

XIAOLONG (LUKE) ZHANG

12/2011

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CURRENT POSITION

- Associate Professor July, 2011 – present
The Pennsylvania State University, University Park, Pennsylvania
College of Information Sciences and Technology (IST)

EDUCATION

- University of Michigan, Ann Arbor, Michigan
Ph.D., Information Science: Human-Computer Interaction (HCI), 2003
- Tsinghua University, Beijing, China
M.E., 1994
- Tsinghua University, Beijing, China
B.E., 1992

PROFESSIONAL EXPERIENCE

- Assistant Professor July, 2005 – June, 2011
The Pennsylvania State University, University Park, Pennsylvania
College of Information Sciences and Technology (IST)
- Assistant Professor August, 2003 – June, 2005
University of Arizona, Tucson, Arizona
School of Information Resources and Library Science (SIRLS)

GENERAL RESEARCH INTERESTS

- Multiscale information visualization, 3D virtual environments, spatial cognition and wayfinding, visualization-based knowledge acquisition and sensemaking, social network analysis and visualization, mobile user interfaces.

PUBLICATIONS

Refereed Journal Papers (Supervised graduate students in *italic*)

- J-14 Jiang, Y., Tian, F., Wang, X., **Zhang, X.**, Dai, G., & Wang, H. (2012). "Understanding, Manipulating and Searching Hand-Drawn Concept Maps," *ACM Transactions on Intelligent Systems and Technology*. Vol. 3, No.1.
- J-13 *Gou, L., & Zhang, X.* (2011). "TreeNetViz: Revealing Patterns of Networks over Tree Structures," *IEEE Transactions on Visualization and Computer Graphics*. Forthcoming. Vol. 17, No. 12.
- J-12 Ren, L., Zhang, L., Tao, F., **Zhang, X.**, Luo Y., & Zhang, Y. (2011). "A Methodology Towards Virtualisation-based High Performance Simulation Platform Supporting Multidisciplinary Design of Complex Products," *Enterprise Information Systems*. Forthcoming. DOI: 10.1080/17517575.2011.592598. Available online on June 27, 2011.

- J-11 Wolf, D., Hyland, J., Simpson, T., & **Zhang, X.** (2011). "The Importance of Training for Interactive Trade Space Exploration: A Preliminary Study of Novice and Expert Users," *Journal of Computing and Information Science in Engineering*. Vol. 11, No. 3, Article 031009-1 (11 pages).
- J-10 Gupta, S., Xu, H., & **Zhang, X.** (2011). "Balancing Privacy Concerns in the Adoption of Location-Based Services: An Empirical Analysis," *International Journal of Electronic Business*. Vol. 9, No. 1/2, pp. 118-137.
- J-9 Gou, L., Zhang, S., Wang, J., Chen, K. Giles, C. L., & **Zhang, X.** (2011). "TagNet: Supporting the Exploration of Knowledge Structures of Social Tags with Multiscale Network Visualization," *International Journal of Advanced Intelligence*, Vol. 3, No. 1, pp. 67-93
- J-8 Squicciarini, C. A., Xu, H., & **Zhang, X.** (2011). "CoPE: Enabling Collaborative Privacy Management in Online Social Networks," *Journal of the American Society for Information Science and Technology*, Vol. 62, No. 3, pp. 521-534.
- J-7 **Zhang, X.**, Simpson, T., Frecker, M., & Lesieutre, G. (2010). "Supporting Knowledge Exploration and Discovery in Multi-Dimensional Data with Interactive Multiscale Visualization," *Journal of Engineering Design*. Available Online June 23, 2010. DOI: 10.1080/09544828.2010.487260.
- J-6 Ren, L., Tian, F., **Zhang, X.**, & Zhang, L. (2010). "DaisyViz: A Model-based User Interface Toolkit for Interactive Information Visualization Systems," *Journal of Visual Languages and Computing*, Vol. 21, No. 4, 209-229.
- J-5 **Zhang, X.** (2009). "Multiscale Traveling: Crossing the Boundary between Space and Scale," *Virtual Reality*, Vol. 13, No. 2, pp. 101-115.
- J-4 Wu, A., Zhang, W., & **Zhang, X.** (2009). "Evaluation of Wayfinding Aids in Virtual Environment," *International Journal of Human-Computer Interaction*, Vol. 25, No. 1, pp. 1-21.
- J-3 **Zhang, X.** (2008). "A Multiscale Progressive Model on Virtual Navigation," *International Journal of Human-Computer Studies*, Vol. 66, No. 4, pp. 243-256.
- J-2 **Zhang, X.** (2007). "M²S Maps: Supporting Real-World Navigation with Mobile VR," *Virtual Reality*, Vol. 11, No. 2-3, pp. 161-173.
- J-1 **Zhang, X.**, & Furnas, G. W. (2005). "mCVEs: Using Cross-Scale Collaboration To Support User Interaction With Multiscale Structures," *PRESENCE: Teleoperators and Virtual Environments*, Vol. 14, No. 1, pp. 31-46.

