic diversity using interactive digital technologies. My presentation focused on the difficulty of expressing uncertainties in mapping textual localities associated with ethno-linguistic collections. Having provided an overview of the process of "Geocoding," as well as standards for determining locations and spatial uncertainties when applying spatial referencing to text-based descriptions associated with collections, I highlighted recent more innovative work in fields concerned with biodiversity.

**“Crossing Domains: Digital Collection Sharing Among Museums and Libraries”** at The International Center of Photography, NYC. April 2012

Co-presenter with Dr. Laura Wexler, presenting the NEH Start-up Grant funded Yale Photogrammar Project. I discussed and demonstrated methods for geocoding large collections of text-based localities using various APIs and open source software.

**Where We Live: "The New Cartography: THE ENDLESS POSSIBILITIES OF MAPPING IN THE 21ST CENTURY."** Invited Guest Speaker, WNPR. June, 2011.

A discussion of mapping in the 21st century, and the effects of web-based platforms like Google Maps and OpenStreetMap on the presence of cartography in our everyday lives.

**“Maps, Mash-ups and the Geo-everything.”** at NERCOMP: Geo-everything: Map Mash-ups, Geotagging, and Interactive Learning. Southbridge, MA. January, 2010.

Workshop on using various methods of digital photography geotagging for data collection workflows.

**“Supporting GIS in Research and Education at Yale.”** at The Geography Geoseminar: University of Connecticut Department of Geography. Storrs, CT. May, 2009.

Overview of GIS and Geospatial technology support for research and teaching at Yale University.

**“GIS Technology for Emergency Preparedness.”** at Addressing the Needs of Diverse Populations in Community Preparedness Efforts Conference. Sponsored by The Yale Center for Public Health Preparedness. New Haven, CT. April 2008

**Publications**

**Please see** [**https://github.com/mapninja/CV/**](https://github.com/mapninja/CV/) **for a list of all publications**