

Matt Stelmach MS

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I have a strong commitment to lifelong learning. The focus of my course work through the UW MGIS program has been on database design, statistical analysis, and programming in Python. I have continued to pursue my programming education and it has proven to be one of the most useful skills learned from the program. Examples include: building open source geoprocessing tools, random point generation standalone software, web scraping for social media and real estate data, run time monitoring software for acoustic monitors, and software to utilize the R circular statistics package for the creation of wind turbine search areas based on wind speed and direction. If I learned one thing well it is that I should not expect to have the skills to solve every problem, but I am capable of developing the knowledge needed to solve any problem in my domains of GIS, Data Analysis, Database Development and Programming.

Education:

M.S., Geographic Information Systems: Sustainability Management
University of Washington
Seattle WA
GPA 4.0,
Graduation: August 2016

B.S., Biology: Ecology, Evolution, and Organismal Biology
Western Washington University
Bellingham WA
Graduation: July 2007

Data Management and Analysis Skills:

- Programming in Python, R, Visual Basic, and SQL, with introductions to Visual Basic, Java, and JavaScript
- Geospatial analysis with QGIS, ArcGIS, and GPS data collection systems
- PostgreSQL and ArcGIS Server database development, design, implementation and management
- Web Hosting with Amazon Web Services
- Version control software such as GIT, and Mercurial
- MS Office suite including MS Access Database development, design, implementation and management

Community Involvement:

- Founder of the Climbers Association of Maui
- 'Ohia Legacy Initiative Vice President Board of Directors

Work History:

Habitat Conservation Plan Manager: July 2014-Current

Supervisor: Mitch Craig Mcraig@terraform.com 808-633-3723
Address: 3000 Honoapiilani Hwy.
Haleiwa HI 96793

Responsibilities: Oversee the implementation of the Kawaiiloa Wind Farm and Kaheawa Wind Farm I and II Habitat Conservation Plans with annual budgets up to \$750,000. Responsibilities including: Downed wildlife monitoring, Oversee the Seabird Restoration program at Makamaka'ole, Searcher Efficiency Trials, Carcass Removal monitoring, Feral Animal Control program design and implementation, Database design and management, Data Analysis, Reporting, Safety, Scheduling, Purchasing and Logistics.

Environmental Field Coordinator, Auwahi Wind: Aug 2013-July 2014

Supervisor: Marie VanZandt Mvanzandt@auwahiwind.com 808-495-5234
Address: 20100 Pi'ilani Highway
Kula HI 96790

Responsibilities: Monitor for EIS Compliance, Implement restoration, Lead Preadator control, Planning and Reporting, Data Management, SOP writing and implementation

Field Coordinator, The Nature Conservancy: Sept. 2012-Aug 2013

Address: 81 Makawao Ave
Makawao HI 96768

Responsibilities: Arrange and supervise field actions, Implement the Ungulate control actions including the maintenance of the hunting dog program. Build and facilitate relationships with partner agencies, Assist with volunteer and weed control actions. Collect, verify, and organize data.

Natural Resource Management Technician, Oahu Army Natural Resource Program: Jan 2012- Aug 2012

Supervisor: Mike Walker MJWalker@hawaii.edu 808-656-8341

Supervisor: Kala Chauncey-Asing kakuhihewa@gmail.com 808-960-1801

Address: Building 1595
Schofield Barracks HI 96857

Responsibilities: Implementing field work (e.g. monitoring, surveying, fencing, etc.); assisting in scheduling, planning, logistics, and documenting day-to-day field work; recording and analyzing field data using computer aided programs. Team Ungulate Manager: Data and record management, planning, and removal, Small engine maintenance

Biological Science Technician, US Fish and Wildlife Service Invasive Species Strike Team: Feb 2009-Dec 2011