Peer Reviewed Conference Proceedings (Supervised graduate students in *italic*)

- C-32 Gou, L., You, F., Guo, J., Wu, L., & **Zhang, X.** (2011). "SFViz: Interest-based Friends Exploration and Recommendation in Social Networks," In *Proceedings of the 2011 Visual Information Communication - International Symposium (Hong Kong, China, August 04 – 05, 2011)*. VINCI '11. ACM, New York, NY, Article 15.
- C-31 Tian, F., Cao, X., Lv, F., Dai, G., **Zhang, X.**, & Wang, H. (2011). "Empirical Studies of Pen Tilting Performance in Pen-based User Interfaces," In *Proceedings of the 2011 Visual Information Communication - International Symposium (Hong Kong, China, August 04 – 05, 2011)*. VINCI '11. ACM, New York, NY, Article 8.

- C-30 Wu, A., Yan, X., & **Zhang, X.** (2011). "Geo-Tagged Mobile Photo Sharing In Collaborative Emergency Management," In Proceedings of the 2011 Visual Information Communication - International Symposium (Hong Kong, China, August 04 – 05, 2011). VINCI '11. ACM, New York, NY, Article 7.
- C-29 Chen, H., Gou, L., Zhang, X., & Giles, C. L. (2011). "Capturing Missing Edges in Social Networks Using Vertex Similarity," In Proceedings of the 6th International Conference on Knowledge Capture (Banff, Alberta, Canada, June 26 - 29, 2011). K-CAP 2011. ACM, New York, NY, pp. 195-196
- C-28 Chen, H., Gou, L., **Zhang, X.**, & Giles, C. L. (2011). "CollabSeer: A Search Engine for Collaboration Discovery," In Proceedings of the 11th ACM/IEEE-CS Joint Conference on Digital Libraries (Ottawa, ON, Canada, June 13 - 17, 2011). JCDL '11. ACM, New York, NY, pp. 231-240.
- C-27 Lv, F., Tian, F., Jiang, Y., Cao, X., Luo, W., Li, G., **Zhang, X.**, Dai, G., Wang, H. (2011). "ShadowStory: Creative and Collaborative Digital Storytelling Inspired by Cultural Heritage," In Proceedings of the 29th ACM Conference on Human Factors in Computing Systems (Vancouver, Canada, May 07 - 12, 2011). CHI '11. ACM, New York, NY, pp. 1919-1928.
- C-26 Shi, P., Xu, H., & **Zhang, X.** (2011). "Informing Security Indicator Design in Web Browsers," In Proceedings of the iSchools 2011 Conference (Seattle, Washington, USA, February 08 – 01, 2010). iConference '11, pp. 569-575.
- C-25 Gou, L., Zhang, S., Wang, J., Chen, K. Giles, C. L., & **Zhang, X.** (2010). "TagNetLens: Visualizing Knowledge Structures with Social Tags," In Proceedings of the 2010 Visual Information Communication - International Symposium (Beijing, China, September 28 - 29, 2010). VINCI '10. ACM, New York, NY, pp. 97-105.
- C-24 Wu, A., **Zhang, X.**, & Cai, G. (2010). "An Interactive Sensemaking Framework for Mobile Visual Analytics," In Proceedings of the 2010 Visual Information Communication - International Symposium (Beijing, China, September 28 - 29, 2010). VINCI '10. ACM, New York, NY, pp. 133-141.
- C-23 Gou, L., **Zhang, X.**, Chen, H., Kim, J., & Giles, C. L. (2010). "Social Network Document Ranking," In Proceedings of the 10th ACM/IEEE-CS Joint Conference on Digital Libraries (Surfers Paradise, Australia, June 21 - 25, 2010). JCDL '10. ACM, New York, NY, pp. 313-322.
- C-22 Gou, L., Chen, H., Kim, J., **Zhang, X.**, & Giles, C. L. (2010). "SNDocRank: Document Ranking based on Social Networks," In Proceedings of the 19th International Conference on World Wide Web (Raleigh, North Carolina, USA, April 26 - 30, 2010). WWW '10. ACM, New York, NY, pp. 1103-1104.
- C-21 Gou, L., Kim, J., Chen, H., **Zhang, X.**, & Giles, C. L. (2010). "SNDocRank: a Social Network-Based Search Ranking," In Proceedings of the International Conference on Multimedia Information Retrieval (Philadelphia, Pennsylvania, USA, March 29 - 31, 2010). MIR '10. ACM, New York, NY, pp. 367-376.
- C-20 Jiang, Y., Tian, F., Wang, H., **Zhang, X.**, & Dai, G. (2010). "Intelligent Understanding of Handwritten Geometry Theorem Proving," In Proceeding of the 14th International Conference on Intelligent User Interfaces (Hong Kong, China, February 07 - 10, 2010). IUI '10. ACM, New York, NY, pp. 119-128.

