

Dan B. Joseph
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I want to effect social and environmental change through effective policy based on quality information, initiatives to increase public awareness, and implementation of creative solutions. From dubbing documentaries for environmental education programs in the Philippines to displaying American Red Cross programs around the world on an interactive web map, I enjoy leveraging technology and learning new skills to solve challenging problems.

WORK EXPERIENCE

American Red Cross: International Services (Washington, DC), 2013 - present

GIS Intern

- Research and promote participatory mapping methods and the use of geospatial information for humanitarian and development work in Uganda, Haiti, and Vietnam
- Produce geospatial manuals and educational materials for non-technical users, employing tools such as Adobe Creative Suite, reveal.js, and web pages
- Understand a variety of tools for presenting geospatial data including interactive web maps such as Leaflet, JavaScript, HTML, CSS
- Produce static maps for a variety of audiences using various GIS software and Adobe Creative Suite
- Collaborate effectively as part of a team using online tools such as GitHub and Trello

U. S. Peace Corps (Culasi, Antique, Philippines), 2010 - 2012

Volunteer, Coastal Resource Management Extension Worker

- Provided project assistance in municipal government environmental and planning offices
- Facilitated communication with project beneficiaries
- Documented progress and reported final outcomes of projects carried out in the municipality
- Researched and advised on best practices for resource management initiatives
- Carried out a USAID grant funded project: wrote a grant proposal, oversaw project activities, tracked and accounted for all funds, and closed out the project
- Collected GPS data then produced maps and other documentation to report on project areas and delineate protected habitat areas
- Designed and provided technical training to municipal employees on GIS, GPS, Microsoft Office programs, Adobe Photoshop, and basic computer skills to improve workplace efficiency
- Promoted eco-friendly practices by implementing environmental education programs: science camps at four high schools for more than 240 total students; community film showings of environmental documentaries I dubbed in the local dialect; presentations to local government officials and employees; demonstrations at community meetings; informational booths at town fiestas and other events; solar cooking workshops in three communities; introduction of an improved cook stove design that burned rice hulls, an agricultural waste product; and lectures at a community college
- Helped coordinate and carry out a multi-week series of biophysical habitat assessments, and co-wrote the most comprehensive report to date on the condition of coral reef habitats in Pandan Bay
- Used Participatory Analysis for Community Action (PACA) to analyze social and resource issues, and contributed to the creation of five year development plans for six communities
- Collaborated with area NGOs and international organizations such as the German Technical Cooperation (GTZ) on projects including community-led reforestation of upland areas for watershed restoration and local governance capacity building for improved resource management and livelihoods

Cornell Productions (Ithaca, NY), 2007 - 2010

Manager

- Communicated with clients regarding their needs leading up to and during events
- Created staffing assignments based on the specifics of contracts and the attributes of employees
- Oversaw payroll records for 25+ employees
- Led teams in the provision of sound reinforcement and lighting services

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Cornell Concert Commission (Ithaca, NY), 2006 - 2010

Volunteer Crew Leader

- Coordinated 20+ students in the production support of major concerts on Cornell's campus

Cornell University: Horticulture Dept. (Ithaca, NY), 2009

Summer Research Assistant

- Contributed to the safe and accurate execution of field crop trials of herbicides

Cornell Plantations (Ithaca, NY), 2008

Natural Areas Research Intern

- Assisted with implementation, and research into the effectiveness, of various invasive species control methods
- Collected GPS data and assisted with field verification of interpreted aerial imagery
- Supported GIS analysis to determine the extent Cornell's natural area holdings mitigated the university's carbon footprint

Virginia Institute of Marine Science (Gloucester, VA), 2007

Research Assistant

- Prepared samples for lab determination of fish age for a study of the striped bass population
- Researched in scientific literature for a marine species mortality database

EDUCATION

Penn State University, World Campus

Certificate, Geographic Information Systems

Completed September 2012

- Geographic principles, problem solving with GIS, database development, Model Builder, Python

Cornell University, Ithaca, NY

B.S. Natural Resources, Plant Sciences, Minor in International Trade and Development

Graduated Cum Laude February 2010

- Environmental policy, resource management, conservation planning
- GIS, environmental information science
- Ecology, botany, soil science
- Research procedures and protocol
- Economics, agriculture in a development context, food policy, emerging markets

OTHER

Eagle Scout, Boy Scouts of America

American Red Cross Adult First Aid/CPR/AED Certification

PADI Advanced Open Water Diver Certification