



Anne C. Russell, B.S. **Biologist / GIS Technician**

Education

- ◆ Associate of Applied Science, Geographic Information Technology
Albuquerque Technical Vocational Institute, 2006
- ◆ Associate of Applied Science, Environmental Safety and Health
Highest honors, Albuquerque Technical Vocational Institute, 2005
- ◆ Bachelor of Science, Biology, Juniata College, Huntingdon, PA, 2002

Permits and Certifications

- ◆ Special Purpose Permit - Rehabilitation, U.S. Fish and Wildlife Service,
Region 2 Migratory Bird Office (2004 – present)
- ◆ Rehabilitation Permit, N.M. Department of Game and Fish (2004 – present)
- ◆ 40-Hour Hazardous Waste Operations Training (2003-2004)
- ◆ 30-Hour OSHA General Industry Training (2002; lifetime)
- ◆ 8-Hour Confined Space Entry Training (2003-2004)
- ◆ Completed training requirements and passed Fundamental Academic Examination for
DOE Radiological Control Technician (2004)

Professional Affiliations and Committees

- ◆ National Association of Environmental Professionals Rio Grande Chapter, Albuquerque, NM
Current Treasurer
- ◆ Wildlife Rescue, Inc. of New Mexico
Data Manager, Clinic Supervisor
- ◆ Environmental Safety and Health Program Advisory Board
Albuquerque Technical Vocational Institute (2003 – 2006) Student Representative

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General Expertise

Anne Russell is trained as a biologist, geographic information systems technician, and environmental health and safety specialist. Her specific interests include urban wildlife biology, population biology, natural resources management, and zoogeography.

Russell has been the Data Manager and a Clinic Shift Manager for Wildlife Rescue Inc. of New Mexico since 2003. Her data management responsibilities involve supervision of day-to-day record keeping at the clinic, maintenance of the 20-year-plus dataset, compilation of annual report data required by the U.S. Fish and Wildlife Service and New Mexico Department of Game and Fish, and training of Wildlife Rescue staff in data collection and processing.

Because of her knowledge of and interest in the Wildlife Rescue dataset, Russell created a project in 2004, called RAVEN (Research, Analysis, Verification, Education, and Networking). Through the RAVEN Project, students in the Albuquerque Technical Vocational Institute Geographic Information Technologies Program are working as a team to design and implement a database and GIS for use in collecting, storing, organizing, analyzing, and presenting Wildlife Rescue data. Specific RAVEN analyses projects lead by Russell are:

- ◆ a spatial patterns analysis project, where students are exploring the population-level, habitat, and human-wildlife interaction factors which affect wildlife rehabilitation in a metropolitan area;
- ◆ a seasonal acquisition analysis project, in which students are investigating the seasonal peaks and dips in numbers of animals brought to Wildlife Rescue; and
- ◆ an optimal release model project, where students are developing an automated GIS model and interface which can be used to determine the best sites in and around Albuquerque for releasing certain species of animals.

Because Russell has either developed or been involved in several cross-discipline projects, including RAVEN, the NASA Develop 2005 Wildfire Management Team, and the SPECIES Greenhouse Project, she has gained valuable experience in project design and management, in-depth understanding of data management and analysis issues, and an understanding of the important role of GIS in wildlife and ecosystem management.

Russell also volunteers with the U.S. Fish and Wildlife Migratory Bird Permits Office, where she performs filing, archiving, and other office procedures, thereby gaining expertise with the laws, regulations, procedures, and policies of wildlife management in the United States.

Professional Experience

Co-Founder, Vice-President, SPECIEZnm, Inc. (2006–present):

The SPECIEZnm project began in January of 2006; the New Mexico Public Regulation Commission approved and filed the SPECIEZnm Articles of Incorporation effective April 25, 2006. This web-based data service for New Mexico environmental professionals was launched in July of 2006 at SPECIEZnm.org.

Data Manager, Clinic Shift Manager, Wildlife Rescue Inc. of New Mexico; Albuquerque, New Mexico (2003–present): Oversees collection and organization of data records, compiles annual report data required by U.S. Fish and Wildlife Service and New Mexico Department of Game and Fish, and trains new volunteers in use of Wildlife Rescue's data management system. Supervises clinic activities including intakes, daily care, and rehabilitation of animals.

Creator and Leader, The RAVEN Project, Wildlife Rescue Inc. of New Mexico and Albuquerque Technical Vocational Institute; Albuquerque, New Mexico (2004 – present): Developed and leads a project, offered as a course in the Albuquerque TVI Geographic Information Technologies Program, in which a student team is developing a geographic information system and database for Wildlife Rescue Inc. of New Mexico.

Team Member, NASA: New Mexico DEVELOP, University of New Mexico (2005): Used geographic information systems (GIS) and related technology to develop a databank of spatial datasets for Santa Fe County Fire Department. Analyzed wildfire factors and pest infestation distribution in the Santa Fe National Forest.

Consultant, Microsoft PowerPoint presentation design, Wagner Power Systems; Albuquerque, New Mexico (2003): Edited and designed sales presentations for Wagner Power Systems.

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Technical Contributor

Dickerman, R.W. 2006. Notes on the Great Horned Owls of the Rocky Mountains with Description of a New Subspecies. In review at *Jrnl. Raptor Research*.

Publications and Reports

Russell, A.C. 2006. The RAVEN Project: Application of GIS to Rehabilitation Data. At request of Journal; MS in preparation for submission to *Jrnl. Wildlife Rehab.*

Russell, A.C. 2006. The RAVEN Project: A Community College, a Wildlife Rehabilitation Organization, and GIS. At request of Journal; MS in preparation for submission to *ArcNews*.

Presentations

2005 “The RAVEN Project: A GIS for Wildlife Rescue, Inc. of New Mexico.” New Mexico Geographic Information Council Fall Meeting, Albuquerque, New Mexico.

2004 “Application of GIS to Rehabilitation Data.” International Wildlife Rehabilitation Council Annual Conference, Portland, Oregon.

Awards and Nominations

2002-2006 Albuquerque Technical Vocational Institute, Albuquerque, New Mexico

Multiple First Place, Student Excellence, and Outstanding Alumni awards and nominations, including a “Certificate of Appreciation for Excellent Service to the TVI Community.”