- C-19 Wu, A., **Zhang, X.**, Carroll, J. M., & Klippel, A. (2010). "Sensemaking in the Space: An Alternative Design Perspective for Mobile Navigation Systems," In Proceedings of the iSchools 2010 Conference (Urbana-Champaign, Illinois, USA, February 03 – 06, 2010). iConference '10, pp. 570-571.
- C-18 Wolf, D., Simpson, T., & **Zhang, X.** (2009). "A Preliminary Study of Novice and Expert Users' Decision-Making Procedures during Visual Trade Space Exploration," In Proceedings of the ASME Design Engineering Technical Conferences-Design Automation Conference (San Diego, California, USA, August 30 - September 2, 2009). DETC2009/DAC-87294.
- C-17 **Zhang, X.**, Simpson, T., Frecker, M., & Lesieutre, G. (2009). "Supporting Trade Space Exploration of Multi-Dimensional Data with Interactive Multi-Scale Nested Clustering and Aggregation," In Proceedings of the ASME Design Engineering Technical Conferences-Design Automation Conference (San Diego, California, USA, August 30 - September 2, 2009). DETC2009/DAC-87045.
- C-16 Gou, L., Kim, J., Chen, H., Collins, J., Goodman, M., **Zhang, X.**, & Giles, C. L. (2009). "MobiSNA: A Mobile Video Social Network Application," In Proceedings of the 8th ACM International Workshop on Data Engineering for Wireless and Mobile Access (Providence, Rhode Island, June 29, 2009). MobiDE '09. ACM, New York, NY, pp. 53-56.
- C-15 Wu, A., & **Zhang, X.** (2009). "Identifying Proper Scales on Digital Maps for In-Vehicle Navigation Systems," In Proceedings of the 5th International Conference on Universal Access in Human-Computer Interaction. Part III: Applications and Services (San Diego, California, USA, July 19 - 24, 2009). C. Stephanidis, Ed. Lecture Notes in Computer Science, Vol. 5616. Springer-Verlag, Berlin, Heidelberg, pp. 262-270.
- C-14 Wu, A., **Zhang, X.**, Convertino, G., & Carroll, J. M. (2009). "CIVIL: Support Geocollaboration with Information Visualization," In Proceedings of the ACM 2009 International Conference on Supporting Group Work (Sanibel Island, Florida, USA, May 10 - 13, 2009). GROUP '09. ACM, New York, NY, pp. 273-276.
- C-13 Jiang, Y., Tian, F., Wang, X., **Zhang, X.**, Dai, G., & Wang, H. (2009). "Structuring and Manipulating Hand-Drawn Concept Maps," In Proceedings of the 13th International Conference on Intelligent User Interfaces (Sanibel Island, Florida, USA, February 08 - 11, 2009). IUI '09. ACM, New York, NY, pp. 457-462.
- C-12 Wu, A., **Zhang, X.**, & Zhang, W. (2008). "GPS – Secure Against Getting Lost, or More Danger," In Proceedings of the 2008 International Conference on Cyberworlds (Hangzhou, China, September 22 - 24, 2008). IEEE Computer Society, Washington, DC, pp. 501-505.
- C-11 Klippel, A., Li, R., Wu, A., & **Zhang, X.** (2008). "Interactive, Multiscale YAH Maps," In Proceedings of the Workshop of "You-Are-Here Maps: Creating a Sense of Place through Map-like Representations", held in conjunction with the International Conference Spatial Cognition 2008 (Freiburg, Germany, September 15 – 19, 2008), pp. 11-20.
- C-10 **Zhang, X.**, Qu, Y., Giles, C., & Song, P. (2008). "CiteSense: Supporting Sensemaking of Research Literature," In Proceeding of the 26th ACM Conference on Human Factors

