

# Matthew J. Bietz

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## Current Positions

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*Research Scientist (Post-doctoral)*, Department of Human Centered Design & Engineering,  
University of Washington (2008 - )

Collaboration in the Development of Cyberinfrastructure (NSF-0712994)  
Leveraging Development Expertise Across Cyberinfrastructures (NSF-0838601)  
PI: Charlotte P. Lee

*Research Associate (Post-doctoral)*, Institute for Software Research, University of California,  
Irvine (2009 - )

Continuous Coordination Research Group  
PI: David Redmiles

## Education

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- 2008      *Ph.D. in Information*  
University of Michigan School of Information, Ann Arbor, MI
- Dissertation: "Interactivity and Electronic Communication: An Experimental Study of Mediated Feedback"
- Dissertation Committee:  
Dr. Gary M. Olson, School of Information (Chair)  
Dr. Judith S. Olson, School of Information  
Dr. Michael D. Cohen, School of Information  
Dr. Jason D. Owen-Smith, Sociology & Organizational Studies
- 2000      *M.S. in Information*  
University of Michigan School of Information, Ann Arbor, MI
- 1997      *M.A. in Historical Musicology*  
State University of New York at Stony Brook , Stony Brook, NY
- Thesis: "Remembering in Frederic Rzewski's *The People United Will Never Be Defeated*"

1995      *B.A. in English, cum laude*  
            *B.Mus. in Cello Performance, cum laude*  
            Lawrence University, Appleton, WI

## Refereed Publications

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- Bietz, M. J., Lee, C. P., & Baumer, E. (under review). Synergistic Cyberinfrastructure Development.
- Bietz, M. J., & Lee, C. P. (2009). Collaboration in metagenomics: Sequence databases and the organization of scientific work. In E. Balka, L. Ciolfi, C. Simone, H. Tellioglu & I. Wagner (Eds.), *ECSCW 2009: Proceedings of the 11th European Conference on Computer Supported Cooperative Work, 7-11 September 2009, Vienna, Austria* (pp. 243-262). London: Springer-Verlag.
- Bietz, M. J. (2008). Effects of communication media on the interpretation of critical feedback. *Proceedings of the ACM 2008 Conference on Computer Supported Cooperative Work*. New York, ACM Press: 467-476.
- Bietz, M. J., Naidoo, M., & Olson, G. M. (2008). The International AIDS Research Collaboratory. In G.M. Olson, A. Zimmerman, and N. Bos (Ed.). *Scientific Collaboration on the Internet*. Cambridge, MA: MIT Press.
- Birnholtz, J., & Bietz, M. J. (2003). Data at work: Supporting sharing in science and engineering, *Proceedings of the 2003 International ACM SIGGROUP Conference on Supporting Group Work* (pp. 339-348). New York, NY: ACM Press.
- Olson, G. M., Bietz, M. J., Naidoo, M., Cogburn, D. L., & Teasley, S. (2002). Collaboratories to support distributed science: The example of international HIV/AIDS research, *Proceedings of the 2002 Annual Research Conference of the South African Institute of Computer Scientists and Information Technologists on Enablement Through Technology* (pp. 44-51). Pretoria, Republic of South Africa: South African Institute for Computer Scientists and Information Technologists.
- Whitten, W. B. II, Benimoff, N., Schubert, R. E., Anthal, J. S., Olson, J. S. and Bietz, M. (2001). Tracking user experience: A unified metric. *Proceedings of the Conference on Human Factors in Telecommunications*. Bergen, Norway, November 5-7, 2001.

## Conference Presentations and Invited Talks

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- Lee, C. P., Bietz, M. J. & Thayer, A. (2010). Stakeholders in cyberinfrastructure development. Position paper for *The Changing Dynamics of Scientific Collaborations* workshop at the ACM Conference on Computer Supported Cooperative Work (CSCW). Savannah, GA, Feb. 7, 2010.

