

Master of Science of Geographic Information Systems Technology (MSGIST)

2014 Resume Book



Select 2014 MSGIST Students

Jessica Styron Abrahams

Leandra Arechederra-Romero

William Beaver

Shane Clark

Cassie Fausel

Gwynn Harlowe

Pankaj Jamwal

Jessica Fraver

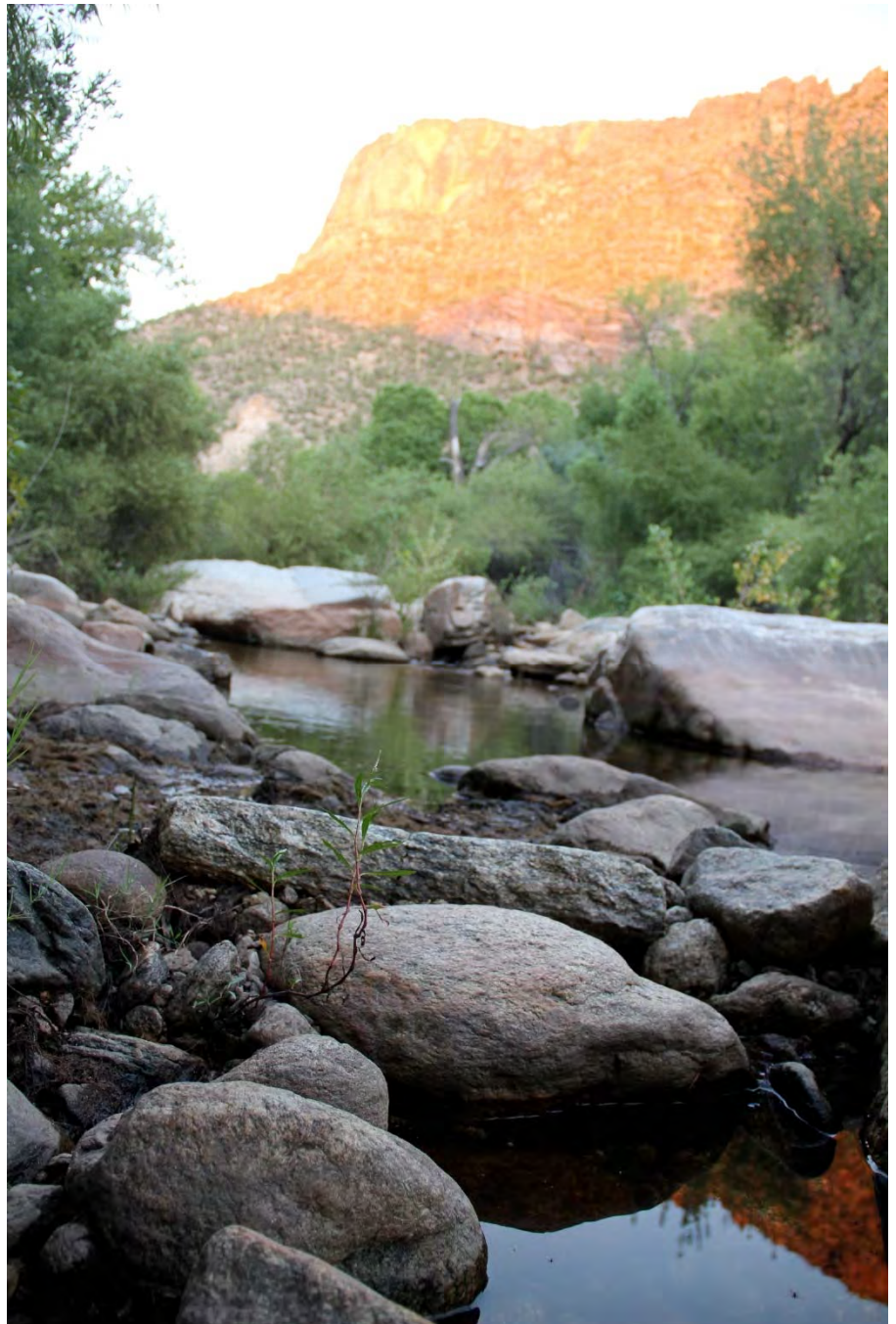
Michael Levengood

Manny Lizarraga

Brett Stauffer

Jamie Velkoverh

Nathan Wasserman



RESUMES

Jessica Styron Abrahams (formerly Jessica Alicia Styron)

2002 East River Road, Apt. S10

Tucson, AZ 85718

Mobile: (925) 451-6289

Qualifications

01/2014 – 12/2014

Qualification:

University of Arizona, Tucson, Arizona.

Masters of Science in GIS Technology (expected 12/2014)

08/2009 – 12/2001

Qualification:

University of Arizona, Tucson, Arizona.

Masters of Science in Planning

04/2002 – 07/2003

Qualification:

Chapman University (Concord Campus), Orange, California.

Single Subject Credential in French with Supplementary Authorization in Introductory English

08/1997 – 12/2001

Qualification:

University of California at Berkeley, Berkeley, California.

Bachelors of Arts in French and in Comparative Literature.

Between August 1999 – June 2000, Participated in the Education Abroad Program in Grenoble, France and attended the Université de Grenoble III, Stendhal. I graduated with a GPA of 3.44.

Employment

03/2014 – 12/2014

Main duties:

BAIR Analytics, Inc. Highlands Ranch, Colorado. *Intern.*

Extracted and transformed vector shapefiles in GIS to create topographical maps.

03/2011 – 08/2011

Main duties:

City and County of San Francisco, Recreation and Parks Department, Planning Division, San Francisco, California. *Student Design Trainee 1*

Reviewed and responded to CEQA and NEPA documents for projects impacting Recreation & Parks Department (RPD) facilities; Researched and summarized best management practices; Tracked and summarized U.S. Census trends and changes from 2000-2010; Summarized park acquisition policies in support of RPD's land acquisition program; Attended San Francisco's Pedestrian Safety Task Force meetings, participated on the Engineering subcommittee, and tracked the effect of potential changes to RPD properties; Posted and tracked notices related to rezoning of RPD property; and provided information regarding RPD services to local planners upon request.

03/2005 – 08/2009

Main duties:

McAfee Inc. (acquired Secure Computing Corporation in November 2008), Concord, California, USA. *Senior Web Analyst.*

Searched for websites in English and French, viewed the sites in a browser-based frameset, researched the contents of websites as needed, and categorized them for uploading into a control list. Performed query analysis of phishing and spam URLs using SQL commands and/or PutTY. Translated documents from French to English, and vice-versa, as needed. Maintained and fine-tuned autorater files in French and English using Visual Editor commands. Set up training sessions for new Surfmasters (part-time workers) and Web

Analysts as needed, and provided support to Surfmasters regarding categorization questions.

08/2003 – 05/2004 University of Wisconsin at Madison, Department of French and Italian, Madison, Wisconsin, USA. *Teaching Assistant, French 101.*
Main duties: Taught French 101 at the University level, wrote tests and quizzes, managed a classroom, planned lessons, assigned grades, and created an effective learning environment.

Extracurricular Activities

09/2009 – 11/2010 University of Arizona, Graduate Planning Society, Tucson, Arizona, USA. *Student Representative to the American Planning Association Student Representatives Council.*

Awards and Honors

November 2007 Third quarter "You Made a Difference" Award for French/English translations for Secure Computing Corporation.

February 2010: Selected by the University of Arizona to attend the 13th annual Energy & Environment Conference and Expo (EUEC 2010) in Phoenix, AZ. and to receive a grant funding all registration and attendance fees.

April 2010: Won 2nd place in the Tucson Electric solar park design competition as part of a team.

September 2012: One of ten recipients of the 2012 Arizona Planning Chapter Student Planning Project Award for the Sahuarita Open Space Plan as part of the University of Arizona Planning Program.

August 2014: Received an Arizona Workforce Ready Fellowship from the University of Arizona for the Fall 2014 semester.

