

MELANIE PARKER, M.A., GISP

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GEOSPATIAL SPECIALIST

Exceptionally experienced, multilingual, geospatial professional with more than 8 years of expertise utilizing geospatial technologies to advance information management and deliver decision support on an international level. Expertise utilizing industry standard commercial and open source GIS and satellite image-processing software, including ArcGIS suite, ENVI, ERDAS and IDRISI. Comprehensive knowledge of progressive spatial planning methods to directly support natural resource management, stability and economic development program objectives in the U.S. and developing countries.

Core Knowledge & Skills:

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|------------------------------|---------------------------|---------------------------------|
| ⇒ Satellite Image Processing | ⇒ International Relations | ⇒ Advanced Spatial Analysis |
| ⇒ Land Use Optimization | ⇒ Allocation Model Design | ⇒ Environmental Risk Assessment |
| ⇒ Data Management | ⇒ Financial Management | ⇒ Website Design |
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PROFESSIONAL EXPERIENCE

CONFIDENTIAL COMPANY, INC.

8/2001–present

Principal Geospatial/Development Specialist

Office of Information Technology (January 2007- Present)

Geographic Information System/Development Specialist

Management and Operations Systems Team (January 2004-December 2006)

Geographic Information System/Associate Development Specialist

Environment and Natural Resources Group (August 2001–January 2004)

CONFIDENTIAL COMPANY, PORTLAND, OREGON

10/1999–5/2000 and 9/2000–4/2001

GIS Analyst and Program Assistant

Confidential Education Partnership Program Environmental Center for Cultural Education (September 2000–April 2001).

- Designed public information web page about Confidential Education Partnership and performed statistical analysis of the student population. Developed project GIS to allocate and manage human resources for the Education Department and prepared educational resource database for Portland, Oregon.

GIS Laboratory Manager and Program Assistant

International Development Department (October 1999–May 2000).

- Oversaw GIS laboratory and computer maintenance. Designed and updated GIS Program web page. Developed GIS Program alumni database. Prepared materials for GIS seminars. Provided troubleshooting of laboratory software and hardware.

**ABC PROTECTION AND PUBLIC HEALTH DEPARTMENT,
GENERAL WATER COMPANY PORTLAND, OREGON**

2/1997–8/2000

Environmental Protection Specialist/GIS

(February 1997–August 2000)

- Conducted research on the causes and impact of eutrophication in lakes and ponds. Drafted wastewater analytic reports. Completed an inventory of industrial water consumers for Portland. Assessed level of contamination in the industrial wastewater. Monitored water data quality and reported on violations. Produced water-supply system maps. Used GIS to track and assess the flow of potential contaminants. Prepared environmental impact assessment reports. Coordinated water quality analysis.

SELECTION OF PROFESSIONAL ASSIGNMENTS
International Environmental Governance 1, ABC1, (July 2008 – present).

- Introduced new spatial planning and data dissemination solutions for use by ABC1 projects and local partners in designing, managing and reporting on their environmental programs. Identified and demonstrated specific applications useful to program and partners in spatial planning and data management, and suggested additional analysis and training that can be done to develop spatial databases, models and scenarios to support decision making.

International Economic Development for a Sustainable Environment, ABC1, (June 2008- present).

- Designed and deployed participatory community mapping program component. Performed spatial analysis to inform watershed management plans, and conducted training for program staff and partners.

International Medium and Small Enterprises, ABC1 (June – August 2008).

- Developed a financial point of services database and analyzed the distribution of financial services and time to reach a point of service in relation to terrain, population and road networks.

Ridding the World of the Flu, ABC1, (STOP AI) (March 2007–present)

- Developed geospatial training program and manual for animal and human health practitioners. Provided technical assistance to plan for avian influenza outbreak containment and surveillance around the world. Supported analytical poultry risk mapping in Southern Africa.

Confidential Water Project Phase II, New Challenge Corporation, Hawaii (January 2007 – May 2008).

- Developed a project spatial database and an online mapping application. Classified satellite imagery to develop a land use map. Developed a land use planning framework to support spatial multiple criteria evaluation for optimizing land allocation in the Alatona Region.

Sustainable Resource Management, ABC1, Sudan (November 2005– March 2006).

- Analyzed satellite imagery as a data input to a land cover time series analysis for the Mulanje Mountain Ecosystem in Southern Malawi. Supported program monitoring and evaluation through monitoring.

Environmental Protection Services (EPS), International Development Agency (ABC1), Indonesia (November 2005 – December 2006).

- Provided training and technical support in community mapping and advanced spatial analysis. Collaborated with local team members to define innovative spatial planning initiatives for water management and conservation.

Environmental Initiatives (ERI), International Development Agency (ABC1), Madagascar (April 2005 – May 2006).

- Delivered technical support for spatial analysis, data development, and program monitoring and evaluation using GIS and remote sensing. Conducted training for technical specialists and program partners.

Peaceful Democratization (SPD) International Development Agency (ABC1), Indonesia (March 2005–June 2006).

- Developed online mapping application to facilitate analysis and sharing of information related to tsunami relief assistance in Aceh.

Other Relevant DAI Assignments Include:

- Lead GIS trainer, Souss-Massa Water Management Program, ABC1 ▪ Morocco ▪ 2002-2003
- GIS Specialist, Small Grants Program (SGP), ABC1 ▪ East Timor ▪ 2004–2007
- GIS Specialist, Ecuador Small and Medium Enterprises (SALTO), ABC1, 2005-2006
- GIS Specialist Anti-Trafficking Task Order, ABC1 Office of Women in Development (WID) ▪ Washington, D.C., and Burma, Cambodia, Indonesia, Laos, the Philippines, Thailand, and Vietnam ▪ July–September 2004
- Monitoring and Evaluation/GIS Specialist, Productive Resource Investments for Managing the Environment Program/Western Region (PRIME/West) and ABC1 ▪ Uganda ▪ 2004–2007
- GIS Specialist, Land Privatization Support Project, ABC1, Moldova (February 2005–March 2006).

SELECTED PUBLICATIONS

Space, the Final Frontier? How Social Networking Can Help Target Development Interventions
(Bouvier, Bouvier, Goodnough, Ross), 2008, Developing Alternatives, DAI

Integrated Spatial Planning: Mapping a Path for Tackling Development Challenges
(Watson, Bouvier, and Bouvier), 2006, Developments, DAI

PROFESSIONAL DEVELOPMENT

M.A. degree, Geographic Information Systems for Development and Environment

Confidential University, Portland, OR, 2000

Specialization in quantitative analysis, digital image processing, GIS and local planning, dynamic modeling, environmental decision making, and spatial analysis. GPA: 3.76 /4.00

M.A. degree, Sustainable Land Management

University of Confidential, Portland, Oregon, 1997

Specialization in sustainable development, GIS-based environmental management, and risk assessment. GPA equivalent: 4.00/4.00

B.S. degree, Geography and Environmental Studies

University of Confidential, Portland, Oregon, 1996.

Studies in geographic data analysis, geospatial technologies, statistics, topography and cartography, environmental monitoring, water quality, pollutant technologies, geomorphology, physics of the atmosphere, and biogeography. GPA equivalent: 3.76/4.00

Environmental Policy

University of Amsterdam, The Netherlands, 1994. Summer Program

LANGUAGES

Romanian (native), English, (fluent), French (fluent), Spanish (low intermediary), Russian (elementary) and Italian (good comprehension)

PROFESSIONAL AFFILIATIONS

American Association of Geographers (AAG)

American Society of Photogrammetry and Remote Sensing (ASPRS)