

CURRICULUM VITA

Jiajie Zhang, PhD

Dr. Doris L. Ross Professor
Associate Dean for Research
School of Health Information Sciences
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I. CONTACT INFORMATION

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II. EDUCATION

1979 - 1982		Special Program for Gifted Young University of Science & Technology of China
1982 - 1983	BS	Biochemistry & Molecular Biology, Department of Biological Sciences University of Science & Technology of China
1983 - 1986		Master's Program in Biophysics and Neuroscience University of Science & Technology of China
1986 - 1989		Ph.D. Program, Department of Psychology University of California, San Diego
1989 - 1991	MS	Department of Cognitive Science University of California, San Diego
1991 - 1992	PhD	Department of Cognitive Science (World's 1 st PhD in Cognitive Science. Advisor: Donald A. Norman) University of California, San Diego
2000 - 2001		Certificate of Business Administration University of Houston
2002 - 2003		Academic Leadership Development Program Office of Academic Affairs, University of Texas at Houston

III. PROFESSIONAL EXPERIENCE

1992 - 1998		Assistant Professor, Department of Psychology The Ohio State University
1994 - 1998		Center Faculty, Center for Cognitive Science

	The Ohio State University
1996 - 1998	Charter Member, Institute for Ergonomics
	The Ohio State University
1998 - 2005	Associate Professor, School of Health Information Sciences
	University of Texas, Houston
1999 - 2002	Chair, Faculty Governance Organization, School of Health Information Sciences, University of Texas, Houston
2000 - 2001	Associate Research Scientist, Information Technology Research Houston Academy of Medicine – Texas Medical Center Library
2001 - present	Member, Keck Center for Computational and Structural Biology
2002 - present	Associate Dean for Research, School of Health Information Sciences, University of Texas, Houston
2003 - present	Director for Research, Center for Biosecurity & Public Health Informatics Research University of Texas, Houston
2003 - 2007	Training Co-Director at UT Houston, Keck Center/National Library of Medicine Informatics Training Program
2005 - present	Professor, School of Health Information Sciences University of Texas, Houston
2006 - present	Dr. Doris L. Ross Endowed Professor, School of Health Information Sciences University of Texas, Houston
2007 - present	Training Director at UT Houston Site, National Library of Medicine Informatics Training Program for Gulf Coast Consortium

IV. PROFESSIONAL SOCIETIES

American Medical Informatics Association
 Association for Computing Machinery (ACM)
 Cognitive Science Society
 Human Factors Society
 Psychonomic Society

V. AWARDS & HONORS

2002	John P. McGovern Outstanding Teacher Award, University of Texas at Houston,
2002	Recognition of Outstanding Leadership as Chair of Faculty Governance Organization, School of Health Information Science, U. of Texas at Houston
2003	Inducted as Fellow, American College of Medical Informatics
2006	Distinguished Lecturer, Departments of Biomedical Informatics and Computer Science, Arizona State University
2006	Dr. Doris L. Ross Endowed Professorship

VI. GRANTS & CONTRACTS

Current

1. Tony Gorry (PI), Jack Smith (Co-PI), & Site Directors: **Jiajie Zhang** (Training Director for UT Houston Site), Wah Chiu, Monte Pettit, Donald Berry, Rudy Guerra, David Gorenstein. *Biomedical Informatics Training Grant*, National Library of Medicine, 7/07-6/11.
2. Frank C. Arnett (PI) and many others (**Jiajie Zhang** is Co-I for informatics core). *Center for Clinical and Translational Sciences*. NIH/NCCR, 9/1/06-6/30/11).
3. **Jiajie Zhang** (PI of subcontract) & Todd R. Johnson. *Cognition and error management for critical care*. Columbia University, 2/04-1/08. (Subcontract of NLM Grant R01 LM007894-01A1, PI: Vimla L. Patel).
4. **Jiajie Zhang** (Mentor for Jillian Webb). *Medical informatics research training grant*. Keck Center for Computational and Structural Biology/National Library of Medicine, 06/15/07-6/14/10.
5. **Jiajie Zhang** (Co-I of subproject). *Texas Training and Technology for Trauma and Terrorism*. US Army. 9/1/04-9/31/07. (PI: S. Ward Casscells).
6. **Jiajie Zhang** (Mentor for Jung-Wei Chen). *Medical informatics research training grant*. Keck Center for Computational and Structural Biology/National Library of Medicine, 07/01/06-6/30/09.