Special Interests and Skills

Skills: ESRI's ArcGIS; Python; SQL; HTML; Java; Microsoft Office, Adobe suite; French (fluent); LIDAR; ERDAS

Languages: English (mother tongue)
French (fluent)

Interests: GIS, urban planning, environmental planning, land use planning

Leandra Arechederra-Romero

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Tucson, AZ 85716
(520) 609-3406
Laromero@gmail.com



ACADEMIC EXPERIENCE

University of Arizona, Tucson, Arizona
Masters of Science in GIS Technology

Expected December 2014 GPA: 4.0

University of Arizona, Tucson, Arizona
Bachelors of Science in Geosciences-Geology
Minor in Spanish

Graduation Date: August 2012 GPA: 3.093

RELEVANT GIS CONCEPTS

Coordinate systems, geoprocessing, digitizing, Model Builder, Python, web mapping, raster operations, LiDAR processing, geodatabase management, cartography, digital terrain models, remote sensing analysis, ArcGIS Online and ArcGIS Server. All work conducted using ESRI ArcGIS and ERDAS Imagine.

EMPLOYMENT

GIS Research Support (Part time, temporary)

University of Arizona Center for Geospatial Innovation, Science and Technology (UAGIST); Tucson, Arizona

November and December 2014

- Use GIS to perform QA/QC duties on data.
- Research, document, and present information related to GIS processes.
- Participate as a full member of the research team, attending and contributing to relevant research meeting and associated activities.

Biological Science Aid (Part time, temporary)

United States Geological Survey, USGS Paleoecology Labs; Tucson, Arizona

March – July 2012

- Data entry of Neotoma middens from North and South America into Tilia for later uploading into the Neotoma Paleoecology Database.

Research Intern (Part time, temporary)

Southern Arizona Geosciences Union for Academics, Research, and Outreach (SAGUARO) NSF sponsored; University of Arizona, Tucson, Arizona

September 2009-March 2012

- Conducted research, planned, organized, and participated in outreach events in the local community such as Saturday Science Academy and Saturdays at Flandrau Science Center.

RESEARCH EXPERIENCE

Research Intern (Part time, temporary)

NSF Research Experience for Undergraduates (REU) in Biodiversity Conservation; Wilmington, North Carolina

May - July 2010

- Conducted a live-dead analysis on *Crassostrea virginica* reefs in southeastern North Carolina with Dr. Patricia Kelley and Dr. Greg Dietl.
- Sorted, counted and identified mollusks to genus and species levels.

Independent Researcher (advised by Dr. Karl Flessa)

Southern Arizona Geosciences Union for Academics, Research, and Outreach (SAGUARO); University of Arizona, Tucson, Arizona

October 2009 – May 2012

- Conducted research on two Colorado Delta wetlands and radiocarbon dated *Crassostrea virginica* shells to incorporate into live-dead analysis on *Crassostrea virginica* reefs in southeastern North Carolina.
- Field Assistant to Dr. Karl Flessa and Dr. Leigh Fall during Taphonomy Field Conference (April 2011) to Colorado River Delta, Baja California, Mexico.

SKILLS

Computers: ESRI software: ArcGIS 10.1, 10.2, 10.2.2, and ArcGIS Server. Microsoft software: Word, PowerPoint, Excel and Outlook. Adobe Illustrator, Photoshop. Operating Systems: Windows 7 and Mac OS X.

Professional: Effective communicator, engaging team player, strong written and verbal skills, capacity to learn new technologies, innovative analytical and technical skills.

HONORS AND AWARDS

- Workforce-Ready Master's Fellowship, University of Arizona, 2014.
- Best Undergraduate Poster at GeoDaze, 2010, Department of Geosciences, University of Arizona.

LEADERSHIP AND COMMUNITY SERVICE

President, Society of Earth Science Students. University of Arizona, Tucson, Arizona

August 2010 - May 2011

- Supervised meetings, managed club funds, organized guest speakers and participated in outreach.

Treasurer. August 2011- May 2012

- Managed club funds, assisted in guiding club meetings and participated in outreach.

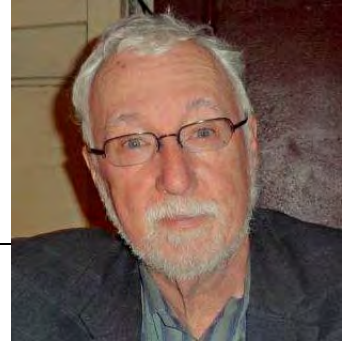
Volunteer, Arizona Geological Survey. Tucson, Arizona

November 2012-December 2012

- Constructing article on post-wildfire workshop on the Chiricahua Mountain's Horseshoe 2 fire for Arizona Geology Winter 2012 issue.
- Cataloging materials and data entry of items contained by the AZGS.

William Jeffrey Beaver

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OBJECTIVE To obtain a position in applications development.

EDUCATION

University of Arizona, Tucson, Arizona
Masters of Science in GIS Technology

Expected December 2014

Marietta College, Marietta, Ohio
Bachelors of Arts in Mathematics

Graduation Date: December 1972

ADDITIONAL TRAINING

University of Arizona, 2004-2007

- Bioinformatics
- Mathematics of Computer Graphics
- Mathematical Modeling
- Principles of Evolution
- Advanced Statistics for Biology

Coursera Online Courses – Certificates of Distinction, 2014

- Human Evolution: Past and Future – University of Wisconsin, Madison
- R Programming – John Hopkins University
- The Data Scientist's Toolbox – John Hopkins University
- Reproducible Research - John Hopkins University

Stanford University – Stanford Center for Professional Development (2011-2012)

- iPad and iPhone Development
- The Fourier Transform and its Applications

EXPERIENCE

Year End	Year Start	Company	Location	Job Title
	2014	SALT (Strategic Alternative Learning Techniques) Center	University of Arizona	Tutoring mathematics, programming
2014	1992	Pima Community College	Tucson, Arizona	Adjunct Faculty Digital Arts, Mathematics
2014	2006	Science Approach	Tucson, Arizona	Programmer, IT Manager

Year End	Year Start	Company	Location	Job Title
2010	2007	Osek Media	Tucson, Arizona	Project Development Systems Analyst
2006	2005	Rock & Water Resources Library (GROW)	University of Arizona	
2004	1999	Systasis Systems	Tucson, Arizona	Programmer, Analyst
1999	1997	Applied Video	Tucson, Arizona	Multimedia Development
1997	1992	JHK & Associates	Tucson, Arizona	Senior Programmer
1989	1992	Pirouette Productions	Tucson, Arizona	Computer Animator
1989	1987	Palo Verde Software	Tucson, Arizona	Programmer
1987	1979	Emergence Software	Tucson, Arizona	Director

SKILLS

- Knowledge of most digital media including text, video, animation, and still imaging including design, processing and different file formats and compression schemes. Some digital sound experience.
- Knowledge of relational, flat and object-oriented databases.
- Programming knowledge with skills in several programming languages. The ability to quickly learn a new language.
- Knowledge of digital libraries, content management systems, course management systems and e-commerce systems.
- Worked with most web based activities and services and in one device format (Apple Ipad).
- For the last four years I have managed a Fedora Linux server with about 20-30 web clients and as of March 2014 I have been managing my own Ubuntu Linux server with 8 web clients.

PUBLICATIONS

2013	Lab Apprentice iPad App	Science Approach E-Learning
2012	Teen Brains on Alcohol & Other Drugs	Science Approach E-Learning
2012	Your Brain Without Sleep	Science Approach E-Learning
2011	Form & Function of Individual Neurons	Science Approach E-Learning
2011	New Neurons for You After All	Science Approach E-Learning
2010	Seeing GABA ^A Receptors at Work	Science Approach E-Learning
2007	SIMPLE Science – simplescience.org	Science Approach E-Learning
2005	GROW Digital Library	GROW, University of Arizona
1999	Violin Voices, sounds of the Old Pueblo.	Applied Video
1999	Early Learning Literacy, Project Rhyme	Applied Video
1994	VTRACS – Video imaging analysis of traffic volume, size and velocity in freeway lanes.	JHK & Associates
1989	HWCA I & II, Hydrogen Water Chemistry Analysis.	Emergence Software
1986	Math Facts Mastery	Emergence Software

RESEARCH SUPPORT

1R43HD074327-01A1 Moore (PI) 3/1/2012-2/28-2014 NIH/NICHD

VoxelDiscovery 5-8: Engaging the Middle Grades in Visualization of the Nervous System

The major goal of this project are to evaluate the feasibility of creating ten e-laboratory and iPad app combinations that help students apply the scientific method and neuroscience to make healthier decisions in their lives.

