

## Dawn Jeannine Wright

Chief Scientist

Environmental Systems Research Institute

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### Professional Preparation:

B.S., 1983, Wheaton College, Wheaton, Illinois

*Geology (cum laude)*

M.S., 1986, Texas A&M University, College Station, Texas

*Oceanography*

Ph.D., 1994, University of California, Santa Barbara, California

*Individual Interdisciplinary Ph.D. in Geography and Marine Geology*

Postdoctoral Institutions, 1995: NOAA Pacific Marine Environmental Lab (PMEL), Newport, OR and Oregon State University

### Positions Held:

Chief Scientist, Environmental Systems Research Institute, 2011-present

Professor of Geography and Oceanography, Oregon State University, 2002-present (*on leave*)

Associate Professor, Oregon State University, 1999-2002

Assistant Professor, Oregon State University, 1995-1999

Postdoctoral Senior Researcher, Oregon State University and NOAA, 1995

Graduate Student Researcher, Marine Science Institute and National Center for Geographic Information and Analysis, Santa Barbara 1990-1994

Marine Laboratory Specialist, Logistics and Technical Support, Ocean Drilling, Texas A&M, 1986-1989

### Research Cruise Experience:

2005 – Chief Scientist, Hawai'i Undersea Research Lab cruise KOK0510, *R/V Ka'imikai-o-Kanaloa*, *Pisces V* submersible dives to American Samoa coral reefs (benthic habitat)

2001-'02 - Co-PI on shallow- and deepwater surveys, small survey boat and *R/V Revelle*, American Samoa coral reefs

1996 - Co-Chief Scientist, Boomerang Leg 2, *R/V Melville*, Tonga Trench and Forearc

1996 - *Argo II* Watch Leader, Sojourn Leg 2, *R/V Melville*, Southern East Pacific Rise

1995 - *Alvin* Observer, *R/V Atlantis II*, Co-Axial segment of Juan de Fuca Ridge and Co-Axial and Cleft segments of Juan de Fuca Ridge

1992 - Sea Beam 2000/HMR-1 Watch Leader, Gloria Leg 2, *R/V Melville*, Southern East Pacific Rise; Shipboard Scientist, *R/V Atlantis II*, Northern East Pacific Rise, 9°N

1991 - *Alvin* Observer, *R/V Atlantis II*, Northern East Pacific Rise, 9°N

1986-'89 - **10 cruises aboard *D/V JOIDES Resolution***, Ocean Drilling Program marine technician

### Recent Professional Recognition:

Distinguished Teaching Honors, Association of American Geographers (AAG), 2013

Presidential Achievement Award, AAG, 2012

Leopold Leadership Fellow, Woods Institute of the Environment, Stanford University, 2011

American Association for the Advancement of Science (AAAS) Fellow, 2008

U.S. Professor of the Year for Oregon, CASE, Carnegie Foundation for Advancement of Teaching, 2007

Milton Harris Award for Excellence in Basic Research, College of Science, Oregon State University, 2005

Excellence in Mentoring, College of Oceanic and Atmospheric Sciences, OSU, 1998 and 2001

Outstanding Professor, University Honors College, Oregon State University, 1999

Faculty Early Career Development Award, NSF CAREER, 1995-1998

### Five Relevant Publications:

1. **Wright, D.J.** and Wang, S. The emergence of spatial cyberinfrastructure, *Proceedings of the National Academy of Sciences*, 108(14): 5488-5491, 2011.
2. **Wright, D.J.**, Theory and application in a post-GISystems world, *International Journal of Geographical Information Science*, 26(12), 2197-2209, 2012.
3. **Wright, D.J.**, Dwyer, E., and Cummins, V. (eds.). *Coastal Informatics: Web Atlas Design and Implementation*, Hershey, PA, IGI-Global, 350 pp., 2011.

4. **Wright, D.J.**, Roberts, J., Fenner, D., Smith, J.R., Koppers, A.A.P., Naar, D., Hirsch, E.R., Clift, L.W., and Hogrefe, K.R., Seamounts, ridges, and reef habitats of American Samoa, in Harris, P.T. and Baker, E.K. (eds.), *Seafloor Geomorphology as Benthic Habitat: GeoHab Atlas of Seafloor Geomorphic Features and Benthic Habitats*, Elsevier, Amsterdam, 791-806, 2012.
5. **Wright, D.J.**, M.J. Blongewicz, P.N. Halpin, and J. Breman, 2007. *Arc Marine: GIS for a Blue Planet*, Redlands, CA, ESRI Press, 275 pp., 2007.