- in Computing Systems (Florence, Italy, April 05 - 10, 2008). CHI '08. ACM, New York, NY, pp. 677-680.
- C-9 Tian, F., Xu, L., Wang, H., **Zhang, X.**, Liu, Y., Setlur, V., & Dai, G. (2008). "Tilt Menu: Using the 3D Orientation Information of Pen Devices to Extend the Selection Capability of Pen-Based User Interfaces," In Proceeding of the 26th ACM Conference on Human Factors in Computing Systems (Florence, Italy, April 05 - 10, 2008). CHI '08. ACM, New York, NY, pp. 1371-1380.
- C-8 Convertino, G., Wu, A., **Zhang, X.**, Ganoë, C., Hoffman, B., & Carroll, J. M. (2008). "Designing Group Annotations and Process Visualizations for Role-Based Collaboration," In Proceedings of the 1st International Workshop on Social Computing, Behavioral Modeling, and Prediction (Phoenix, Arizona, USA, April 01 - 02, 2008). SBP '08. Springer-Verlag, New York, pp.197-206.
- C-7 Carroll, J. M., Haynes, S. R., Ritter, F. E., Rosson, M. B., & **Zhang, X.** (2008). "The d-School in the i-School: HCI and Design Research," In Proceedings of the iSchools 2008 Conference (Los Angeles, California, USA, February 28 - March 01, 2008). iConference '08.
- C-6 Wu, A., Zhang, W., Hu, B., & **Zhang, X.** (2007). "Evaluation of Wayfinding Aids Interface in Virtual Environment," In Proceedings of the 12th International Conference on Human-Computer Interaction: Interaction Platforms and Techniques (Beijing, China, July 22 - 27 2007). J. A. Jacko, Ed. Lecture Notes in Computer Science. Springer-Verlag, Berlin, Heidelberg, pp. 700-709.
- C-5 **Zhang, X.** (2005). "Space-Scale Animation: Enhancing Cross-Scale Understanding of Multiscale Structures in Multiple Views," In Proceedings of the 3rd International Conference on Coordinated and Multiple Views in Exploratory Visualization (London, UK, July 05, 2005). CMV '05. IEEE Computer Society, Washington, DC, pp. 109-120.
- C-4 **Zhang, X.**, & Furnas, G. W. (2003). "The Effectiveness of Multiscale Collaboration in Virtual Environments," In Extended Abstract of the 21st ACM Conference on Human Factors in Computing Systems (Ft. Lauderdale, Florida, USA, April 05 - 10, 2003). CHI '03. ACM, New York, NY, pp. 790-791.
- C-3 **Zhang, X.**, & Furnas, G. W. (2002). "Social Interactions in Multiscale CVEs," In Proceedings of the 4th International Conference on Collaborative Virtual Environments (Bonn, Germany, September 30 - October 02, 2002). CVE '02. ACM, New York, NY, pp. 31-38.
- C-2 Furnas, G. W., & **Zhang, X.** (2000). "Illusions of Infinity: Feedback for Infinite Worlds," In Proceedings of the 13th Annual ACM Symposium on User interface Software and Technology (San Diego, California, USA, November 06 - 08, 2000). UIST '00. ACM, New York, NY, pp. 237-238.
- C-1 Furnas, G. W., & **Zhang, X.** (1998). "MuSE: Multiscale Editor," In Proceedings of the 11th Annual ACM Symposium on User interface Software and Technology (San Francisco, California, USA, November 01 - 04, 1998). UIST '98. ACM, New York, NY, pp. 107-116.