Role: Programming consultant

2R42HD049973-02 Moore (PI) 7/15/2009 – 6/30/2011 NIH/NICHD

Volumetric Imaging for Science Instruction of an Open Nature

The major goals of this project are to create four e-learning modules that employ volumetric image analysis as a tool for K-12 education.

Role: Programming consultant

1 R43 MH070250-01 Moore (PI) 3/1/2004 – 2/28/2007 NIH/NIMH

NeuroVisions: Teaching Neuroscience Research Methods with Neuroimaging Data

The major goals of this project are to test a prototype lesson for teaching psychology and neuroscience research methods at the undergraduate level.

Role: Programming consultant

0333723 Moore (PI) 1/1/2004 – 12/31/2006 NSF/NSDL

SIMPLE Science: Image-based learning tools for K-12 education

The major goals of this project are to develop a collection of online activities that simplify the process of using image analysis for middle school science education.

Role: Programming consultant

NNH04ZNS003N Moore (PI) 7/1/2005 – 6/30/2007 NASA HQ

Visual Instruction Support for Inquiry-based Odysseys in the NASA Explorer Schools

The major goals of this project are to provide GIS and image analysis professional development for the NASA Explorer Schools.

Role: Programming consultant

0323127 Moore (PI) 9/1/2003 – 8/31/2006 NSF/ITEST

Ocean Explorers: Using GIS and IPA for Dynamic Ocean Science Education

National Science Foundation ITEST Program,

The major goals of this project are to provide professional development on geographic information systems, image analysis, and ocean science for middle and high school teachers in California.

Role: Programming consultant

0121691 Budhu (PI) 09/15/2001- 09/15/2005 NSF DUE

Geotechnical, Rock and Water Resources Library (GRAWRL)

Towards a National Civil Engineering Education Resource Library

This project is promoting wide-spread access to quality information, resources, and activities in support of learning, teaching, and research in the areas of geotechnical engineering, rock engineering, and water and its use. The effort is envisioned as a component of a larger national civil engineering digital library providing "one-stop" access to resources to meet the learning, teaching and research needs of a wide audience including higher education, professionals, and the community at large.

Role: Systems Developer

REFERENCES

J David Betts, Ph.D
University of Arizona
bettsj@email.arizona.edu
520-621-4035

Steven D. Moore, Ph.D.
University of Redlands
steven_moore@redlands.edu
909-748-8687

Chris Lukinbeal, Ph.D.
University of Arizona
520-621-6181
clukinbe@email.arizona.edu

Shane T. Clark
3407 E 5th St. Tucson AZ 85716
603-759-1825
Email: hopper@email.arizona.edu



OBJECTIVE:

Seeking Professional GIS work experiences to foster and utilize my diverse knowledge and skills.

EDUCATION:

University of Arizona, Tucson, Arizona
Masters of Science in GIS Technology

Expected Graduation: December 2014

Relevant Coursework: Spatial analysis, remote sensing, addressing normative and/or scientific geographic problems, data capture, compilation and manipulation, formulating methods and analysis to address the problem within a given timeline.

University of Arizona, Tucson, Arizona
Bachelors of Science in Watershed Hydrology

Graduation Date: 2013

Relevant Coursework: Compile data from reputable sources, operative mean and standard deviation statistical data, utilizing coefficients and formulas to compute and process data (including data reduction), interpret results (recognizing unusual data or trends) in order to create & analyze hydrographs, forms, diagrams and charts

WORK EXPERIENCES:

U.S. Department of Veterans Affairs: Veterans Health Administration: *Telephone Operator GS-0382-04*
April 2013 - Present: *for Kourtney Gard*

- Monitor aural and visual signals on the SALCO control board, Hill-Rom, and Marquee Alarm systems, providing necessary responses and action for all notifications, codes, and emergencies.
- Maintains, record, and Log all incidents that occur, utilizing the Veterans Health Information & Technology Architecture (VISTA) electronic on-line computer system.
- Maintain callback and on-call rosters, via Federal management system, of all Care/Services lines, medical staff, and any other vital system information.
- Operate telephone switchboard and commuter software to provide accurate VA hospital communications, communicating effectively (orally and in writing) with individuals and groups from a variety of backgrounds while demonstrating professionalism, positive attitude, and passion.

U.S. Forest Service: Hat Creek Ranger, Lassen National Forest: *Hydrologic Technician GS-1316-05*

May 2012 - November 2012: *for Dr. Shawn Wheelock*

- Plan, organize and execute Hydrologic work tasks while resolving conventional problems to accomplish work goals through various steps, processes and methods.
- Prepare analyses, charts, forms, and hydrographs that require the application of a number of different and unrelated methods, procedures, and techniques.
- Creating and maintaining inventory files and updating databases using computer packages to track and order needed inventory.
- Collection, processing and analysis of water samples for various chemicals and constituents by running sample diagnostics, interpreting data, compiling and recording results of data analyses.
- Hydrological reports and documentation. Conduct technical studies of field data to prepare drafts, maps, and other illustrative material for publication.
- Interpret appropriate Federal rules, regulations, policies, and operational procedures.
- Measurement, Surveying, Mapping, Testing, and Data Collection (Set up, adjust, operate, and maintain hydrologic equipment) for Hydrological Studies Support (recognizing unusual situations to thereby resolve any errors effecting data collection accuracy).

University of Arizona, Hydrology and Water Resources Department: *Academic Technician:*

August 2010 - May 2012: *for Dr. Thomas Meixner*

- Measuring, collecting and analyzing hydrological data, testing the quantity, quality, availability, movement, and distribution of ground, surface water, and soil for environmental restoration, remediation insights.
- Maintained orderly field logs, routine data entry (scanning), database management (Microsoft Office, including Word, Excel and Outlook), using organizational and planning skills for time sensitive research projects.
- Followed established methods and procedures to preserve the physical, chemical, and biological integrity of samples for research data.
- Install, inspect & service, maintain, and operate hydrological instruments, devices, and equipment (recognizing operational problems and deviations from expected results) in the field, taking account of hydrological method and techniques (modifying the standards when necessary).

University of Arizona, Natural Resources Department: *Student Technician:*

August 2008 - August 2010: *for Dr. Kathleen A. Lohse*

- Water/soil sampling (surface, groundwater, and soil samples), data collection, and laboratory experiences to facilitate watershed restoration, conservation biology, and ecosystem sciences for soil and groundwater remediation insights into urban infrastructure impacts on water quality.
- Implemented existing or improving study methodologies to preserve the physical, chemical, and biological integrity of samples.
- Updated procedural reports describing research techniques and methods.
- Helped to maintain www.Rainlog.org (precipitation gauge network and database).
- Established & maintained a Tucson based citizen science rain sampling network and data base.

U.S.G.S. Water Resources Dept. at the Desert Laboratory: *Research and Physical Sciences Technician:*
July 2008 - May 2012: for Dr. Waite Osterkamp and Dr. Julio L. Betancourt

- Digitizing Vigil network files (Sediment Impacts from Disturbed and Undisturbed Lands).
- Assist in review and process of USGS Goat Island publication.
- Development of a sediment and erosion (research) on-line database called the Watershed-Scale Sediment Information Network (WASSIN).
- Offered valuable supportive research, creating usable slides for 2 presentations given by Waite.
- Create GIS maps from original survey measurements of the Santa Cruz river channel.

United States Air Force: *Aerospace Mechanic*
November 1993 - November 1997

- Inspects and maintains all aircraft related items, documenting any discrepancies in quality or condition and reports to maintenance supervisor
- Utilized computer packages designed to track and automate purchasing and inventory of all needed aircraft parts and related equipment.

