

Ann Zimmerman

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University of Michigan  
School of Information  
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### **Education**

**Ph.D. in Information and Library Studies**

University of Michigan, Ann Arbor, MI, 2003

Dissertation: "Data Sharing and Secondary Use of Scientific Data: Experiences of Ecologists"

Advisor: Margaret Hedstrom

**M.A. in Library and Information Science**

University of Iowa, Iowa City, IA, 1986

**B.A. in English with Secondary Teaching Certification**

University of Iowa, Iowa City, IA, 1984

### **Professional Experience**

**Research Assistant Professor, University of Michigan, School of Information, Collaboratory for Research on Electronic Work, Ann Arbor, MI**

June 2007-present

**Research Fellow, University of Michigan, School of Information, Collaboratory for Research on Electronic Work, Ann Arbor, MI**

November 2003-May 2007

**Librarian, U.S. Geological Survey, Great Lakes Science Center, Ann Arbor, MI**

1991-2003

**Librarian, U.S. Fish and Wildlife Service, Northern Prairie Wildlife Center, Jamestown, ND**

1987-1991

**Librarian, *The Beacon-News*, Aurora, IL**

1986-1987

### **Other Experience**

**Research Assistant (Volunteer), The PEAK Project, University of Michigan, Ann Arbor, MI**

1997-1998

**Research Assistant, Books for Young Adults Program, University of Iowa, Iowa City, IA**

1985-1986

## Publications and Presentations

### Books

Olson, G. M., Zimmerman, A., & Bos, N., editors. (2008). *Scientific Collaboration on the Internet*. Cambridge, MA: MIT Press.

### Book Chapters

Bos, N., Zimmerman, A., Olson, J. S., Yew, J., Yerkie, J., Dahl, E., Cooney, D., & Olson, G. M. (2008). From shared databases to community of practice: A taxonomy of collaboratories. In Olson, G. M., A. Zimmerman, & N. Bos (Eds.), *Scientific Collaboration on the Internet*. Cambridge, MA: MIT Press.

Olson, J. S., Hofer, E. C., Bos, N., Zimmerman, A., Cooney, D., & Faniel, I. (2008). A Theory of Remote Scientific Collaboration. In Olson, G. M., A. Zimmerman, & N. Bos (Eds.), *Scientific Collaboration on the Internet*. Cambridge, MA: MIT Press.

Zimmerman, A., Bos, N., Olson, J. S., & Olson, G.M. (in press). The promise of data in e-Research: Many challenges, multiple solutions, diverse outcomes. In N. Jankowski (Ed.), *e-Research: Transformations in Scholarly Practice*. Routledge. (Invited chapter)

### Refereed Publications

Zimmerman, A. (2008). New knowledge from old data: The role of standards in the sharing and reuse of ecological data. *Science, Technology, and Human Values*. 33(5): 631-652.

Bos, N., Zimmerman, A. Olson, J., Yew, J., Yerkie, J., Dahl, E., & Olson, G. (2007). From shared databases to communities of practice: A taxonomy of collaboratories. *Journal of Computer-Mediated Communication* 12, 2, article 10.

Available: <http://jcmc.indiana.edu/vol12/issue2/bos.html>

Zimmerman, A. (2007). Not by metadata alone: The use of diverse forms of knowledge to locate data for reuse. *International Journal on Digital Libraries* 7 (1-2), 5-16.

Zimmerman, A. (2007). A socio-technical framework for cyberinfrastructure design. *e-Social Science Conference, Ann Arbor, MI, October 7-9, 2007*.

Available: <http://ess.si.umich.edu/papers/paper200.pdf>

Zimmerman, A., & Finholt, T. A. (2007). Growing an infrastructure: The role of gateway organizations in cultivating new communities of users. Pages 239-248 in *Proceedings of the International ACM SIGGROUP Conference on Supporting Group Work (GROUP '07)*, ACM Press, New York, NY.

Zimmerman, A., & Nardi, B. A. (2006). Whither or whether HCI: Requirements analysis for multi-sited, multi-user cyberinfrastructures. *Proceedings CHI 2006*, ACM Press, New York, 1601-1606.

Zimmerman, A. (1995). Partnerships and opportunities: The archival management of geographic information systems. *Archival Issues* 20, 1, 23-37 (released 1997).

Schloesser, D. W., bij de Vaate, A. & Zimmerman, A. (1994). A bibliography of *Dreissena polymorpha* in European and Russian waters: 1964-1993. *Journal of Shellfish Research* 13(1), 243-267.

Conner, J. W., Kathleen M. Tessmer, Alyce J. Toloui, Ann Nauman (Zimmerman), & Ann M. Drew. (1986). 1986 Books for Young Adults Poll. *English Journal* 75(8), 58-61.