#### **Five Additional Publications:**

1. Lassoued, Y., **Wright, D.J.**, Bermudez, L., and Boucelma, O., Ontology-based mediation of OGC Catalogue Service for the Web requests: A virtual solution for integrating coastal web atlases, *Proceedings of ICISOFT 2008, the 3rd International Conference on Data and Software Engineering*, Berlin: Springer, 2008.
2. Lundblad, E., **Wright, D.J.**, Miller, J., Larkin, E.M., Rinehart, R., Battista, T., Anderson, S.M., Naar, D.F., and Donahue, B.T.. A benthic terrain classification scheme for American Samoa, *Marine Geodesy*, 29(2): 89-111, 2006.
3. Mayer, L., Barbor, K., Boudreau, P., Chance, T., Fletcher, C., Greening, H., Li, R., Mason, C., Metcalf, K., Snow-Cutter, S., and **Wright, D.** *National Needs for Coastal Mapping and Charting*, Washington D.C.: National Academies Press, 149 pp., 2004.
4. **Wright, D.J.** Formation and development of fissures at the East Pacific Rise: Implications for faulting and magmatism at mid-ocean ridges, in Buck, W.R., Delaney, P., Karson, J. A., and Lagabrielle, Y. (Eds.), *Faulting and Magmatism at Mid-Ocean Ridges*, Geophysical Monograph 106, Washington, D.C: American Geophysical Union, 137-151, 1998.
5. **Wright, D.J.**, and M.F. Goodchild. Data from the deep: Implications for the GIS community, *Int. J. Geographical Information Science*, 11(6): 523-528, 1997.

#### **Synergistic Activities:**

1. NOAA Science Advisory Board
2. National Academy of Sciences NRC service: (1) Ocean Studies Board; (2) Committee on Ocean Infrastructure Strategy for US Ocean Research in 2030; and (3) Committee on Strategic Directions for the Geographical Sciences in the Next Decade.
3. Development and coordination of the Arc Marine Data Model for a user community of ~1500 ([dusk.geo.orst.edu/djl/arcgis](http://dusk.geo.orst.edu/djl/arcgis)), with a technical design and testing team of 32, and 150 reviewers from 29 countries worldwide.
4. Co-director of the International Coastal Atlas Network, 50 organizations from over 10 countries ([ican.science.oregonstate.edu](http://ican.science.oregonstate.edu)).

#### **Recent Collaborators (past 48/24 months)**

C. Scott Baker (OrSt), Eric Barron (FSU), Jim Bellingham (MBARI), Kathy Belpaeme (Flanders Marine Institute, BELGIUM), Marcia Berman (VIMS), Sherm Bloomer (OrSt), Emmanuel Boss (U-Maine), Ed Boyle (WHOI), Flaxen Conway (OrSt), John Calambokidis (Cascadia Research), Val Cummins (U. College Cork, IRELAND), David DiBiase (Penn State + Esri), Bob Duncan (OrSt), Ned Dwyer (U. College Cork, IRELAND), Margo Edwards (U-Hawaii), Trevor Falloon (U-Tasmania, AUSTRALIA), Rana Fine (U-Miami), Mike Goodchild (UCSB), Christopher Goranson (City of New York), Tanya Haddad (Oregon Coastal Mgmt Program), Liz Hadly (Stanford), Francis Harvey (U-Minnesota), Will Heyman (Texas A&M), Kyle Hogrefe (USGS), Dan Hudgens (IEC), Ken Johnson (MBARI), Dylan Keon (OrSt), Deborah Kelley (U-Washington), Kathrin Kopke (U. College Cork, IRELAND), Steve Kopp (Esri), Anthony Koppers (OrSt), Victoria Kouyoumjian (Esri, now w/HP), Hauke Kite-Powell (WHOI), Ron Li (Ohio State), Dave Naar (U-S. Florida), Liz O'Dea (WA Dept. of Ecology), Carrie Pomeroy (UCSC), Steve Ramberg (Nat'l Defense U.), Jed Roberts (DOGAMI), Dan Rudnick (Scripps), Oscar Schofield (Rutgers), John Smith (U-Hawaii), Colleen Sullivan (OrSt), Mario Tamburri (U. Maryland), Peter Wiebe (WHOI), Shaowen Wang (U-Illinois).

#### **Graduate and Postgraduate Advisors**

Dr. Christopher G. Fox, NOAA-PMEL (Postdoctoral supervisor)  
 Dr. Raymond C. Smith, UCSB Geography (Doctoral Committee Chair)

#### **Graduate Students/Post-graduate Sponsorship**

Doctoral advisees: Dori Dick (OrSt, current), Dylan Keon (OrSt), Debbie Reusser (USGS), Tiffany Vance (NOAA), Kyle Hogrefe (post-grad sponsor, USGS). *Total students advised to completion*: 21 Doctoral (3 as major professor, 4 as minor professor), 85 Master of Science (31 as major professor, 23 as minor professor), and 1 B.S. Honors undergraduate student. *Currently major adviser* for 1 Doctoral student.