NOTEWORTHY:

Selected as an AGIC 2014 conference full scholarship recipient, September 3-5 2014

Creative team member of Venue and Attractions maps for 2014 APCG Conference, September 24 -27 2014

(<http://uagis.maps.arcgis.com/home/webmap/viewer.html?webmap=374e4a6bfa414b7485edac24f1bafb9a>)

Active Arizona Hydrologic Society (AHS) Corporate Officer, Fall 2008- Present

Symposium Chair-person for the 2010 AHS National planning Symposium, Spring 2009-Fall 2010

American Engineering Geologists member, Spring 2010-Present

Alpha Zeta Honorary Chapter member, Fall 2009- Present

Phi Theta Kappa joint chapter member, Spring 1998- Present

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RESUME



+ EDUCATION- University of Arizona

12 | 2014 **Master of Science in Geographic Information Systems Technology** Masters Project: Accessibility-Based Multicriteria Analysis for Urban Agriculture Locations within Tucson, Arizona.

12 | 2014 **Master of Science in Environmental Science** Masters Project: Soil & Nutrient Management Evaluations for Irrigated Crops in the Desert Southwest. Certificate in Water Policy

2013 **Master of Science in Agricultural Education** Certificate in Secondary Education

2011 **Bachelor of Science in Environmental Science** Focus in Policy

+ PROFESSIONAL SKILLS

Geographic Information Systems Technology
Raster / Vector Structure and Surface Interpolation Network / Spatial Analysis
Terrestrial LIDAR

Environmental
Arid Land Management
Compliance | RCRA, CWA, NEPA
Phase I & II Reporting and Sampling
Risk Assessment

Educational
Curriculum Design and Implementation
Youth Leadership and Organization

+ SOFTWARE

Adobe: InDesign, Illustrator, Photoshop

ArcGIS: ArcMAP 10, ArcGIS Online

Microsoft Office: Access, Excel, PowerPoint, Word

Statistical Analysis: JMP, SAS, SPSS, Python

Web Application: Drupal, Javascript

Cassandra Fausel, M.S.
ENVIRONMENTAL SCIENTIST
GIS ANALYST

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+ EXPERIENCE

2013- Current **Graduate Instructor | University of Arizona**
Instructor and primary contact for Introduction to Soil Science Laboratories with responsibilities for classroom lecture, laboratory, and four field experiences.

2011- Current **Agromony Program Research Associate | University of Arizona** Consulting with bi-weekly monitoring of agricultural production research sites throughout the Southwest. Data collection/analysis for soil, plant tissue, and water samples concluding in technical report writing, and publication.

2012- 2013 **Graduate Outreach Assistant | Water Resources Research Center | Statewide** presentations of outreach material, development of water educator database, and monitoring the Water Sustainability Program scholarship programs, website, and reporting.

2009 - 2011 **Ecology Research Assistant | Biosphere 2** Deliverables included creating first species list since 2003, as well as collection of samples for specific research projects.

2010 **Governmental Affairs Assistant | Tucson Metropolitan Chamber of Commerce** Examining Nationwide Environmental Impact Statements for technical reports, and regulatory research accessing the rezoning of downtown Tucson.

2006 - 2007 **Special Projects Director | California Association of Student Council |** Coordination, design, and implementation of workshops and training for schools throughout California. Conference size 10-500 persons; 1-2 days.



JESSICA FRAVER

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OBJECTIVE

To obtain a Geographic Information Systems (GIS) Analyst or Project Manager role that will allow me to utilize and expand my project design, data analysis, web mapping and geodatabase management skills.

PROFILE

Project manager and field biologist with over 6 years of training and work experience in GIS, as well as project design, implementation and management. Enthusiastic, dependable, eager to take on challenges and learn new skills.

EMPLOYMENT HIGHLIGHTS

Arizona Land and Water Trust

Tucson, AZ

Project, GIS and Stewardship Manager

08/2009 – Present

- Create maps for strategic planning, land and water transaction projects and events.
- Create and maintain project management databases, including incorporation of GIS data from numerous public and private sources.
- Assist with land transaction due diligence, including title report reviews, water rights research, and the creation and editing of legal documents.
- Write/edit grant applications and track deliverables.
- Project manager responsible for designing and directing priority area GIS analysis projects, including hiring and supervising an intern.
- Project and event supervisor responsible for managing a restoration project, coordinating outreach events, including workshops, forums and guided tours that promote awareness of the economic benefits of open space.
- Stewardship manager tasked with organizing monitoring trips, writing reports and tracking permitted use and amendment requests.

University of Arizona

Tucson, AZ

Graduate Assistant

01/2007 – 06/2009

- Worked with the United States Forest Service to analyze spatial data, produce maps and develop data collection protocols for three simultaneous field projects in Prince William Sound (PWS), Alaska.
- Project leader responsible for designing and compiling spatial and tabular datasets from field surveys and various agency sources into a geodatabase to investigate relationships between human and river otter (*Lontra canadensis*) activity in PWS.
- Processed spatial data to create climate variables for models representing past, present and future distributions of subject plant species.

Point Reyes Bird Observatory Central Valley, CA
Seasonal Field Biologist 04/2004 & 04/2006 – 10/2004 & 08/2006

- Conducted point count and mist netting surveys, area searches, vegetation assessments, monitored songbird nests and mapped songbird territories.

Uaso Ngiro Baboon Project (UNBP) Laikipia District & Nairobi, Kenya
Field Supervisor 02 – 10/2005

- Project manager responsible for designing and implementing a study to investigate the impacts of human settlements on vegetation and baboon ranging behavior, including the collection and analysis of spatial data.
- Trained new employees and supervised daily field operations involving five research assistants tracking and collecting behavioral data on a habituated troop of nearly 80 Olive Baboons (*Papio anubis*) in a remote area of Kenya.
- Organized data and supply transfers to/from the UNBP headquarters in Nairobi.

University of Notre Dame’s Balinese Macaque Project Bali, Indonesia
Project Team Leader 06 – 08/2003

- Led a population survey of Long-Tailed Macaques (*Macaca fascicularis*).
- Collected GPS, ranging behavior, demographic and habitat data.

EDUCATION

University of Arizona *Tucson, AZ* 01/2014 - Present

- **Master of Science** in Geographic Information Systems and Technology
 - Expected graduation: December 2014

University of Arizona *Tucson, AZ* 2007 - 2009

- **Master of Science** in Natural Resources
 - Graduated in December 2009 with a 3.9 GPA
- Earned a **Graduate Certificate** in Geographic Information Science
 - Relevant Coursework: Applied & Advanced GIS, GIS for Natural/Social Sciences, Cartographic Modeling for Natural Resources, Spatial Analysis and Modeling, Computer Cartography Independent Study, Biostatistics
- Awards: School of Natural Resources Tuition Scholarship ~ 2009

Central Washington University *Ellensburg, WA* 1998 - 2001

- **Bachelor of Science in Anthropology**
- **Bachelor of Science in Primate Behavior and Ecology**
- **Graduated Magna Cum Laude with a 3.93 GPA**
- Awards: Undergraduate Research Scholarship ~ 2001; College of the Sciences Research Scholarship ~ 2001; Phi Kappa Phi Undergraduate Scholarship ~ 2000; Laurie B. Domico Anthropology Department Scholarship ~ 1999

M. Gwynn Harlowe

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Email: gharlowe@gmail.com



Summary

I am currently in my last semester at the University of Arizona in the Master's Program in Geographic Information Systems (GIS) Technology. I would like a job that can further develop my skills in GIS.

Education

University of Arizona

Master Geographic Information Systems Technology

Expected graduation 12/2014

Pima Community College

Intro to Geographic Information Systems

Fall 2013

Mapping Concepts

Fall 2013

Strayer University

Bachelor's Science – Computer Information Systems with an emphasis on Computer Networking.
Graduated with Honors, summa cum laude.

June 1998

Experience

Santa Cruz County Arizona

09/2009 to Present

IT Analyst

- Manage the County's Enterprise GIS Databases.
- Create maps and perform analyses as needed by various departments.
- In support of the county Geographic Information System (GIS) I started a GIS Users group that meets monthly and discusses current and future projects.
- I helped with the upgrade of ArcGIS 9.3 to 10.1, through 10.2.2.
- I produce the 911 GIS address accuracy annual study and report as required by the State of Arizona.
- I provide technical support to GIS users as needed.
- I provide technical support to 15 county departments (300 users) each with their own specialty software (theCountyRecorder, PowerProfile/HEI, Sungard IJS, Realware, ArcGIS 10.2.2 etc...) as well Microsoft Office 2007/2010/2013.
- I manage the Countywide Windows Server 2008 Active Directory domain at 5 locations of both wired and wireless network subnets.
- Manage 42 servers including Domain Controllers, DHCP, Windows SQL Database Servers, print servers, file servers and various application servers running either Windows Server 2003 or 2008.
- Manage Exchange Server 2010 R2 SP1 that is integrated with the Cisco Unified Messaging IP Telephone System.
- Manage the backup system using Symantec BackupExec 2010 R2.
- Manage Symantec Endpoint Protection Version 11(antivirus) for disaster recovery.
- Use VMWare vSphere version 5 to manage a 1 cluster, 2 host virtual server system with 16 virtual servers running Windows 2008 R2 Datacenter.
- Assist in the planning and implementation of new systems.
- Recommend software, and hardware purchases for servers, workstations and laptops.
- Utilize MaaS360 system to manage devices such as iPads and smart phones.