### Popular Articles and Book Reviews

Zimmerman, A., Olson, J. S., Olson, G. M., & Bos, N. (2008). Factors affecting the success of collaboration at a distance. *LTET Network News* 21(1), 6-7.  
Available: <http://www.lternet.edu/news/Article192.htm>

Zimmerman, A. (2007). Rapid network evolution prompts changes to LTER governance. *LTET Network News* 19, 2, 4-5.  
Available: <http://www.lternet.edu/news/Article108.html>

Zimmerman, A. (1997). Review of *Geographic Information Systems and Libraries: Patrons, Maps, and Spatial Information*, by Linda C. Smith and Myke Gluck, eds. *Library Resources & Technical Services*, 41, 67-70.

### Reports

Lawrence, K. A., & Zimmerman, A. (2007). *TeraGrid Planning Process Report: August 2007 User Workshops*. Collaboratory for Research on Electronic Work, School of Information, University of Michigan, Ann Arbor, MI.

Lawrence, K. A., & Zimmerman, A. (2007). *TeraGrid Planning Process Report: June 2007 Workshop for Science Gateways*. Collaboratory for Research on Electronic Work, School of Information, University of Michigan, Ann Arbor, MI.

TeraGrid Impact Requirements Analysis Team. (2006). *Measuring TeraGrid impact: Methods to document effects of TeraGrid resources and capabilities on scientific practice and outcomes*. I was Co-Chair of this committee and a lead author of the report.

Zimmerman, A., & Finholt, T. A. (2006). *TeraGrid User Workshop Final Report*. Collaboratory for Research on Electronic Work, School of Information, University of Michigan, Ann Arbor, MI.

Zimmerman, A., & Finholt, T. A. (2008). Report from the TeraGrid Evaluation Study: Project Findings. Collaboratory for Research on Electronic Work, School of Information, University of Michigan, Ann Arbor, MI.

### Presentations

*The Promise?—or—Promise! of Data in eResearch: Many Challenges, Multiple Solutions, Diverse Outcomes*. Invited presentation at the eResearch '08 Conference, Oxford, England, September 12, 2008.

- Cooperating Across Virtual Organizations: The Role of Gateway Organizations in Cultivating New Communities of TeraGrid Users.* Invited panel presentation at the Building Effective Virtual Organizations Workshop, Washington, DC, January 15, 2008.
- Cyberinfrastructure and Scientific Understanding for 21st Century.* Invited presentation to Workshop on Systems in Transition, Colby-Sawyer College, New London, NH, December 10, 2007.
- Growing an Infrastructure: The Role of Gateway Organizations in Cultivating New Communities of Users,* GROUP Conference, Sanibel Island, FL, November 7, 2007. (with Thomas Finholt)
- Shifts in Practice or Shifty Practice? Issues of Power, Authority, and Legitimacy in Digital Data Bases.* Society for Studies of Science, Montreal, Ontario, October 11, 2007.
- A Socio-Technical Framework for Cyberinfrastructure Design.* e-Social Science Conference, Ann Arbor, MI, October 8, 2007.
- Collaborations at a Distance: Issues of Success.* Invited Presentation to the Distributed Cyberinfrastructure Seminar, University of New Mexico, April 5, 2007.
- Cragin, Melissa H., MacMullen, W. John, Wallis, Jillian C., & Zimmerman, Ann. (2006). Managing Scientific Data for Long-term Access and Use. (Panel at the November 2006 ASIS&T Annual Meeting.) Presentation: *Many Challenges, Multiple Solutions: Facing the Barriers to Data Sharing and Re-use.*
- An Evolving LTER Network Requires Changes to Governance.* LTER Executive Committee Meeting, National Science Foundation, Arlington, VA, March 8, 2006. (with John Magnuson and the LTER Governance Working Group)
- Scientists Serving Science: Stakeholder Participation as an Approach to Build, Sustain, and Evolve Community Oriented Collaboratories.* Collaboratory for Research on Electronic Work Seminar, Ann Arbor, MI November 21, 2005 (with Ixchel Faniel)
- Technology Rules: Understanding and Supporting Emerging Practice in Ecology.* Society for Social Studies of Science, Pasadena, California, October 21, 2005. (with Bonnie Nardi and Susan Sim)
- Collaboratory Environments in Developing Countries.* Strategies for Permanent Access to Scientific Information in Southern African: Focus on Health and Environmental Information for Sustainable Development: An International Workshop, Pretoria, South Africa, September 5, 2005. (with Gary Olson)
- Sakai Collaboratory Environments and User Requirements.* Mid-America Earthquake Center Annual Meeting, Coral Gables, Florida, February 25, 2005. (with Thomas Finholt and Charles Severance)
- Information and Knowledge for Data Reuse: Lessons from Ecology.* Academy of Management, New Orleans, Louisiana, August 10, 2004.
- Ecological Data Sharing: Current Practice and Lessons for 'Scaling Up'.* The Long-Term Ecological Research Network Ecoinformatics Workshop, Albuquerque, New Mexico, October 30, 2003.

*Data Sharing and Secondary Use of Scientific Data: What Can Collaboratories Learn from Ecology?*  
Science of Collaboratories Seminar, University of Michigan, September 11, 2003.