Completed

1. **Jiajie Zhang** & Todd R. Johnson: *Usability evaluation of Digital EMS*. U.S. Army (DAMD17-01-20054). 3/1/02-6/15/06. (Subproject of Disaster Relief & Emergency Medical Services - DREAMS™ from U.S. Army, PI: Dr. Duke).
2. **Jiajie Zhang** (Mentor for Muhammad Walji). *Medical informatics research training grant*. Keck Center for Computational and Structural Biology/National Library of Medicine, 01/01/04-12/31/06.
3. **Jiajie Zhang** (PI) and Jack W. Smith. *Evaluating a Merck information system*. Merck. 01/15/06-4/30/06.
4. **Jiajie Zhang** (PI) & Jack W. Smith. *Human-centered intelligent flight surgeon console—Evaluation, Refinement, and Deployment*. NASA, 9/1/04-8/31/05.
5. Todd R. Johnson (Project Leader), **Jiajie Zhang**, & Vimla L. Patel. *Device usability guidelines for patient safety*. Agency for Healthcare Research & Quality, Center of Excellence Grant (P01 HS 11544-01), 9/1/01-8/31/04. (One of five projects of the \$7.2 million Center Grant on Patient Safety, PI, Eric Thomas, UTH Medical School,).
6. **Jiajie Zhang** (Mentor for Julie Brixey). *Medical informatics research training grant*. Keck Center for Computational and Structural Biology/National Library of Medicine, 03/01/02-02/28/05.
7. **Jiajie Zhang** (Mentor for Zhong Xie). *Human-centered computing in clinical research data management system*. Keck Fellowship/Baylor College of Medicine, 01/01/03-12/31/04.
8. **Jiajie Zhang** (PI), Kathy A. Johnson, Jack W. Smith, Jane Malin, Patrick McGinnis, Francis Mount, Phyllis McCulley. *Human-centered intelligent flight surgeon console*. NASA (NCC 2-1234), 3/01-5/04.
9. **Jiajie Zhang** (PI), Vimla L. Patel (Co-PI), Todd R. Johnson, & James P. Turley (Co-Is): *Toward a Taxonomy of Medical Error in Critical Care: A Cognitive Analysis of Infusion*

