

ALAN JEFFREY WOLF

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University of Wisconsin
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EDUCATION

Doctor of Philosophy, Biology, University of Michigan.

Systematics of the *Rana catesbeiana* species group and the phylogenetic informativeness of anuran vocalizations.

Bachelor of Science, Biology (minors Museum Techniques and Chemistry), University of Wisconsin - Stevens Point.

CURRENT POSITIONS

Assistant Chief Information Officer for Advanced Computing Infrastructure. Office of the Vice Provost for Information Technology and Chief Information Officer. University of Wisconsin - Madison.

Senior Consultant. Academic Technology / Institute for Biology Education. University of Wisconsin - Madison.

INFORMATION TECHNOLOGY PROJECTS

Research Cyberinfrastructure – Interim position under the UW CIO to support campus initiatives in research computing. These initiatives include development of a support unit for shared high performance computing, advanced networking, research data management, and supporting the development of extramural proposals to support campus cyberinfrastructure; three proposals coordinated and co-written for \$1,600,000 in total extramural awards.

Electronic Laboratory Notebooks – Member of campus team to conduct needs analysis, product research & testing, leading campus procurement, and implementation planning; leading to Summer of 2014 implementation.

Information Technology Strategic Planning - Drafted initial strategic planning documents based on the CIO's planning frameworks. Co-led the strategic planning team focused on learning technology support for instructors, recruited team members, finalized project charters. Continued work in advancing IT strategic planning as part of the CIO "Roadmap to service excellence" taskforce.

Use of Digital Learning Materials and Digital Libraries - Led a team of researchers addressing questions of how digital libraries and digital learning materials serve higher education instructors. Co-lead an expanded project to examine student use of digital libraries and digital materials in learning.

Research Support – Examine the research computing landscape at the UW-Madison. Planned and hosted events to increase campus discussion of research computing needs and required actions. Includes the campus data curation working group.

Three Dimensional Scanning & Printing – Operate a service using a Zcorp Z406 color 3D printer and Roland & Next Engine scanners. Manage student staff, consult with users to create 3D models.

Center for Integration of Research, Teaching and Learning – Develop curriculum for a new course for graduate students on teaching with technology. Consult with graduate students on appropriate uses of technology in teaching and learning and supervise student projects.

Curriculum Vitae of Alan Jeffrey Wolf

- Institutional Reaccreditation Self Study** – Global Impact Team documented institutional strengths and identified opportunities for future growth for the University of Wisconsin as a globally connected campus.
- Community of Educational Technology Support** – ComETS is cross-campus grassroots organization whose 300 members support technology to improve teaching and learning through networking, collaboration, and sharing. Served five years on the Steering committee and organized major professional development events including recruiting the New Media Center Annual Conference to Madison.
- ePortfolios** – Lead team of staff piloting the use of ePortfolios. Identify potential users, evaluated potential solutions, and developing project evaluation methodology.
- Institutional Repository** – Serve as liaison for DoIT Academic Technology and potential users to the UW System team implementing a DSpace instance.
- Engage Initiative** – Guide program direction and technology analysis as a member of the Senior IT staff for the program that has the goal to develop instructional technology with the potential to transform teaching and learning.
- iPod Project** – Participated on a national team developing uses of Apple iPods in education. Implemented the use of iPods in Advanced French Phonetics course. Presented results at an Apple sponsored event at the Educause National Conference in Atlanta. This work was reinitiated with participation in Indigo/iTunesU pilot studies.
- MERLOT** – Serve as a member of biology editorial board of this national initiative to develop a repository of digital learning materials. Conduct local events for UW-Madison educators to raise awareness of opportunities to find and disseminate materials.
- Internal IT Grant Consultant and Liaison** – Consult on project development and grant preparation and then serve as a primary consultant during the course of the grant implementation.
- Bio-First-year Interest Groups** – Advised grant staff of this NSF funded project to explore the integration of calculus, chemistry and biology in the first-year student curriculum. Assisted faculty to introduce data analysis technology into the classroom. Coordinated the development of the technology to disseminate project materials nationally.
- Course Management System Evaluation** – Reviewed preliminary candidates as a member of a University of Wisconsin System team charged with selecting a CMS vendor. Evaluated products both for technical merit and instructional utility.
- Networked Media Service Team** – Served as instructional liaison to the service team. Shared expertise in accessibility, video compression, and instructor needs. Provided end-user support in the development of streaming media.
- Software Evaluation and Quality Assurance** – Tested beta software for Discreet (now Autodesk) – Cleaner (both Macintosh and Windows), Totally Hip Software – Live Stage Pro, National Center for Accessible Media-WGBH Boston – Magpie Captioning Software.
- SyMBiosis** – Served as technical advisor to an interdisciplinary group of UW - Madison mathematicians and scientists examining the problem of preparing biology majors. Developed solutions for the group to archive group interactions and materials. Identified technologies and consulted on their use in addressing specific educational problems.
- BioLEARN** – Consulted on technical matters for a University of Wisconsin System PK-16 grant to help high school biology teachers develop materials with the assistance of UW System faculty. Coordinated the development of a web-based database that allowed authoring and presentation of the materials. Taught the participating teachers basic digital material design and consulted on the development of individual projects.
- Transforming Teaching Through Technology (T4)** – Participated in the initial development of the proposal. Served on the hiring committees for T4 staff. Served as a technical advisor for T4 languages project. Served as a staff instructional consultant for the T4 – Biology Project.
- Accessibility** – Developed skills in captioning computer delivered media. Developed awareness and training events for both local and national audiences. Served in both the UW – Madison campus group “E-Curb Cuts” and the DoIT Web accessibility teams.