Peer Reviewed Book Chapters

- **Zhang, X., & Furnas, G. W.** (2005). "Multiscale Space and Multiscale Place," In E. Davenport, & P. Turner, Eds., *Spaces, Spatiality and Technologies*. Springer, Netherlands, pp. 261-280.

Technical Reports

- Giles, C. L., **Zhang, X., Gou, L.,** Kim, J., & Chen, H. (2009). "MobiSNA: a Mobile Video Social Network Application," White Paper for Alcatel-Lucent.

PRESENTATIONS, TALKS, AND PANELS

- Invited talk on "Visual Analytics of Social Networks" at the Visualization and Visual Computing Group, Peking University, Beijing, China, September, 2011.
- Invited talk on "Design in HCI: Bridging Technology and People" at the Forum on the Frontiers on Interaction Design, SIGCHI China, Sun Yat-Sen (Zhongshan) University, China, June, 2011.
- Talk on "Social Network-based Document Ranking and Recommendation" at the Workshop of Smart Health and Wellbeing, held in the Penn State - Peking University Multi Workshops, May, 2011.
- Invited talk on "The Integration of Interaction Design and Data-Processing Algorithms in Interactive Social Network Analysis" at the College of Information Science and Technology, Beijing Normal University, Beijing, China, March, 2011.
- Invited talk on "Interactive Visualization of Large Data Sets" at the Intelligence Engineering Lab, Institute of Software, Chinese Academy of Sciences, China, May, 2010.
- Invited talk on "Social Network Analysis and Application: An i-School Perspective" at the School of Information Science and Technology, Sun Yat-Sen (Zhongshan) University, Guangzhou, China, May, 2010.
- Invited talk on "Social Network Analysis and Application: An i-School Perspective" at the School of Information Management, Wuhan University, Wuhan, China, May, 2010.
- Panel Talk on "Interactive Visualization of Large Data Sets: Challenges and Some Preliminary Answers" in the Panel of "Visualization and Rich Data Sets" in the 2010 Annual Workshop of Human-Computer Interaction Consortium (HCIC '10), Fraser, Colorado, USA, February, 2010.
- Invited talk on "ScaleNetVis: Towards Social Duality with Content-based Multiscale Social Network Visualization" at NATO Research Task Working Group Workshop on Network Visualization, University Park, Pennsylvania, USA, October, 2009.
- Invited talk on "Support Sensemaking with Visualization and Advanced User Interfaces" at the HCI group, Microsoft Research Asia (MSRA), Beijing, China, June, 2009.
- Invited talk on "Visualization to Support Knowledge Exploration, Acquisition, and Sensemaking" at School of Mass Communication and Design, Sun Yat-Sen (Zhongshan) University, Guangzhou, China, June, 2009.
- Invited talk on "Visualization to Support Knowledge Exploration, Acquisition, and Sensemaking" at College of Informatics, South China Agricultural University, Guangzhou, China, June, 2009.