- Pump Usability*. ARMY, National Medical Technology TestBed (DAMD17-97-27016). 4/1/02-3/31/03.
10. **Jiajie Zhang** (Mentor for Yang Gong). *Human-centered distributed information design*. Keck Fellowship/Baylor College of Medicine, 01/01/02-12/31/03.
 11. Hongbin Wang (PI), **Jiajie Zhang** (Co-I), Todd R. Johnson (Co-I). *Modeling Spatial Cognition*. Office of Naval Research, 10/15/00-10/14/03.
 12. **Jiajie Zhang** (PI). Professional Services for Houston Academy of Medicine/Texas Medical Center Library. 4/1/00-8/31/01.
 13. **Jiajie Zhang** (Mentor for Yang Gong). *Teaching fellowship*. Texas Women's University. 09/01/01-08/31/02.
 14. Johnson, Todd R. (PI), **Zhang, Jiajie** (Co-PI), & Spitz, Margaret (Co-PI), *Redesign of a Genetics Tracking Program to Improve Ease of Use and Reduce Errors*, Texas Higher Education Coordinating Board (011618-0077-1999), 1/1/00-8/31/02.
 15. Kathy A. Johnson & **Jiajie Zhang**. *Evaluation of Merck Source*. Merck & CO, Inc. 10/1/01-11/1/01.
 16. **Jiajie Zhang** & Todd R. Johnson. *Usability Evaluation of Prometheus Online Teaching Software*. Prometheus, Inc. 11/00-3/01.
 17. **Jiajie Zhang**, Kathy A. Johnson, & Jack W. Smith. *Evaluation of Prototype Merck Medicus*. Merck & Co., Inc., 1/3/01-1/31/01.
 18. **Jiajie Zhang**, Kathy A. Johnson, & Jack W. Smith. *Evaluation of Merck Manual Online*. Merck & Co., Inc., 6/00.
 19. Todd R. Johnson, & **Jiajie Zhang**. Consulting service for AskRed, Inc. 1999-2000.
 20. Vladimir Sloutsky (PI), Todd R. Johnson (Co-I), & **Jiajie Zhang** (Co-I): *The development of understanding in mathematics and science: Cognitive mechanisms and methods of amplification*. James S. McDonnell Foundation, 7/1/98-6/30/02.
 21. Hongbin Wang (PI), **Jiajie Zhang** (Co-I), Todd R. Johnson (Co-I). *Development of Reinforcement Learning Techniques for Efficient Training of Semi-Autonomous Robotic Systems*. NASA Johnson Space Center (NAG9-1247), 7/1/98-6/30/01. 4/1/00-8/31/01.
 22. Todd R. Johnson (PI) & **Jiajie Zhang** (Co-PI): *The development of understanding in mathematics and science: Cognitive mechanisms and methods of amplification*, The Ohio State University, 7/1/98-6/30/02.
 23. Crandell, Sharon (PI), Johnson, Todd R., Mabry, M., Miller, C., Smith, J.W., Turley, J., & **Zhang, J.**, Co-Is, *BabyCam*. Telecommunications Infrastructure Fund Board 5/31/99-4/30/01.
 24. **Jiajie Zhang** (PI) & Todd R. Johnson (Co-PI): *Toward A Cognitive Theory of Direct Interaction*. Office of Naval Research, Cognitive and Neural Sciences & Technology Division (N00014-96-1-0472), 12/1/98-11/30/99.
 25. Todd R. Johnson (PI) & **Jiajie Zhang** (Co-PI): *A Hybrid Learning Architecture for Tactical Decision Making in Dynamic and Uncertain Environments*. Office of Naval Research, Cognitive and Neural Sciences & Technology Division, 12/1/98 - 1/31/99.
 26. Todd R. Johnson (PI) & **Jiajie Zhang** (Co-PI): *A Hybrid Learning Architecture for Tactical Decision Making in Dynamic and Uncertain Environments—Phase 2*, The Ohio State University, 9/1/98-12/31/98.
 27. **Jiajie Zhang** (PI) & Todd R. Johnson (Co-PI): *Toward A Cognitive Theory of Direct Interaction—Phase 2*, The Ohio State University, 9/1/98-1/31/99.

28. Todd Johnson (PI) & **Jiajie Zhang** (Co-PI): Augmentation Equipment Grant, *Requesting an Eye Point-of-Regard Analysis Lab*, Office of Naval Research, Cognitive and Neural Sciences & Technology Division, 7/1/96 - 12/31/98.
29. Todd R. Johnson (PI) & **Jiajie Zhang** (Co-PI): *A Hybrid Learning Architecture for Tactical Decision Making in Dynamic and Uncertain Environments*. Supplementary Grant from the Office of Naval Research, Cognitive and Neural Sciences & Technology Division (N00014-95-1-0241), 1/1/98 - 12/31/98.
30. **Jiajie Zhang** (PI) & Todd R. Johnson (Co-PI): *Toward A Cognitive Theory of Direct Interaction*. Office of Naval Research, Cognitive and Neural Sciences & Technology Division, N00014-96-1-0472, 1/1/96-1/31/99.
31. Todd R. Johnson (PI) & **Jiajie Zhang** (Co-PI): *A Hybrid Learning Architecture for Tactical Decision Making in Dynamic and Uncertain Environments*. Office of Naval Research, Cognitive and Neural Sciences & Technology Division, N00014-95-1-0241, 1/1/95 - 12/31/97.
32. **Jiajie Zhang** (PI): *Distributed Representations in Problem Solving and Reasoning*. Seed Grant, Office of Research, The Ohio State University, 10/92-10/93.