Curriculum Vitae of Alan Jeffrey Wolf

TEACHING EXPERIENCE

- Program Director, New Media Center Program and Senior Technology Consultant.** Academic Technology / Institute for Biology Education. University of Wisconsin - Madison.
- Instructor.** Effective Teaching with Technology (Inter-CALS 875/Inter L&S 701/EPD 690). University of Wisconsin – Madison (with Howard, Vanderbilt, Texas A&M Universities, and University of Colorado - Boulder).
- Senior Instructional Technology Consultant.** Learning Technology and Distance Education / Center for Biology Education. University of Wisconsin - Madison.
- Instructional Technology Consultant.** Learning Technology and Distance Education / Center for Biology Education. University of Wisconsin - Madison.
- Graduate Assistant.** Development of web-based study materials for introducing animal diversity – <http://animaldiversity.ummz.umich.edu>, University of Michigan. Development of curricular materials for introductory global change course, University of Michigan. Development of software for teaching chordate phylogeny, anatomy and embryology, University of Michigan.
- Course Coordinator.** Chordate anatomy and phylogeny, University of Michigan. 1991. Biology and human affairs (for non-biologists), University of Michigan.
- Teaching Assistant.** Biology and human affairs (for non-biologists), Introductory Biology (for majors), Chordate anatomy and phylogeny, Principles of Systematics, University of Michigan.

RESEARCH EXPERIENCE

- Principal Investigator.** Faculty and student use of digital libraries and digital learning materials
- Natural Area Preservation Specialist – Herpetologist.** City of Ann Arbor Parks Department.
- Research Associate.** Dr. Wesley Brown. Mitochondrial DNA gene order of hemichordates. Department of Biology, University of Michigan.
- Research Assistant.** Greg Schneider. Curatorial assistant in the UMMZ herpetological collection. Herpetology Division, Museum of Zoology, University of Michigan.
- Research Assistant.** Dr. Wesley Brown. Laboratory coordination. Laboratory of Molecular Systematics, Museum of Zoology, University of Michigan.
- Research Assistant.** Dr. Douglas Eernisse. Molecular phylogenetics of chitons. Museum of Zoology, University of Michigan.
- Intern.** Dr. W. Ronald Heyer. Vocalization analysis of South American leptodactylid frogs. National Museum of Natural History, Smithsonian Institution.

AWARDS AND GRANTS

- IT Leaders Program,** MOR Associates, Committee on Institutional Cooperation.
- Student use of digital learning materials: implications for the NSDL,** National Science Foundation – NSDL, Co-PI (with Glenda Morgan, PI), \$424,494.
- Faculty Participation in the NSDL - Lowering the Barriers,** National Science Foundation – NSDL, PI (with McMartin, Manduca, and Morgan), \$356,400.
- Physical models in teaching structure and function of biological macromolecules to undergraduates.** National Science Foundation – CCLI, Co-PI (with David Nelson, PI), \$200,909.
- Academic Staff Development Award,** University of Wisconsin – Madison.
- Rackham Doctoral Fellowship,** University of Michigan.
- Museum of Zoology Research Grant,** University of Michigan.
- Doctoral Improvement Grant,** University of Michigan.
- Peter Olaus Okkelberg Award,** University of Michigan.
- Block Grant,** University of Michigan.
- Rackham Travel Grant,** University of Michigan.