- Invited talk on “Supporting Interaction with Large Information Structures” at the School of Information Resources and Library Science, University of Arizona, Tucson, Arizona, USA, April, 2008.
- Invited talk on “Making Sense of Complex Information Resources” at the College of Information Science and Technology, Beijing Normal University, Beijing, China, January, 2008.
- Invited talk on “Making Sense of Complex Information Resources” at the Sino-European Usability Center, Dalian Maritime University, Dalian, China, July, 2007.
- Invited talk on “Making Sense of Complex Information Resources” at the Intelligence Engineering Lab, Institute of Software, Chinese Academy of Sciences, China, July, 2007.
- Panel talk on “Visualization-Enabled Information Exploration and Knowledge Acquisition” in the Panel of “Interaction: Beyond Retrieval”, the Annual Meeting of the American Society for Information Science & Technology (ASIS&T), Austin, Texas, USA, November, 2006.
- Invited talk on “Multiscale Navigation in Virtual Environments” at the Virtual Reality and Human Interface Technology Lab, Tsinghua University, Beijing, China, May 2006.
- Invited talk on “Multiscale Collaboration in Virtual Environments: Concepts, Implications, and Evaluations” at the Lab of Engineering Psychology and Human Factors, Institute of Psychology, Chinese Academy of Sciences, Beijing, China, July, 2004.
- Invited talk on “Using Multiscale Technology to Support User Interactions with Large Information Structures” at the AI Lab, University of Arizona, Tucson, Arizona, USA, May, 2004.
- Invited talk on “Using Multiscale Collaboration to Support Cross-Scale Scientific Research” at Internet Technology Commerce and Design Institute (ITCDI) Collaboration Symposium, University of Arizona, Tucson, Arizona, USA, January, 2004.

RESEARCH GRANTS

External Grants

- Alcatel-Lucent University Innovation Program. “Video Social Network,” Principal investigator (with Lee Giles), September, 2008 – August, 2011.
- National Science Foundation. “New Geometric Methods of Mixture Models for Interactive Visualization,” Co-principal investigator (September 2009 – June 2011), Principal investigator (July 2011 – August 2012).
- National Science Foundation. “EAGER: Spatial Awareness through Sapient Interfaces,” Co-principal investigator, September, 2009 – August, 2012.
- National Science Foundation. “CI-TEAM Implementation Project - A National Engineering Dissection Cyber-Collaboratory,” Co-principal investigator, January, 2007 – December, 2009.

Internal Grants

- Institute for CyberScience of The Pennsylvania State University. “Incorporating Data-Mining and Machine-Learning for Interactive Visual Analytics of Large, Heterogeneous, and Ill-Structured Datasets,” Principal investigator, March, 2011 – February, 2012.

- Research Seed Grant, College of Information Sciences and Technology, the Pennsylvania State University. “Collaborative Visual Analytics of High-Dimensional Data in Virtual Environments,” Principal investigator, March, 2010 – February, 2011.
- Research Seed Grant, College of Information Sciences and Technology, the Pennsylvania State University. “Support Multi-Scale Emergency Management and Planning with Visualization,” Principal investigator, March, 2009 – February, 2010.
- Faculty Summer Research Grant, College of Social and Behavioral Sciences, University of Arizona. “Using Multiscale Technology to Augment Spatial Cognition,” Principal investigator, July, 2004.
- Faculty Small Grants, Office of Vice President for Research, University of Arizona. “Using Multiscale Collaboration to Support Cross-Scale Scientific Research,” Principal investigator, December, 2003 – December 2004.
- Internet Technology Commerce and Design Institute Grant, University of Arizona. “Understanding User Interactions in Multiscale Collaborative Virtual Environments,” Principal investigator, December 2003 – December 2004.

HONORS or AWARDS

- Faculty Marshall for College of Information Sciences and Technology, Penn State University, University Park, 2011.
- Faculty Fellow, Penn State Institute for CyberScience, 2011.
- Nominee, Professor of the Year 2010 for the College of Information Sciences and Technology, Penn State University, University Park.

TEACHING and CURRICULUM DEVELOPMENT

Teaching

The Pennsylvania State University, University Park, Pennsylvania

- IST 210: Organization of Data (2006, 2007, 2008, 2009, 2010).
- IST 220: Networking and Telecommunications (2008,2011).
- IST 402: Emerging Issues and Technologies: Visualization and Visual Analytics (2010)
- IST 489H: Research Methods in Information Sciences and Technology (2010).
- IST 526: Information Visualization (2006, 2008, 2009, 2011).
- IST 590: Doctoral Colloquium (2011).
- IST 594: Social Network and Network Science (2009).