- Thayer, A., Bietz, M.J. & Lee, C.P. (2010). Managing intimacy using online calendar systems. Poster presented at the ACM Conference on Computer Supported Cooperative Work (CSCW). Savannah, GA, Feb. 8, 2010.
- Bietz, Matthew J. (2009) The social life of data: Data management challenges and opportunities. Presented at the AGU Fall Meeting, San Francisco, CA, Dec. 14, 2009.
- Bietz, M. J. & Lee, C. P. (2009). Cyberinfrastructure and scientific validity in metagenomics research. Presented at the Society for Social Studies of Science (4S) Annual Meeting, Washington, D.C., Oct. 28 – Nov. 1, 2009.
- Bietz, M. J. & Lee, C. P. (2009). Designing cyberinfrastructure for future users. Position paper for *Collaborative Infrastructuring – Conceptualizing Emergence and Design of Information Infrastructures* workshop at the European Conference on Computer-Supported Cooperative Work (ECSCW), Vienna, Sep. 7, 2009.
- Lee, C. P. & Bietz, M. J. (2009). Barriers to the adoption of new collaboration technologies for scientists. Position paper for *The Changing Face of Digital Science: New Practices in Scientific Collaborations* workshop at the ACM Conference on Computer-Human Interaction (CHI), Boston, MA, Apr. 5, 2009.
- Lee, C. P., Bietz, M. J., and Ribes, D. (2008). *Designing cyberinfrastructure to support science*. Workshop at ACM Conference on Computer Supported Cooperative Work (CSCW), San Diego, CA, Nov. 8, 2008.
- Bietz, M. J. (2006). Feedback communication in mixed-media environments: An experimental study. Poster presented at the ACM Conference on Computer Supported Cooperative Work, Banff, Canada.
- Bietz, M. J. (2006). Interactivity and electronic communication: An experimental study of mediated feedback. Paper presented at the Institute for Software Research Graduate Student Research Symposium, University of California, Irvine.
- Bietz, M. J. (2004). Feedback acceptance in distributed work. Poster presented at the ACM Conference on Computer Supported Cooperative Work, Chicago, Illinois.
- Bietz, M. J., & Birnholtz, J. (2004). How data contribute to scientific practice. Paper presented at the Academy of Management 2004 Annual Meeting, New Orleans, Louisiana.
- Olson, G. M., Bietz, M. J., Naidoo, M., Cogburn, D. L., & Teasley, S. (2003). Collaboratories for HIV/AIDS research in southern Africa. Paper presented at the HELINA 2003: Communication and Information Technology in the Global Fight Against HIV/AIDS, Johannesburg, South Africa.
- Bietz, M. J. (2003). Distributed medicine and interpersonal interaction: Implications for technology design. Paper presented at the HELINA 2003: Communication and Information Technology in the Global Fight Against HIV/AIDS, Johannesburg, South Africa.

Bietz, M. J. (2003). Delay and Trust in Distributed Collaboration. Presented as part of panel “New millennium, new workplace: Implications of changing workplace relationships” at Academy of Management 2003 in Seattle, WA.

Bietz, M. J., & Olson, G. M. (2002). International AIDS research collaboratory: Boundary practices for distributed science. Poster presented at the ACM Conference on Computer Supported Cooperative Work 2002, New Orleans, LA.

Bietz, M. J. (2000). Systems Design for the Gendered Workplace: Feminist Practice and Information Technology. Paper presented at the University of Michigan Interdisciplinary Program in Feminist Practice Graduate Student Conference, Practicing in 3-D: Juggling Multiple Identities, Ann Arbor, MI, March 2000.