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Chancellor's Leadership Award, University of Wisconsin - Stevens Point.

Eagon Biological Research Award, University of Wisconsin - Stevens Point.

Outstanding Undergraduate Science Research Award, Sigma Xi, University of Wisconsin - Stevens Point.

PROFESSIONAL ASSOCIATIONS (CURRENT AND PAST)

University of Wisconsin - Madison University Library Committee - Provost's Appointment

DMPTool (Data Management Plan Tool) Advisory Board

Coalition for Academic Scientific Computation - Institutional Representative

New Media Consortium 2011 Annual Conference – Conference Chair

Horizon Report Advisory Committee

New Media Consortium Directors

Educause

National Science Digital Library

Center for Integration of Research, Teaching and Learning

Annual Conference on Distance Teaching Learning Planning Committee

University of Wisconsin – Madison Annual Teaching & Learning Symposium Planning Committee

Academic Intersections (eJournal) Editorial Board

Society of Systematic Biologists

Society for the Study of Amphibians and Reptiles

Herpetologist's League

PUBLICATIONS

Dziuban, C., F. McMartin, G. Morgan, J. Morrill, P. Moskal, A. Wolf, 2013. Examining Student Information Seeking Behaviors in Higher Education. *Journal of Information Fluency*, 2(1):36-54.

<http://if.ucf.edu/if%20journal/docs/journal%20of%20info%20fluency%202013-volume%202.pdf>

Morgan, G and A. Wolf, 2009. Issues in Refining Digital Library User Surveys for General Versus Specialized Audiences. In: *JCDL 2009 Workshop Report: Lightweight User-Friendly Evaluation Knowledge for Digital Librarians* (eds Khoo, Buchanan, and Cunningham) *D-Lib Magazine*, 15 (7/8). doi:10.1045/july2009-khoo

McMartin, F., E. Iverson, A. Wolf J. Morrill, G. Morgan, C. Manduca. 2008. The Use of Online Digital Resources and Educational Digital Libraries in Higher Education. *International Journal on Digital Libraries*, 9(1):65-79.

Kelley, Daniel J., Mohammed Farhoud, M. Elizabeth Meyerand, David L. Nelson, Lincoln F. Ramirez, Robert J. Dempsey, Alan J. Wolf, Andrew L. Alexander, Richard J. Davidson, 2007. Creating Physical 3D Stereolithograph Models of Brain and Skull. *PLoS ONE* 2(10): e1119. doi:10.1371/journal.pone.0001119.

Wolf, A., F. McMartin, E. Iverson, C. Manduca, J. Morrill, and G. Morgan. 2007. "Use of online digital learning materials and digital libraries: comparison by discipline" *Proceedings of the 2007 conference on Digital libraries*, ACM Press, New York. p 500.

McMartin, F., A. Wolf, E. Iverson, C. Manduca, J. Morrill, and G. Morgan. 2007. "What do faculty need and want from digital libraries?" *Proceedings of the 2007 conference on Digital libraries*, ACM Press, New York. p 493.

Moses, Gregory, Barbara Ingham, Katherine Barnicle, Jake Blanchard, Jan Cheetham, Sandra Courter, Elizabeth DeVos, Margaret Immendorf, Michael Litzkow, Gina Svarovsky, and Alan Wolf (2006), "Effective Teaching with Technology." *Proceedings of the 36th ASEE/IEEE Frontiers in Education Conference*, T1G-7-11. <http://fie.engrng.pitt.edu/fie2006/papers/1355.pdf>

McMartin, F., E. Iverson, C. Manduca, A.J. Wolf, and G. Morgan. 2006. "Factors Motivating Use of Digital Libraries." *Proceedings of the 6th ACM/IEEE-CS joint conference on Digital libraries*, ACM Press, New York. pp 254-255.