Tubac Old World Imports

9/2006 - 9/2009

General Manager/Web Master

- Managed company web site.
- Setup and maintained a web camera used for interactive online sales.
- I evaluated computer needs and advised company owners on the purchase of computer equipment.
- Supervised sales staff.

The Honors College, University of Arizona

8/2004 - 9/2006

Support Systems Analyst

- Maintained 2 Windows 2003 Servers, MS Exchange 2003 and MS SQL Server 2000 and 25 PCs running Windows XP Pro
- Provided desktop support for 10-12 staff members and 3000 Honor Students.
- Assisted the Dean in developing the IT plan. Managed the network data backup system.
- Developed and managed the Honors College web site.
- Provided the Dean with statistical data for presentations, publications, planning and evaluation, analyze the data with SPSS and produced reports.
- Created and maintained web based surveys to gather statistical data from current Honors students.
- Identified, reviewed and recommended software and/or equipment to meet staff and student needs.

Digital Brushstrokes, LLC

10/2002 - 7/2004

Website/Database Development - Owner/Partner

- Developed database driven web sites for a variety of businesses.
- Database design, development, testing, documentation
- Website updates.
- Digital photography for websites or print media.
- Hands-on computer training and trouble shooting for clients

U.S. Border Patrol, Immigration and Naturalization Service (INS),

6/2000 - 10/2002

Nogales Border Patrol Station

Computer Specialist, 334

- Novell 4.1.1 Server Network, 3 servers
- 600 end-users
- 300 Windows 2000 Pro Workstations at 3 sites
- Organized training
- Desktop Support
- Provided end-user support for the IDENT and ENFORCE systems.
- Manage backups ArcServe Backup system at three sites within Tucson Sector
- Developed and implemented INS compliant File Server Backup Standard
- Operating Procedures for Tucson Sector.
- Managed cc:Mail email system at three sites.

Received a Productivity Improvement Award - February 2001 for streamlining the reporting procedures and simplifying information input that drastically improved the computer generated reports for the Tucson Sector Mexican Liaison Program

Getronics/Wang Government Services, Inc. 9/1998 - 6/2000
Systems Administrator

Raytheon Systems Company (Formerly Hughes Aircraft) 12/1997 - 8/1998
Management Systems Analyst/Network Engineer

Strayer University 1/1997 - 9/1997
Computer Lab Assistant/Network Administrator

Military Experience

United States Army 3/1982 - 3/1986

Sergeant, E5 (Promoted ahead of peers). MOS: 98C - Electronic Warfare Signals Intelligence Analyst
Collect, record, analyze, and disseminate tactical, political, strategic, or technical intelligence information to facilitate development of military strategies. Maintained a Top Secret Clearance, TSSI. Recipient of Army Commendation Medal and Army Achievement Medal

Additional Training

GIS

ESRI: Introduction to the Hazus-MH 2.0 Flood Model; Basics of Python; Building Models for GIS Analysis Using ArcGIS; Referencing Data to Real-World Locations Using ArcGIS 10.1; ArcGIS I: Introduction to GIS; ArcGIS II: Essential Workflows; ArcGIS III: Performing Analysis; Finding Geographic Data in ArcGIS; Solving Spatial Problems Using ArcGIS; Getting Started with GIS (for ArcGIS 10.1)

Emergency Management

FEMA Emergency Management Institute (EMI), IS-100b Introduction to Incident Command System – 11/2013

FEMA EMI, IS-700.A: National Incident Management System (NIMS) An Introduction – 12/2013

Information Technology

Configuring, Managing and Troubleshooting Microsoft Exchange Server 2010 – 08/2010

Designing and Deploying Messaging Solutions with Microsoft Exchange Server 2010 – 08/2010

Supporting Windows Server 2003 Network, University of Arizona (UA) Center for Computer & Professional Education - 2006

Supporting Windows Server 2003 Environment, UA Center for Computer & Professional Education - 2006

Supporting Windows XP, UA Center for Computer & Professional Education - 2005

MySQL/PHP, University of Arizona-Extended University - 2004

HTML, University of Arizona-Extended University - 2002

HTML, University of Arizona-Extended University - 2002

Immigration and Naturalization Service Local Area Network (LAN) Administration, Advanced - 1998

Implementing Microsoft Windows 2000 Professional and Server - 1998

PANKAJ JAMWAL

250 N Arcadia Avenue, # 806, Tucson, AZ. 520-576-0049,
panjamwal@gmail.com, jamwalsp28@yahoo.co.in



SUMMARY

- Qualifications are **Masters of Science in GIST**, Graduate Certificate in GIS and Master of Philosophy in Environment Management.
- Work experience in the field of GIS with special emphasis on Spatial analysis, Model Builder, Batch processing, Cartographic modeling, ArcGIS Server, ArcGIS Viewer for Flex & Silverlight, ArcGIS online, Lidar point classification, Geodatabase development, Cartography, Aerial photographic analysis, CAD (AutoCAD), Natural Resource Management.
- Research experience in Ecology, Wildlife Management, and Natural Resource Management
- Currently working as **GIS Technician/Analyst** with **US Geological Survey (USGS), Tucson Arizona.**

EDUCATION

University of Arizona, Tucson AZ

Master of Science in Geographic Information Systems Technology (MS GIST), Dec. 2014

University of Arizona, Tucson AZ

Graduate Certificate in Geographic Information Systems (GIS), May 2013

Vikram University, Ujjain, India

Master of Philosophy- Environment Management, Biology Minor, May 2003

Devi Ahilaya Vishavvidhalaya Indore, India

Master of Science- Botany, Biology, Ecology Minor, April 2002

EXPERIENCE

GIS Technician/Analyst [November 2013 – Present]

U.S. Geological Survey (USGS), Tucson, Arizona

- Spatial analysis of vertebrate species models
- Develop a Geodatabase for size of vertebrate species distribution in Arizona
- Determination of the size and distribution of vertebrate species in Arizona
- Development of models/tools in model builder for spatial analysis
- Examine map distribution of habitat impact categories for select species
- Field surveys for the assessment of the endangered Pima pineapple cactus in Buenos Aires National Wildlife Refuge (BANWR)

Approach: Raster analysis, Creating models and tools in Model builder, Batch processing, Cartographic modeling, Spatial analysis, Editing, Creating Geodatabases & maps etc.

GIS Technician [January 2013 – October 2013]

U.S. Geological Survey (USGS), Tucson, Arizona

- Vegetation Analysis of Managed Riparian Habitats in the Arizona Borderlands Area using GIS & Remote Sensing techniques
- Mapping anthropogenic disturbances and estimating soil erosion potential on the Barry M. Goldwater Range-West and flat-tailed horned lizard management area
- Mapping high disturbed & low disturbed areas on the Barry M. Goldwater Range-West.
- Incorporate use of remotely sensed data, tools, and geospatial application to map change through time.