## Research & Professional Experience

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- 2008 *Post-Doctoral Researcher*, Department of Informatics, Donald Bren School of Information and Computer Sciences, University of California, Irvine. Charlotte Lee, supervisor.
- 2000-2007 *Graduate Student Research Assistant*, School of Information, University of Michigan, Ann Arbor, MI.  
Science of Collaboratories Project; Waterford Project; International AIDS Research Collaboratory.
- 1999 *Usability Intern*, Microsoft Corporation, Redmond, WA.
- 1999- 2000 *Project Team Member: Cultural Heritage Initiative for Community Outreach (CHICO)*, School of Information, University of Michigan, Ann Arbor, MI.
- 1998 – 2000 *Intern*, Institute for Research on Women and Gender, University of Michigan, Ann Arbor, MI.
- 1997-1998 *Instructional Support Associate*, Music Library, State University of New York at Stony Brook, Stony Brook, NY.
- 1997 *Research Assistant*, Music Department, State University of New York at Stony Brook, Stony Brook, NY. Joseph Auner, supervisor.
- 1994-1995 *Research Assistant*, Lawrence University, Appleton, WI. Dominique René de Lerma, supervisor.

## Research Areas

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*Socio-Technical Information and Communication Systems: Computer-Mediated Communication, Distributed Knowledge Work, Relational Practice*

*Cyberinfrastructure, Collaboratories, and e-Science: Distributed Research Groups, International Scientific Collaboration, e-Science and Development, Databases and Data Sharing*

*User-Centered Design of Information and Communication Technology: Usability Methods, Participatory Design, User Needs Analysis, Computer Supported Cooperative Work*

## **Awards and Fellowships**

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| 2006      | i-Conference Doctoral Colloquium   |
| 2006      | Rackham Discretionary Grant, Horace H. Rackham School of Graduate Studies, University of Michigan  |
| 2005-2006 | Rackham Predoctoral Fellowship, Horace H. Rackham School of Graduate Studies, University of Michigan   |
| 2004      | ACM Conference on Computer-Supported Cooperative Work (CSCW) Doctoral Colloquium   |
| 2004      | Academy of Management Organizational Computing and Information Systems Doctoral Consortium   |
| 2001      | University of Michigan Interdisciplinary Committee on Organizational Studies Doctoral Student/Faculty Small Grant to study international HIV/AIDS research collaborations in southern Africa (with Prof. Gary Olson) |
| 1991-1995 | Henry Merritt Wriston Fellowship, Lawrence University  |

## **Teaching Experience**

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| 2001-2002 | <i>Graduate Student Instructor, School of Information, University of Michigan, Ann Arbor, MI. Design of User Interfaces and Evaluation of Systems and Services.</i> |
| 1997      | <i>Lecturer, Music Department, State University of New York at Stony Brook, Stony Brook, NY. Introduction to Music.</i>   |
| 1995-1997 | <i>Teaching Assistant, Music Department, State University of New York at Stony Brook, Stony Brook, NY. Remedial Sight-Singing and Introduction to Music.</i>        |

## **Service Activities**

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Guest Editor: Special issue of CSCW journal on “Supporting Scientific Collaboration Through Cyberinfrastructure and e-Science”

Reviewer: Journal of Computer-Mediated Communication (JCMC); Computer Supported Cooperative Work (CSCW) journal; Science, Technology and Human Values (ST&HV); Communications of the ACM (CACM); CSCW: ACM Conference on Computer Supported

Cooperative Work; CHI: ACM Conference on Human Factors in Computing Systems; Academy of Management Annual Meeting, Organizational Communication and Information Systems Division

Local Arrangements Chair, CSCW: ACM Conference on Computer Supported Cooperative Work (2008)

Electronic Publications Chair, CSCW: ACM Conference on Computer Supported Cooperative Work (2004 and 2006)

Program Committee, University of California Institute for Software Research 2006 Graduate Student Research Symposium

Webmaster, Human Computer Interaction Consortium, 2001 - 2006

Web developer, Artifacts & Disclosures: Michigan's LGBT Heritage online exhibit, 2000

Organizing Committee, Alliance for Community Technology workshop on Making Advanced Technology Work for Community Serving Organizations, Ann Arbor, MI, May 2000

Organizing Committee, Relational Practice in Organizations workshop, Ann Arbor, MI, October 1999

Board member, Lavender Information and Library Association, School of Information, University of Michigan, 1999-2001

## **Professional Memberships**

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Association for Computing Machinery (ACM)

Society for Social Studies of Science (4S)