The University of Arizona, Tucson, Arizona

- IRLS 506: Research Methods for Information and Library Science (2005).
- IRLS 588-002/791: Introduction to Information Technologies (2004, 2005).
- IRLS 588-003: Collaborative Information Retrieval (2004).

Curriculum Development

The Pennsylvania State University, University Park, Pennsylvania

- Proposed and Created a Graduate Course on HCI Technologies (IST 526)
- Contributed and Completed the Development of Quantitative and Computational Research Method Course for Graduate Students in IST.

- Contributed to the Development of the Usability Engineering Track in IST.
- Contributed to the Reform of the First-Year Engagement Course in IST.

The University of Arizona, Tucson, Arizona

- Developed a technology curriculum for the Master's Program in Library and Information Science (LIS) at the School of Information Resources and Library Science.
- Proposed and Created a Graduate Course of the Introduction to Information Technologies for LIS Master's Students.
- Proposed and Created a Graduate Course of Database Management for LIS Master's Students.
- Proposed and Created a Graduate Seminar of Collaborative Information Retrieval for LIS Doctoral Students.

SERVICE ACTIVITIES

Review Activities

- Applied Ergonomics, Elsevier.
 - ACM Transactions on Knowledge Discovery from Data, ACM.
 - Data & Knowledge Engineering, Elsevier.
 - IEEE Transactions on Visualization and Computer Graphics, IEEE Computer Society.
 - Information Visualization, Palgrave.
 - International Journal of Geographical Information Science
 - International Journal of Human Computer Studies, Elsevier.
 - Journal of Cognitive Engineering and Decision Making, Human Factors and Ergonomics Society.
 - Journal of the American Society for Information Science and Technology
 - Spatial Cognition and Computation, Taylor & Francis.
 - The Electronic Library, Emerald
-
- ACM Conference on Human Factors in Computing Systems, 2011 (CHI '12).
 - International Conference on Intelligent User Interfaces, 2010 (IUI '12).
 - ACM Conference on Human Factors in Computing Systems, 2011 (CHI '11).
 - IEEE Conference on Visual Analytics Software and Technology, 2010 (VAST '10).
 - IEEE Conference on Information Visualization, 2010 (InfoVis '10).
 - ACM Conference on Computer Supported Cooperative Work, 2010 (CSCW '10).
 - ACM Conference on Human Factors in Computing Systems, 2010 (CHI '10).
 - International Conference on Intelligent User Interfaces, 2010 (IUI '10).
 - ACM Conference on Human Factors in Computing Systems, 2009 (CHI '09).
 - IFIP TC13 Conference in Human Computer Interaction, 2009 (INTERACT '09).
 - International Conference on Complex, Intelligent and Software Intensive Systems, 2009 (CISIS '09).
 - ACM Conference on Human Factors in Computing Systems, 2008 (CHI '08).
 - ACM Symposium on User Interface Software and Technology, 2007 (UIST '07).
 - ACM Conference on Human Factors in Computing Systems, 2006 (CHI '07).
 - Graphics Interface Conference, 2007 (GI '07).

- ACM Conference on Human Factors in Computing Systems, 2005 (CHI '05).
- ACM Conference on Human Factors in Computing Systems, 2004 (CHI '04).
- ACM Symposium on User Interface Software and Technology, 1998 (UIST '98).
- Book Proposal Review for SAGE Publications Inc., 2010.
- Book Proposal Review for CRC Press, Taylor & Francis, 2009.
- Book Proposal Review for Cambridge University Press, 2005.