*Across the Great Divide: How to Present Methods to Broad Audiences and Live to Tell the Tale.* First  
Annual University of Michigan Graduate Student Qualitative Research Conference, March 15,  
2002.

## **Grants, Awards, and Honors**

### **NSF Grant for "The Emergence of Collaborative Social Structure in nanoHUB Cyberspace"**

The goal of this project is to understand the degree to which nanoHUB, and organizations like it, generates new intellectual capital; the technical and social features of the nanoHUB that support knowledge generation; and, the conditions needed to improve design choices for the expansion and creation of science gateways. This is a collaborative project with researchers at Purdue University.  
2008-2010

Amount to UM: \$111,687

### **NSF Grant for "CI-TEAM Demonstration: Developing a Model for Engagement of Citizen Scientists: Lake Association Project"**

I am a Co-Principal Investigator on this multidisciplinary and multi-institutional project whose purpose is to engage citizen scientists in the development of advanced technologies to retrieve, view, understand, and analyze real-time lake sensor data and to create and evaluate a model for their engagement.

2008-2009

Amount to UM: \$20,000

### **NSF Grant for "The Evolution of TeraGrid: A Community Driven Participatory Planning Process"**

I am Principal Investigator on this project and responsible for facilitating the planning process for a multi-million dollar NSF high-performance computing program.

2007-2009

Amount: \$450,000

Project web site: <http://teragridfuture.org>

### **NSF Grant for "Learning from TeraGrid: An Evaluation of a Large-Scale Cyberinfrastructure Project"**

I was the Co-Principal Investigator on this project, which is based at the University of Michigan.

2006-2008

Amount: \$250,000, 2006-2008

### **NSF Grant, "NSF Research Educator's Network (NRCEN): Participant Scientists and Engineers, a Scalable Virtual Home for Education, Outreach, and Public Engagement Professional"**

I was included as Senior Personnel on this project. My role was to assess the needs of the user community and to provide information about the effectiveness of NRCEN in its early stages.

2006-2007

### **NSF Grant, "Planning for the Long Term Ecological Research (LTER) Network"**

I served as Chair of the Governance Working Group and advised on methods to improve collaboration within and outside the LTER Network.

Amount: Subcontract to University of Michigan for \$54,000, 2004-2006

**NSF Grant for “Collaboration in Ecology Workshop”**

I co-authored the proposal and co-organized the workshop in partnership with Bonnie Nardi, University of California, Irvine (UCI). The funds were awarded to UCI.

Amount: \$30,000, 2004

Workshop web site: <http://www.crito.uci.edu/2/eco-workshop/index.asp>

**Certificate of Recognition, 2004 Eugene Garfield ALISE Doctoral Dissertation Award**

Association for Library and Information Science Education, 2004

**Honorable Mention, Distinguished Dissertation Award of 2003**

Rackham School of Graduate Studies, University of Michigan, 2004

**Rackham One Term Dissertation Fellowship**

Rackham School of Graduate Studies, University of Michigan, Spring/Summer 2002

**Virginia Ehrlicher Scholarship**

Awarded annually to a doctoral student of superior talent and ability.

School of Information, University of Michigan, Fall 2001

**Finalist, ISI Dissertation Proposal Scholarship**

American Society for Information Science and Technology, Fall 2001

**National Biological Information Infrastructure Grant**

Lead author of a joint proposal to expand electronic access to federal agency library collections.

Amount: \$50,000, 1995

**Member, Phi Beta Kappa**

**Academic and Professional Service**

**Chair, Breakout Session: Cyberinfrastructure for All: Connectivity, Content, and Collaboration**

National Council on Science and the Environment Annual Conference

February 2005

Conference web site: <http://www.ncseonline.org/ncseconference/2005conference/>

**Member, Information Technology and Communication Subcommittee**

National Ecological Observatory Network (NEON) Design Consortium

2004-2005

NEON web site: <http://www.neoninc.org/>

**CREW Seminar Coordinator**

Collaboratory for Research on Electronic Work, School of Information, University of Michigan

2004-2005

**Vice-Chair for Publicity**

Southern Michigan Northern Ohio Local Special Interest Group in Computer Human Interaction of the Association for Computing Machinery

2004

**Member, Steering Committee**

First Annual University of Michigan Graduate Student Qualitative Research Conference  
2001-2002

**President, Doctoral Student Organization**  
School of Information, University of Michigan  
1999-2000

**Program Chair**  
Connections '97: The Third Great Lakes Information Science Conference  
1997

**Member, Information Management and Delivery Committee**  
U.S. Geological Survey  
1996-1998

**Vice-President, Washtenaw-Livingston Library Network**  
1994

**Member, North Dakota Advisory Council on Libraries**  
1990-1991

### **Professional Affiliations**

- American Society for Information Science and Technology
- Association for Computing Machinery
- Association for Library and Information Science Education
- Society for Social Studies of Science