Supervisor: Cindy Rehkemper Cindy_Rehkemper@fws.gov 808-927-5035

Supervisor: Jason Hanley Jason_Hanley@fws.gov 808-271-2743

Address: 300 Ala Moana Blvd 5-231
Honolulu HI 96850

Responsibilities: Native plant propagation; Invasive species removal including development, testing, Section 7 compliance and implementation of new protocols; Seabird, Shorebird, Waterfowl, and Passerine surveys, monitoring, necropsy, banding and bleeding; Ant monitoring; Monk Seal monitoring, necropsy and restraint; Green Sea turtle nest monitoring; Logistic planning and purchasing; Grant writing; Hiring, Management, and Training of volunteers; Medical Training for Staff, Safety evaluation and consultation; Camp maintenance and upkeep; Data management and analysis; GIS analysis; Intra- and Interagency consulting; and IPM development and implementation. Interview with Papahānaumokuākea.gov

Ecological Entomology Assistant, USGS Entomology (Ecology/Food Web): Jun 2008-Dec 2008, Contract Hire in Feb 2011

Supervisor: Robert Peck Rpeck@usgs.gov 808-985-6125

Address: PIERC Kilauea Field Station
P.O. Box 44, Bldg. 344
Hawaii National Park, HI 96718

Responsibilities: Develop and implement a new method of sampling insects in the canopy, Set and maintain, and collect canopy bark traps, and malaise traps, Analyze samples, Arthropod identification, Data management and analysis, Development of a safe tree climbing plan including: instruction, monitoring, and rescue, Lead and trained interns. Project mapping with GIS analysis, Mapping the distribution of invasive ants within Hawaii Volcanoes National Park, Field sampling and GIS analysis. Plant and Bird Identification as a part of food web ecology

USGS Internship, Entomology (Ecology/Food web): September 2007-May 2008

Supervisor: Robert Peck RPeck@usgs.gov 808-985-6125

Address: PIERC Kilauea Field Station
P.O. Box 44, Bldg. 344
Hawaii National Park, HI 96718

Responsibilities: Insect Collection, Pinning, Spreading, and Pointing, Identification of Parasitoids and Ants to species and general Identification, Caterpillar rearing, Use of Dichotomous Keys, Trap Set up, maintenance and modifications, Pesticide application, Data entry, Development of methods to modify bark trapping to suit Hawaiian flora and climate, Field work preparation and planning, Plant Identification and Sampling

Field Assistant, Manomet Center for Conservation Sciences: June 2007-Sept 2007

Supervisor: Andy Whitman AWhitman@manomet.org 207-721-9947

Address: Manomet Center for Conservation Sciences
14 Maine Street, Suite 305
Brunswick, ME 04011 USA
phone: (207) 721-9040 · fax: (207) 721-9144

Responsibilities: Vegetation surveys (Line Intersect Survey, Perpendicular Distance Survey, Standard, and Translational), Plant Identification, Dichotomous Keys, GPS data collection and navigation

Additional References:

Suzanne Davies Withers	Associate Professor, UW Geography	SWithers@uw.edu	206-616-9064
Jimmy Breeden	SWCA Avian Biologist	JBreeden@SWCA.com	808-492-6573
JC Watson	HISC Planner	JCWatson@ntbg.org	808-351-0607

Technical Skills:

- 11 years of Technical Rope work including Tree Climbing experience (Rigging, Hauling, Climbing, Self-Belay, and On-rope Rescue), and Technical Rock Climbing Experience
- 14 years of Small Watercraft use in the Pacific, Puget Sound, as well as the Lakes and Rivers of the Pacific Northwest
- ATV use
- Water quality assessment
- Soil sampling
- Machine/engine maintenance

Certifications:

- NRA Firearms Safety Certified
- Chainsaw Safety certified through Arbor Global and S-212 Chainsaw Safety and Felling Certified
- IAT Helicopter Safety Certified
- US Fish and Wildlife Environmental Compliance: Chemical Safety
- US Fish and Wildlife Team Leadership
- US Fish and Wildlife Fork lift safety certified
- Hawaii State Pesticide applicator license – Forestry (class 9)
- Wilderness EMT/ Pre-hospital Trauma Life Support/Medical Person in Charge/ CPR for Healthcare Providers – Feb 2009-Feb 2016
- Avalanche Safety Level 1 Certified- Back country hiking, Travel techniques, Map reading, Avalanche rescue, and Risk assessment