Researcher- GIS & Endangered Species [March 2012 - November 2013]

Center for Biological Diversity, Tucson, Arizona (www.biologicaldiversity.org/)

- Digitize & create critical habitat maps of Endangered and threatened species
- Study the trends of Endangered and threatened plant and animal species
- Develop detailed research reports, Create graphs & database of endangered species

Subject Matter Expert-Biology and Environment [July 2008 - December 2011]

JIL Information Technology Ltd. New Delhi, India (www.jilit.co.in/)

- Creation of educational course content for schools, college and universities
- Development of E- Learning Educational modules with the integration of Multimedia techniques for Education through satellite (EDUSAT)

Senior Trainer- Biology and Environment Science [January 2006- June 2008]

Educomp Solutions Pvt. Ltd. New Delhi, India (www.educomp.com/)

- Conducted trainings for lecturers, teachers and students about the integration of computer technology (ICT) in the existing curriculum to enhance the teaching learning process
- Promotion and implementation of “Project Based Learning” and inculcation of problem solving skills among students and teachers & Curriculum development

Research Associate –Biodiversity/Environment/GIS [October 2003- January 2006]

Institute of Himalayan Bioresource Technology, CSIR, H.P, India (ihbt.res.in/)

- Develop database of plant resources in the western Himalaya
- Conducted ecological studies/ vegetation sampling for identification and monitoring of soil and plant resources of Western Himalaya
- Digitization & creation of data/ maps
- Conducted ecological and community based surveys, lab experiments, soil analysis and water analysis

Lecturer –Biology and Environment Science (Guest Faculty) [July 2003-Nov.2004]

W.R.S. Govt. College Dehri, H.P, India

- Taught Botany and Environment management to graduate students

SKILLS/COMPETENCIES

- ArcGIS (ESRI ArcGIS Desktop 10.2), Remote Sensing (Erdas Imagine), CAD (AutoCAD)
- ArcGIS Server, ArcGIS Viewer for Flex & Silverlight, ArcGIS online.
- Lidar point classification, Editing LAS point cloud data.
- Editing, Mapping, Spatial Analysis, Aerial photographic analysis
- Cartography, Cartographic Modeling, Geo-referencing, Designing Geodatabases, Model Builder, Research Skills, Ecological sampling, Ethnobotanical studies
- Computer skills: MS office: Ms Word, Excel, MS Power point, MS Access, MS Publisher.

PUBLICATIONS

- Uniyal, S. K., Singh, K. N., **Jamwal, P.**, and Lal, B. (2006). Traditional Use of Medicinal Plants Among the Tribal Communities of Chhota Bhangal, Western Himalaya. **Journal of Ethnobiology and Ethnomedicine.**
- **Jamwal, P.**, Singh, K. N., Uniyal, S. K., and Lal, B. (2008). Folk biomedicines and traditional practices to cure various veterinary diseases in Kangra district of Himachal Pradesh, Western Himalaya. **Biodiversity Environment & Sustainability.**
- Singh, K. N., **Jamwal, P.**, and Lal, B. (2008). Traditional uses and distribution of plants in cold desert of trans-Himalaya. **Biodiversity Environment & Sustainability.** Sanjay Kr. Uniyal & Varun Sharma & **Pankaj Jamwal** (2011). Folk Medicinal Practices in Kangra District of Himachal Pradesh, Western Himalaya. **Human Ecology.**

MICHAEL J. LEVENGOOD

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Email: mjlevengood@gmail.com

Telephone: (404)-234-6845 (mobile)



EDUCATION

Master of Science in Geographic Information Systems Technology (MSGIST)

University of Arizona, *anticipated December 2014*

Current GPA: 4.0

Master of City and Regional Planning, Specialization in Economic Development

University of North Carolina at Chapel Hill, August 2011

Overall GPA: 3.76 (using High Pass=4, Pass=3 scale)

Bachelor of Arts in Geography and Economics

University of Georgia, *summa cum laude*, May 2007

Overall GPA: 3.94 / 4.0

SKILLS

Computer Skills: ArcGIS; ERDAS; Microsoft Office; Stata, IMPLAN

Language Skills: Native English speaker; Near-native fluency in Spanish, Proficient in Portuguese

EXPERIENCE

City of Tucson, Tucson, AZ

GIS/Planning Intern, July 2014—December 2014

- Maintain spatial databases on enterprise SQL Servers and create new GIS data sets
- Produce and update maps according to department needs
- Develop and deliver Power Point presentations for public meetings
- Provide writing support for rezoning cases

University of Arizona, Tucson, AZ

Adjunct Spanish Instructor, Department of Spanish and Portuguese, August 2013—December 2014

- Fall 2014: teach four sections of SPAN 102 (Second-semester Spanish)
- Spring 2014: taught three sections of SPAN 201 (Intermediate Spanish) and one section of SPAN 206 (Accelerated Intermediate Spanish)
- Fall 2013: taught three sections of SPAN 102 (Second-semester Spanish)

Contract Writer/Editor, Center for Health Outcomes and PharmacoEconomic Research, August 2013--present

- Provide writing and editing assistance to faculty, students, and staff submitting academic manuscripts for publication

Varsity Tutors, Tucson, AZ

Tutor, July 2012- present

- Tutor high-school and college students in person and online in the subject areas of SAT, ACT, GRE, GMAT, LSAT, Economics, Spanish, and Writing

Freelance Editor and Researcher, Tucson, AZ, August 2011-present

- Edit and proofread academic articles, book chapters, and grant proposals and provide research assistance for professors at universities, including the University of North Carolina at Chapel Hill and New York University

Berlitz Corporation, Tucson, AZ

English and Spanish Instructor, December 2011-December 2013

- Taught individual and group English and Spanish classes to local professionals and their families

Department of City and Regional Planning, University of North Carolina, Chapel Hill, NC

Graduate Teaching/Research Assistant, August 2009 – December 2010

- Assisted Dr. Yan Song with preparation of Geographic Information Systems (GIS) text; conducted labs and evaluated assignments for an Advanced GIS graduate course
- Assisted Dr. Nichola Lowe and Dr. Maryann Feldman with editing and proofreading academic articles, book chapters, and grant applications

RTI International

Intern, July 2010 – September 2010

- Assisted Senior Economic Development Analyst with quantitative data gathering and analysis and provided writing and editing support for a consulting project

Institute for International Education / Universidad Austral de Chile, Valdivia, Chile

Fulbright Scholar, English Teaching Assistant, March 2008 – January 2009

- Taught language classes to university students studying English pedagogy; held roundtable discussions; gave presentations on American cultural topics; assisted other professors with lesson planning and evaluation

Gwinnett Chamber of Commerce, Duluth, GA

Assistant Project Manager, Economic Development Department, August 2007-January 2008

- Provided research support to the Partnership Gwinnett economic development initiative by creating and managing database of employers in Gwinnett County; composing place marketing materials; and tracking media coverage

Urban Land Institute, Washington, DC

Information Department Intern, June-August, 2007

- Researched projects and issues involving commercial development and maintained information database for upcoming ULI publication on retail development

HONORS & AWARDS

- Fulbright Scholarship (English Teaching Assistantship) to Chile
- University of Georgia Foundation Fellowship
- Phi Beta Kappa Honor Society
- Phi Kappa Phi Honor Society
- Blue Key Honor Society
- Harry S. Truman Scholarship Finalist, 2006
- NCGE/AAG Award – Most Outstanding Graduating Geography Student at UGA

Manny Lizarraga

4375 W. Camino de Venias Tucson AZ, 85745
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mannylizarraga@gmail.com

EDUCATION

Master of Science in Geographic Information Systems Technology
University of Arizona, Tucson Arizona (*expected graduation date December 2014*).

Bachelor of Science in Geography and Regional Development
Minor in Business Administration with Emphasis in Geographic Information Systems, Management Information Systems and Field Studies
University of Arizona, Tucson Arizona (2006)

PROFESSIONAL EXPERIENCE

GEOINT Analyst (Geospatial Intelligence)
National Geospatial-Intelligence Agency, Washington, DC United States
05/2008 to Present

Data Creation Duties (including, but not limited to):

- Perform three dimensional feature extraction and stereo elevation extraction.
- Position, attribute, symbolize, format imagery and geospatial information.
- Create, edit and attribute geospatial data using numerous GIS software programs.
- Create metadata to federal standards.
- Create imagery mosaics, perform orthorectification and georeferencing.

Database Management, Preparation and Manipulation Duties (including, but not limited to):

- Design, develop, populate, and edit ESRI Geodatabases.
- Assist in the implementation and maintenance of non-GIS and GIS enterprise level databases.
- Ensure the integrity of cartographic, imagery, and raster databases.
- Ensure the quality, accuracy, and currency of geospatial information and any subsequently derived products.
- Edit records, reformat data, perform file maintenance, and implement database strategies.
- Create file structures, naming conventions, business processes, and develop other standards related to the maintenance of large-scale geospatial resources.

