

# Christiaan Scott Adams

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## QUALIFICATIONS SUMMARY

Five years in environmental engineering, GIS, web development, modeling, project management, education, fieldwork & lab work, in the U.S. & overseas. Natural resources, policy analysis, and international development background. Strong technical & analytic proficiency, written/oral communication, team/leadership orientation, creative design, multi-lingual.

**Education: Massachusetts Institute of Technology** Cambridge, Massachusetts  
**Technology & Policy Program, MS; Civil & Environmental Engineering, MS; February 2004**  
Courses include: Regional Economics, Leadership Development, Systems Design, Risk Analysis.  
**Teaching Assistant** in GIS Applications for Environmental Engineering, 2001 - 2003

**Lehigh University** Bethlehem, Pennsylvania  
**Civil Engineering, BS, June 1996**, Graduated with honors, GPA: 3.32/4, GRE: 2220/2400

**Experience: Research Engineer & GIS Specialist, MIT Sea Grant College Program 2004 - present**

- Developing online database and mapping applications for marine resource management
- Design and maintenance of GIS applications, marine resource databases and websites
- Manager and instructor for the MIT Ocean Engineering undergraduate teaching laboratory
- Technical advisor and instructor for K-12 program in naval architecture and ocean engineering
- Autonomous Underwater Vehicle (AUV) Lab mapping system development, for 3-D bathymetric data collection, AUV expedition planning, vehicle tracking, and imagery display and dissemination

**Graduate Research Assistant, MIT Sea Grant College Program 2001 - 2004**

- Research and Thesis work developing an interactive-online GIS to facilitate stakeholder involvement in environmental site selection; case study: MPAs in Stellwagen Bank NMS.
- Developed online grid analysis application to calculate siting proposals from user preferences
- Studied effective use of web-based stakeholder preference input for policy-making

**Senior Intern, US Department of State, OES/ETC Summer 2002**

- Assisted the Senior Forest Negotiator in developing multilateral forest conservation policy
- Participated in interagency consultations on the Presidential Initiative against illegal logging
- Advised on GIS capabilities in remote sensing and change detection, with NASA & Forest Service

**Assistant Project Engineer II, Roy F. Weston, Inc. (WESTON Solutions®) 1999 - 2001**

- GIS, GPS, cartography, database, and model integration using ArcView GIS
- Hazardous soils excavation modeling and project development for USPTO landfill removal
- Prepared Water Quality Management Plan for Baltimore Harbor Watershed
- Modeled runoff, water quality, and collection systems using EPA-SWMM, HEC-RAS & TR-20
- Managed and conducted water quality sampling efforts for municipal waste water treatment plant

**Volunteer: Urban Environmental Management Consultant**

**US Peace Corps, Ivory Coast, West Africa**

**1997 - 1999**

- Collaborated with Municipality of Bangolo to develop environmental, sanitation, & health services
- Completed comprehensive Environmental Impact Assessment with low-cost solutions
- Organized, trained and managed solid waste collection business & community health agents
- Initiated, developed, and facilitated passage of first comprehensive Municipal Environmental Laws
- Lived, worked and wrote reports in French. Adapted well to cross-cultural integration.

**Skills: Computer:** ArcGIS Server & Desktop, ArcView, ArcIMS, ASP.NET, Visual Basic, Word, Excel, Access, PowerPoint, SQL, HTML, JavaScript, FORTRAN, SWMM and TR-20, Google Earth/KML.  
**Communication:** Presentations and production of large reports, web sites, training manuals and government documents. French: fluent, Dutch: fluent conversationally, German: some proficiency.

**Activities:** Hiking, Climbing, Mt. Biking, Outdoor training and leadership, Music, Photography.