Curriculum Vitae of Alan Jeffrey Wolf

- Wolf, Alan J., Ellen Iverson, Flora McMartin, Cathy Manduca, Glenda Morgan. 2005. Understanding Faculty Needs of Digital Resources and Libraries. In: *Studying Digital Library Users in the Wild* (Khoo and Ribes), *D-Lib Magazine*, 11:7/8.
- Burke, R. L. , T. Leuteritz, and A. J. Wolf. 1996. Phylogenetic relationships of emydine turtles. *Herpetologica*, 52(4):572-584.
- Jones, Thomas R., Arnold G. Kluge, and Alan J. Wolf. 1993. When theories and methodologies clash: a phylogenetic reanalysis of the North American ambystomatid salamanders (Caudata, Ambystomatidae). *Systematic Biology*, 42(1):92-102.
- Kluge, Arnold G. and Alan J. Wolf. 1993. Cladistics: what's in a word. *Cladistics*, 9:183-199.
- Heyer, W. Ronald and Alan J. Wolf. 1989. *Physalaemus crombiei* (Amphibia: Leptodactylidae), a new frog species from Espirito Santo, Brazil with comments on the *P. signifer* group. *Proceedings of the Biological Society of Washington*, 102:500-506.

WEBSITES AND SOFTWARE

- Jeanne, R. et al. 2003. *Connecting Concepts: Interactive Lessons in Biology*.
<http://ats.doit.wisc.edu/biology/index.html>.
- Bundy, B., T. Dugdale, D. LaValley, A. Wolf. 2002. Audio and Video Series: Delivering Multimedia Content to Students. <https://academictech.doit.wisc.edu/help/audio-video-course>
- Kluge, Arnold G. and Alan J. Wolf. 1990. SYSTACK: the natural filing system. Distributed by the authors (available on request).

LECTURES AND PRESENTATIONS

- Providing New Mobile Options for Managing Research Data. Mobile Applications Driving Data Efficiencies Webinar, The Scientist Webinar Series June, 2014
- Networking innovation to support friction-free research. Future Technologies Conference. Madison, WI April 2013.
- Free Range Learners: Student Digital Resource Seeking Behavior and Usage. NMC 2012 Annual Conference. Cambridge, MA. June, 2012 (with G. Morgan).
- How Students Use Digital Resources in Their Learning. Educause Midwest Regional Conference 2012. Chicago, IL. March 2012 (with G. Morgan and J. Morrill).
- Understanding Student Use of Digital Learning Resources. Educause Learning Initiative 2012 Annual Conference, Austin, TX. February, 2012 (with G. Morgan and P. Moskal).
- Evidence of Impact: Assessing Learning Innovations, Practices, Technologies. Educause Learning Initiative 2012 Annual Conference, Austin, TX. February, 2012 (with G. Morgan and P. Moskal).
- How to Design and Conduct Good Research and Evaluation Studies in IT and Library Settings. Educause Annual Conference, Philadelphia, PA. October 2011 (with C. Dziuban, G. Morgan, F. McMartin, J. Morrill, and P. Moskal).
- Student Use of Digital Learning Materials. New Media Consortium Annual Conference. Madison, WI. June, 2011 (with G. Morgan).
- The Latest in E-learning: The Horizon Report 2011. Wisconsin TECNE Five Year Conference. Green Bay, WI. April 2011.
- What role should technology play in monitoring academic integrity? 2nd Annual Health Sciences Teaching Symposium, Madison, WI. January 2011.
- Student Use of the NSDL, NSDL Annual Meeting, Washington, DC. November, 2010 (with G. Morgan, F. McMartin, J. Morrill, P. Moskal and C. Dziuban).
- Research and Evaluation Methods for Librarians and Information Technology Professionals. Educause Annual Meeting, Anaheim, CA. October, 2010 (with G. Morgan and F. McMartin).
- Teaching Future Faculty to Teach Effectively with Technology. New Media Consortium Annual Meeting, Anaheim, CA. June 2010.
- Developing an Evaluation Toolkit for Pathways and Other Digital Collections. NSDL Annual Meeting. Washington, DC. November, 2009 (W/ G. Morgan).