Data Exploitation and Production Duties (including, but not limited to):

- Research, assess, integrate, manipulate, exploit, and analyze digital imagery and geospatial information.
- Use remote sensing, spatial analysis, social and physical sciences in order to characterize events, discover relationships, and infer conclusions.
- Effectively communicate analysis results, their meanings and significances.
- Perform precision mensuration and create three-dimensional scene visualizations.
- Perform simple and complex queries on multivariate GIS databases, based on location attributes and present the results in charts, tables and maps.

- Build relationships between tables that link spatial and non-spatial databases to conduct complex queries, which identify interrelationships among data.
- Quantify and summarize data, using appropriate statistical methods to extract meaningful and defensible information.
- Conduct GIS data needs assessments and develop project objectives.
- Implement the use of cartography, geography, geospatial and imagery sciences.

Associate Town Planner
Town of Oro Valley Planning and Zoning Department, Oro Valley, AZ United States
04/2007 to 05/2008
Supervisor: Sarah More (520) 822-8853

Duties:

- Enforced the Town Zoning Code and Design Guidelines throughout municipality.
- Reviewed Development Plans and Architecture Designs to maintain high standards for prospective developers, while keeping existing developments to standard.
- Performed research that led to the amendment of current Town Codes and Bylaws.
- Served as liaison between applicants and various decision-making boards, councils, committees.
- Utilized excellent verbal and written skills to update staff on projects, as well as write executive reports.

Property Development and Management Intern
Peach Properties, Tucson, AZ United States
05/2004 - 05/2005
Supervisor: Patricia Schwabe (520) 798-3331

Duties:

- Supported real estate sales team by performing comparative market analysis.
- Marketed commercial properties to prospective investors.
- Developed GIS database for properties under management.

COMPUTER SKILLS & LANGUAGES

- Commercial Software: Microsoft Windows, Microsoft Office Suite, AutoCAD, SketchUp, Adobe Creative Suite, and i2 Analyst's Notebook.
- GIS Software: ArcGIS, Socet Set, Socet GXP, RemoteView, ERDAS Imagine, FalconView, ENVI, IDRISI, MapInfo, GRASS GIS, QGIS, Google Earth, and numerous government off the shelf software (GOTS).
- Statistical Software: IBM, SPSS, and R.
- Special Network Accesses: Common Work Environment (CWE, ICE) and Special Operations Intelligence System (SOIS).
- Experience with Python, VBA and Java programming languages.
- Experience with Web Mapping using HTML, CSS, and ArcGIS API for JavaScript, ArcGIS for Server, ArcGIS Viewer for Flex and ArcGIS Viewer for Silverlight.
- Proficient in English and Spanish.

Miscellaneous

- Expertise in all-source (MULTI-INT) fusion including full-spectrum geospatial intelligence (GEOINT), open-source intelligence (OSINT), signals intelligence (SIGINT), human intelligence (HUMINT), as well as measurement and signature intelligence (MASINT).
- Additional expertise in operations involving full-motion video (FMV), Intelligence, Surveillance, and Reconnaissance (ISR) and Tasking, Processing, Exploitation, and Dissemination (TPED).
- Advanced analytic capabilities adaptable to science, statistical, and business fields.
- Great individual supervised and team worker.
- Recipient of numerous training certifications from major institutions including the National Geospatial Intelligence College, Office of the Director of National Intelligence, and State Department's Foreign Service Institute.
- Recipient of numerous awards including Global War on Terrorism Award (five times), and the prestigious National Intelligence Meritorious Unit Citation.
- Experience with numerous law enforcement and intelligence agencies.
- Active Top Secret/Sensitive Compartmented Information Clearance, Active Full Scope Polygraph, and Counterintelligence Polygraph.
- Overseas deployment, operations and data collection experience.
- Alpha Chi National Honor Society Member.
- University of Arizona Wildcat Rugby Team recipient of the William M. Clements Student Athlete Achievement Award (three times, 2003-2005).

References

- Patrick Hainey
Cell: (571) 438-0173
- Victoria Realmuto
Cell: (571) 643-3559

Brett Stauffer

1205 E Greenlee Road #3

Tucson, Arizona 85719

(406)-531-4556

stauffer.brett@gmail.com

EDUCATION

University of Arizona MSGIST Expected graduation December 2014

Master in Geographic Information Systems

Masters Project: "Is there a correlation with the location of Sahara mustard and vegetation communities as well as environmental variables at the Barry M. Goldwater Range in Southwestern Arizona."

University of Montana 2002-2006. Graduated Dec. 2006

Majors: Wildlife Biology (College of Forestry); History (College of Liberal Arts)

Freshman Year: Dean's Honors List

Laboratory Courses: Mammalogy, Ornithology, Chemistry, Freshwater Ecology, Wildlife Techniques

GIS Skills: Practice with using ArcMap, ArcCatalog, ERDAS, PowerPoint, Microsoft Word, Python programming

EMPLOYMENT & FIELD EXPERIENCE

University of Arizona. (May 2014-December 2014). Internship with Dr. Jim Malusa in Biological Sciences using Geographic Information Systems to correlate an invasive species, Sahara mustard (*Brassica tournifortii*), and vegetation as well as environmental variables at Barry M. Goldwater west in southwestern Arizona.

Pima Air and Space Museum. (September 2013- present) I am a volunteer docent at the museum. I talk with the public and help to give them information about the airplanes on display.

Total Tutoring. (October 2010-April 2012) Helped tutor first thru sixth graders in reading and math. Relevant experience in creating lesson plans and implementing a course of action for each student.

West Wendover Elementary School and West Wendover Jr/High School, West Wendover, Nevada. (September 2010- May 2013). I worked as a substitute teacher following lesson plans, teaching lessons and keeping kids under control. On days off helped students improve their reading and writing skills.

Alta Ski Resort. (November 2009-April 2010). I worked as a lift attendant during the winter season. Job duties included starting lifts in the morning, running lifts, customer service.

Santa Barbara Zoo. (May 2008-July 24, 2008). California condor nesting technician. Relevant experience with watching nests, tracking condors and working with data.

Point Reyes Bird Observatory. (March 17, 2008-May 2, 2008). Banding Intern. Used mist nets to capture songbirds. Relevant experience with extraction, data collection, and education.

Ventana Wildlife Society: Condor Species Recovery Intern, Big Sur, California, (March 5, 2007-March 5, 2008) Paid Internship

- Used Telemetry equipment to track California condors: Omni antennae, Yagi Antennae, ATS receiver, Com Spec, and Telonics. Triangulation of dropped radio tags or dead birds.
- Intern project- analyzed cliff nest data using Microsoft Excel and gave presentation at semi-annual conference
- Observation (and data collection) of birds at feeding sites, flying, perched, or in our flight pen.

Ventana Wildlife Society- Monarch Butterfly tagging. November 8, 2007 and January 12, 2008. Handled butterflies and recorded data.

Professional References:

Dr. Chris Lukinbeal
Director, University of Arizona GIST program
E-mail: chris.lukinbeal@arizona.edu
TEL: 520-621-6181

Dr. Iris Patten
Associate Director, GIST
E-mail: ipatten@email.arizona.edu
TEL: 520-626-7004

Dr. Jim Malusa
Professor and Researcher University of Arizona
E-mail: Malusa@email.arizona.edu
TEL: 520-621-6424

Jamie L. Velkoverh

Jamie.Velkoverh@gmail.com • 920-857-0291



EDUCATION

M.S. Geographic Information Systems Technology

Expected Dec. 2014

University of Arizona, Tucson, AZ

Thesis: Modeling solar potential for the state of Arizona and analyzing conflict between solar development and the natural environment in Pima County, Arizona.

M.S. Environmental Engineering

August 2009

University of Minnesota-Institute of Technology, Minneapolis, MN

Thesis: The role of calcium in sorption of the herbicide glyphosate to agricultural soil, and implications for subsurface transport.