Service to University

- Member, Graduate Advisory Committee, College of Information Sciences and Technology, the Pennsylvania State University, University Park, 2011 – present.
- Member, Graduate Recruiting Committee, College of Information Sciences and Technology, the Pennsylvania State University, University Park, 2011 – present.
- Chair, IST 210 Course Committee, 2010 – present.
- Chair, IST 489H Course Committee 2010 – present.
- Member, SRA 468 Course Committee, 2010– present.
- Member and the Leader of the “Interactive Environments for Analysis” quad, CyberScience Taskforce, 2010-2011.
- Alternate Representative of the College of IST in Graduate Council, the Pennsylvania State University, University Park, 2008-2011.
- Member, Faculty Advisory Committee, College of Information Sciences and Technology, the Pennsylvania State University, University Park, 2008 – 2010.
- IST 210 Representative, College of Information Sciences and Technology, the Pennsylvania State University, University Park, 2008-present.
- Member, Research Advisory Committee, College of Information Sciences and Technology, the Pennsylvania State University, University Park, 2008 – 2009.
- Member, First Engagement Committee, College of Information Sciences and Technology, the Pennsylvania State University, University Park, 2009.
- Member, Graduate Advisory Committee, College of Information Sciences and Technology, the Pennsylvania State University, University Park, 2006 – 2008.
- Member, Graduate Recruiting Committee, College of Information Sciences and Technology, the Pennsylvania State University, University Park, 2007.
- Member, Colloquium Committee, School of Information Sciences and Technology, the Pennsylvania State University, University Park, 2005 – 2006.
- Member, Advisory Board of Social & Behavioral Sciences Research Institute, College of Social and Behavioral Sciences, University of Arizona, 2004 – 2005.
- Member, Taskforce for the Education and Research Program on Information, Technology and Society, University of Arizona, 2003- 2005.
- Chair, Research Committee, School of Information Resources & Library Science, University of Arizona, 2005.
- Member, Curriculum Committee, School of Information Resources & Library Science, University of Arizona, 2003 – 2005.
- Member, Research Committee, School of Information Resources & Library Science, University of Arizona, 2003 – 2004.

- Member, Doctoral Committee, School of Information Resources & Library Science, University of Arizona, 2003 – 2005.

Service to Discipline and Profession

- Program Co-Chair, the 2011 Visual Information Communication - International Symposium (VINCI '11), August, 2011, Hong Kong.
- Co-Organizer, the Workshop on “Collaborative Privacy Practices in Social Media” in the 2011 ACM Conference on Computer-Supported Cooperative Work (CSCW '11), March, 2011.
- Member, NSF Panel for Social-Computational Systems program, 2011
- Organization Chair, the 2010 Visual Information Communication - International Symposium (VINCI '10), September, 2010, Beijing, China.
- Member, Program Committee, You-Are-Here 2: 2nd Workshop on Spatial Awareness and Geographic Knowledge Acquisition with Small Mobile Devices (YAH2 2010), Workshop held in conjunction with the International Conference Spatial Cognition 2010, August, 2010, Mt. Hood/Portland, Oregon, USA.
- Member, Program Committee, the 2010 IEEE International Conference on Information and Automation (ICIA 2010), June, 2010, Harbin, China.
- Member, Program Committee, You-Are-Here Maps: Creating a Sense of Place through Map-like Representations, Workshop held in conjunction with the International Conference Spatial Cognition 2008, September, 2008, Freiburg, Germany.
- Member, Program Committee, Virtual Reality for Safety and Security, Workshop held in conjunction with the International Conference on Cyberworlds 2008, September, 2008, Hangzhou, China.
- Co-Chair of the Registration Committee, Conference Committee, the 20th ACM Symposium on User Interface and Technology (UIST '07), October, 2007, Newport, Rhode Island, USA.
- Chair of the Registration Committee, Conference Committee, the 19th ACM Symposium on User Interface and Technology (UIST '06), October, 2006, Montreux, Switzerland.
- Co-Chair of the Registration Committee, Conference Committee, the 18th ACM Symposium on User Interface and Technology (UIST 2005), October, 2005, Seattle, Washington, USA.
- Member, the Research Grant Committee of Online Computer Library Center (OCLC), 2005 – 2006.
- Member, NSF Panel for Human-Computer Interaction program, 2004
- Chair, Arizona Chapter, American Society for Information Science and Technology, 2004 – 2005.
- Chair-Elect, Arizona Chapter, American Society for Information Science and Technology, 2003 – 2004.

Other Service

- Judge, International Science and Engineering Fair, 2005.

PROFESSIONAL AFFILIATIONS

- Association for Computing Machinery (ACM)
- International Electrical and Electronics Engineers (IEEE)