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- Issues in Refining Digital Library User Surveys for General Versus Specialized Audiences. Joint Conference for Digital Libraries. Austin, TX. June 2009 (With Glenda Morgan).
- Scholarly Publishing with Multimedia (Workshop). New Media Consortium Annual Meeting, Monterey, CA. June 2009 (With Carl Berger, John Ittelson, and Flora McMartin).
- A Non-Librarian's Look at the World of Digital Libraries. University of Wisconsin – Extension. Madison, WI, May 2009.
- Faculty Use of Digital Resources and the Implications for Digital Libraries. Educause Annual Meeting. Orlando, FL. October, 2008 (with Glenda Morgan).
- Meeting Instructors Halfway: Use and Non-use of Digital Learning Materials. New Media Consortium Annual Meeting. Princeton, NJ. June 2008.
- Factors in Encouraging the Use of Digital Learning Materials. BEN scholars workshop 2008. Washington, DC. July 2008 (with Flora McMartin).
- Faculty Use of Digital Materials and Digital Libraries: Survey Results. NSDL Annual Meeting. Washington, DC. November, 2007 (with Flora McMartin, Glenda Morgan, Cathy Manduca, and Ellen Iverson).
- Open Educational Resources: How are Faculty Using Them? Open Education 2007. Logan, UT. September, 2007 (with Flora McMartin).
- Web Enabled Collaboration Tools. WiscNet 3rd Thursday Networking Series. Madison, WI. September, 2007.
- Identifying and Overcoming Barriers to the Use of Digital Learning Materials. IMS Learning Impact 2007 and the Summit on Global Learning Industry Challenges. Vancouver, BC. April 2007.
- Moving Beyond the Innovators: Expanding the Use of Digital Resources in Undergraduate Education. WCET Annual Conference. Portland, OR. November, 2006 (with Diane Harley and Flora McMartin).
- Faculty Use of Digital Materials and Digital Libraries: Survey Design and Preliminary Results. NSDL Annual Meeting. Washington, DC. October, 2006 (with Josh Morrill).
- Rapid Prototyping of Virtual Renditions Using Segmented Micro Imaging Data. The Society for Molecular Imaging 5th Annual Meeting. Waikoloa, HI. August, 2006 (with Mohammed Farhoud, Jamey Weichert, David Nelson).
- What Faculty Seek in Digital Libraries and What Stops Them? MERLOT International Conference. Ottawa, ON, August, 2006.
- Is MERLOT Really That Good? MERLOT International Conference. Ottawa, ON, August, 2006 (with Jeff Bell, Jim Bidlack, Scott Cooper, Marty Zahn).
- Faculty respond: “How do you find and use online teaching materials?” Symposium on Technology in Undergraduate Education. Cambridge, MA. June 2006.
- Factors Motivating Use of Digital Libraries. Joint Conference on Digital Libraries 2006. Chapel Hill, NC. June 2006 (with Flora McMartin).
- How can we help faculty find materials that engage students? Educause Learning Initiative Annual Meeting. San Diego CA. January 2006 (with Glenda Morgan and Flora McMartin).
- Users and uses of the NSDL. National Science Digital Library Annual Meeting. Denver, CO. November 2005 (with Cathy Manduca and Wes Shumar).
- What do faculty need from digital libraries? MERLOT International Conference, Nashville, TN. July 2005 (with Ellen Iverson, Glenda Morgan, and Flora McMartin).
- Changing course management systems (IV): optimizing the selection and planning process. MERLOT International Conference, Nashville, TN. July 2005 (with Phil Hill, Gouri Banerjee, David Megill).
- Digital portfolio and pervasive computing. Apple Digital Campus Leadership Institute, Columbia, MO. April 2005 (with Steve Acker and Brian Stone).
- Preparing future faculty to teach effectively with technology. Educause Midwest 2005, Chicago, IL. March 2005 (with Gina Svarovsky).
- Preparing future faculty to participate in the digital library community. MERLOT International Conference, Costa Mesa, CA. August 2004 (with Flora McMartin).