B.S. Chemistry

May 2006

St. Norbert College, De Pere, WI

EXPERIENCE

University of Arizona Tucson, AZ

January 2014-Present

- Developed web applications to use geospatial technologies to illustrate complex modeling and analysis for environmental solutions.
- Using complex suitability analysis, produced the renewable energy potential for in the state of Arizona. An ArcOnline webmap application was created to illustrate the low, moderate and high opportunity for large scale and small scale solar development.
Development of the mobile application for the University of Arizona's Green Walking Tour.
Responsible for establishing the methodology for determining sustainability factors for all sites on the Tour.
- Proficient with geospatial analysis and technical problem solving skills.

Environmental Systems Research Institute (ESRI)

July 2014

- International user conference student assistant
- Selected as one of 50 conference assistants from a global pool of applicants for the ESRI International User Conference in San Diego, CA.

ENVIRON International Corporation Phoenix, AZ

August 2011-May 2013

- Performed Phase I Environmental Site Assessment site visit and completed report.
- Prepared Safety Data Sheets in accordance with EU and Globally Harmonized Standards.
- Provided litigation support through research, analysis and presentation of technical data for multiple projects involving environmental contamination and human health effects.
- Performed comprehensive stormwater and facility inspection of a mine site.
- Prepared diagram for client to assist with submitting a Significant New Use Notice (SNUN) to the EPA.
- Assisted with research and document preparation for TSCA audits, submission of GRAS notices and Preliminary Manufacture Notifications (PMNs).
- Calculated construction and operational emissions for proposed construction projects in California using the California Emissions Estimator Model (CalEEMod).
- Modeled human exposure and health risks associated with air emissions from over 50 oil refineries in the United States using Human Exposure Model-3 (HEM-3).
- Utilized AERMOD in air pollutant emission dispersion modeling.
- Provided technical assistance in review of data for a Comprehensive Emission Inventory Report (CEIR).
- Performed field work including soil sampling, indoor air sampling, stormwater sampling and low-flow groundwater sampling.

United States Geological Survey Mounds View, MN

October 2009-November 2010

- Developed Enzyme-Linked Immunosorbent Assay method for detection of endocrine disruptors in environmental samples.
- Interpreted and analyzed data using computer software
- Provided technical support for the identification of all currently active and inactive pesticide ingredients.
- Reviewed manuscript submissions for publication in peer reviewed journals.

Graduate Research and Teaching Assistant University of Minnesota

January 2007-September 2009

- Utilized, maintained and designed experiments using analytical laboratory instruments.
- Conducted experiments using a variety of wet chemistry techniques.
- Conducted field work (groundwater sampling, well installation, stream temperature monitoring).
- Maintained laboratories, websites and graded courses on Water and Wastewater Treatment and Experimental Methods in Environmental Engineering.

Engineers Without Borders Ghana, West Africa

July 2007

- Installed a solar-powered well pump, solar array, water tower, and piping distribution system.
- Provided clean drinking water for 1000 people.
- Project success due to sound decision making, improvisation in the field and strong team dynamics

Engineers Without Borders Guatemala, Central America

January 2007

- Implemented a water distribution system for educational and ecological park.
- Installed submersible pump to overcome 130 feet of vertical head and losses along 200 meter distribution line to fill 9000 gallon water tank.
- Developed skills in engineering design, teamwork and fundraising.

STUDY ABROAD*July 2005-December 2005*

Macquarie University Sydney, Australia

- Atmospheric chemistry research internship—Researched the use of an NO_x detection and quantification system to incorporate into a final year undergraduate teaching program, and considered the pedagogy of laboratory-based teaching and learning.

Research Experience for Undergraduates (NSF-REU) Fellow*May 2005-July 2005*

University of Minnesota Dept. of Geology and Geophysics

PROFESSIONAL MEMBERSHIPS

Water Environment Federation (WEF), Air and Waste Management Association (AWMA), American Water Works Association (AWWA), American Society of Civil Engineers (ASCE), Society of Women Engineers (SWE) (2007-present)

Engineers Without Borders (EWB)-501(c)3 non-profit student group, Administrator (2007-2008)

EWB project team member: group winner of \$25,000 Keen® Stand Award for sustainable design (2008)

St. Norbert College Distinguished Trustee Scholarship recipient (2002-2006)

Peter P. Pritzel scholarship in Chemistry, St. Norbert College (2004-2006)

University of Minnesota Civil Engineering department Health and Wellness Advocate (2009-2010)

NATHAN R. WASSERMAN
3320 E Popinac Loop Tucson, AZ 85716
(928) 713-9226 nrw1@email.arizona.edu



EDUCATION

Master of Science in Geographic Information Systems Technology (MSGIST)

Project Title: Urban Fire: An analysis of brushfires in Tucson, Arizona 2000-2013

The University of Arizona, Tucson, AZ

Expected graduation December 2014

Bachelor of Science in Forestry

Undergraduate Certificate in Wildland Fire Management and Ecology

Northern Arizona University, Flagstaff, AZ

Graduated May 2012

GIS Related Software Used:

- Fire Modeling: FlamMap, FARSITE, BehavePlus, NEXUS
- GIS: ArcMap 10.0, 10.1
- GPS to GIS software: GarminDNR
- Other: LiDAR, Projections, Datums

Relevant Coursework

- Fire Modeling and Monitoring; Fire Ecology; Forest Ecosystem Management; Forest Ecosystem Planning

WORK EXPERIENCE

WILDLAND FIREFIGHTER

FIVE SEASONS:

Stray Horse Fire Crew, Clifton RD, Apache-Sitgreaves National Forest (2012 and 2013)

Type 3 Engine (GVWR 26,001 lbs+), South Rim, Grand Canyon National Park (2011)

Williams Fuels Crew, Williams RD, Kaibab National Forest (2009 and 2010)

SUPPRESSION AND OPERATIONS

Firefighter Type 1 (FFT1) and Incident Commander Type 5 (ICT5) qualified

- Performed a range of wildland firefighting techniques, and trainee supervision of the Stray Horse Fire Crew (four crewmembers) in the suppression and management of wildland fires, under a range of atmospheric and topographical conditions, in the safest and most collaborative manner for both the firefighters and public.

ECOLOGICAL RESTORATION AND FIRE ECOLOGY

Fire Effects Monitor (FEMO) qualified

- Extensive thinning experience in Arizona and Montana (Pine, Juniper, Fir)
- Faller A, with extensive experience using Stihl MS 361, MS 440, MS 460
- BAER hazard tree removal in New Mexico: pine, fir, Douglas-fir, 20-30in+ dbh
- Pile burning projects Kaibab NF; Grand Canyon Village Wildland/Urban Interface
- Collected fuels moisture data using Computrac and oven-drying methods
- Collected spatial data using a Garmin GPS, uploaded it using GarminDNR into ArcGIS 10.0, and manipulated that data to produce a map product.

SHUTTLE BUS DRIVER

Qualification: Arizona Class B CDL with Passenger and Tank Vehicles endorsements

The University of Arizona, Parking and Transportation Services (January 2013-Present)

- On-call driver
- Proficient with all shuttle routes on campus
- Transport students in a safe manner across the UA campus
- Perform pre-trip and post-trip inspections depending on shift times

Northern Arizona University, Shuttle Services (January 2010 to May 2012)

- Helped transport 52,000 students weekly across NAU campus
- Ensured safe and timely delivery of all passengers
- Operated Glaval E-450, Glaval F-650, Thomas HDX (38' and 41'), Blue Bird
- Performed pre-trip and post-trip inspections before and after every shift
- Fueled and parked buses after driving shifts
- Learned basic care of Powerstroke, Cummins, and Caterpillar diesel engines

REFERENCES:

1. DR. IRIS PATTEN, Associate Director, MSGIST Program, The University of Arizona
Phone: (520) 626 – 7004
2. ROD BARSTAAD, Assistant Program Coordinator, Cat Tran, The University of Arizona
Phone: (520) 882 – 0518
3. JOE NAMES, Fuels Technician, Clifton Ranger District, Apache-Sitgreaves NF
Phone: (928) 687 – 8600
4. NATE SUIDA, Foreman, Stray Horse Fire Crew, Clifton Ranger District, Apache-Sitgreaves NF
Phone: (928) 687 – 8600
5. JUDY MANOR, Program Coordinator, Shuttle Services, Northern Arizona University
Phone: (928) 523 – 5031