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- Technology: a instrument of contemporary & multidisciplinary literacy. 2004 Annual Teaching and Learning Symposium, Madison WI. May 2004 (with Jo Ann Carr).
- Research Computing Support at the University of Wisconsin - Madison. Common Solutions Group, Charlottesville, VA. May 2004 (with John Holt).
- Collaboratively developing an online consulting tool. CIC TechForum 2003, Madison, WI. October 2003 (with Angel Hernandez, Karin Riggs and Krishna Madhavan).
- Digital repositories and faculty development: What are strategies to encourage faculty to share, adopt and adapt resources. MERLOT International Conference, Vancouver, BC. August 2003 (with Glenda Morgan).
- Using digital learning materials in your teaching: digital libraries and pedagogical strategies (3 day workshop). University of Wisconsin System Faculty College, Richland Center, WI. June 2003 (with Glenda Morgan and Scott Cooper).
- Digital repositories and faculty development: Strategies to encourage faculty to share, adopt and adapt resources. Educause Midwest 2003, Chicago IL. April 2003 (with Glenda Morgan).
- Providing discipline specific learning technology support: adapting a program from the sciences to the humanities. Educause Midwest 2003, Chicago IL. April 2003 (with David Elderbrock).
- Technology in science instruction. Curriculum Reform Institute – Women in Science Program. Oshkosh, WI. June 2002.
- Introduction to MERLOT. Advancing the Practice of Teaching in the Biological Sciences Through Scholarship – University of Wisconsin System Conference, Madison, WI. November 2001.
- Captioning computer delivered video. 17th Annual Conference on Distance Teaching & Learning, Madison, WI. August 2001.
- Using Protein Explorer (2 day workshop). University of Wisconsin – Madison, Madison, WI. July 2001 (with Eric Martz and Jean-Yves Sgro).
- A posteriori analysis of phylogenetic data. Biological sequence analysis. University of Wisconsin - Madison, Madison, WI, November, 2000, November 2002, November, 2004.
- BioLEARN: Linking BioNet and BioWeb to Create a Statewide Educational Resource. Grants Dissemination Conference, University of Wisconsin System, Madison, WI. October 2000 (with Jane Harris Cramer, Kevin Niemi, and Van Valasky).
- Captioning computer delivered video. 16th Annual Conference on Distance Teaching & Learning, Madison, WI. August 2000.
- BioLEARN: Developing resources for K-12 instruction (3-day workshop). University of Wisconsin System, Madison, WI. July 2000 (with Jane Cramer, Scott Cooper and Kevin Niemi).
- Redesigning introductory biology curriculum with technology. New Media Centers National Meeting, University of Virginia, Charlottesville, VA. June 2000.
- Introduction to anuran communication, Terrestrial Vertebrate Natural History, University of Wisconsin - Madison, May 2000, May 2001.
- Using technology in teaching college biology. Teaching College Biology, University of Wisconsin - Madison, Madison, WI. June 1999; November, 1999; June 2000; December, 2000 June 2001; December, 2001.
- Preparing your web site for CD. 15th Annual Conference on Distance Teaching & Learning, Madison WI. August 1999.
- Evolution of nuclear and mtDNA in the *Rana catesbeiana* species group. Joint meeting of the Society for the Study of Evolution, The American Society of Naturalists, and The Society of Systematic Biologists, University of Wisconsin - Madison, July 1999 (with Wesley M. Brown).
- Evolution of the advertisement vocalizations of North American bullfrogs. Joint meeting of the Society for the Study of Evolution, The American Society of Naturalists, and The Society of Systematic Biologists, University of Wisconsin - Madison, July 1999.
- BioLINK: developing resources for K-12 instruction (3-day workshop). University of Wisconsin System. Madison, WI. July 1999 (with Jane Cramer, Scott Cooper and Kevin Niemi).
- Finding and evaluating web based resources. University of Wisconsin - Whitewater, WI. April 1999.

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- Systematics of the *Rana catesbeiana* species group based on the mitochondrial ND2 gene and the hybridization of *R. clamitans* and *R. okaloosae*. American Society of Ichthyology and Herpetology, University of Washington, Seattle, WA. August 1997 (with Wesley Brown).
- Total evidence and the phylogenetic informativeness of anuran vocalizations: an example from North American bullfrogs. St. Mary's College of Maryland, St. Mary's City, MD. March, 1997.
- Systematics of the North American bullfrogs (*Rana catesbeiana* species group) and the phylogenetic utility of anuran vocalizations. Society for the Study of Amphibians and Reptiles 39th Annual Meeting, University of Kansas, Lawrence, KS. July, 1996.
- Evolution of the advertisement call of the *Rana catesbeiana* species group. Joint Meeting of the Herpetologist's League and the Society for the Study of Amphibians and Reptiles, University of Georgia, Athens, GA. July 1994.
- SYSTACK: a HyperCard application in comparative biology. Tenth annual meeting of the Willi Hennig Society, University of Toronto. July 1991. (with Arnold Kluge).