VII. PUBLICATIONS

Journal Articles:

1. Brixey, J.J., Robinson, D.J., Tang, Z., Johnson, T.R., Turley, J.P., Patel, V. L., & **Zhang, J.** (in press). A Study of interruption and workflow in a Level One Trauma Center. *International Journal of Medical Informatics*, 00, 000-000.
2. Hakimzada, A.F., Green, R.A., Sayan, O.R., **Zhang, J.**, & Patel, V.L. (2007, June 7). The nature and occurrence of registration errors in the emergency department, *International Journal of Medical Informatics*.
3. Sun, Y., Wang, H., **Zhang, J.**, & Smith, J. W. (in press). Probabilistic judgment on a coarser scale. *Cognitive Systems Research*, 00, 000-000.
4. Johnson, T. R., Tang, Z., **Zhang, J.**, Turley, J. P., & Patel, V. (in press). Attitudes toward medical device use errors and error prevention. *Joint Commission Journal on Quality and Patient Safety*, 00, 000-000.
5. Laxmisan, A., Hakimzada, Sayan, Green, R. A., **Zhang, J.**, & Patel, V. L. (2007, in press). The multitasking clinician: Decision-making and cognitive demand during and after team handoffs in emergency care. *International Journal of Medical Informatics*, 00, 000-000.
6. Brixey, J.J., Robinson, D.J., Johnson, C. W., Johnson, T.R., Turley, J.P., Patel, V. L., & **Zhang, J.** (2007, in press). Towards a hybrid method to categorize interruptions and activities in healthcare. *International Journal of Medical Informatics*, 00, 000-000.
7. Brixey, J. J., Robinson, D. J., Johnson, C. W., Johnson, T. R., Turley, J. P., & **Zhang, J.** (2007). A concept analysis of the phenomenon interruption. *Advances in Nursing Science*, 30 (1): E26-E42.
8. **Zhang, J.**, & Patel, V. L. (2006). Distributed cognition, representation, and affordance. *Cognition & Pragmatics*, 14 (2), 333-341.
9. Liu, X., Wang, H., Corbly, C. R., **Zhang, J.**, & Joseph, J. E. (2006). The involvement of the inferior parietal cortex in the numerical Stroop effect and the distance effect in a two-digit number comparison task. *Journal of Cognitive Neuroscience*, 18 (9), 1518-1530.

10. Sittig, D. F., Ash, J. S., **Zhang, J.**, Osheroff, J. A., & Shabot, M. M. (2006). Lessons from “Unexpected increased mortality after implementation of a commercially sold Computerized Physician Order Entry System”. *Pediatrics*, 118 (2), 797-801.
11. Wang, H., Johnson, T. R., & **Zhang, J.** (2006). The order effect in human abductive reasoning: An empirical and computational study. *Journal of Experimental and Theoretical Artificial Intelligence*, 18 (2), 215-247.
12. Turley, J.P., Brixey, J.J., Johnson, T.R., Mokkarala, P., & Zhang, J. (2006). Comprehensive medical error ontology for the codification of published literature, *Cognitive Studies*, 18(1), 1-11.
13. Turley, J.P., Johnson, T. R., Paige, D. L., **Zhang, J.**, Brixey, J. J., (2006). Operating manual-based usability evaluation of medical devices: An effective patient safety screening methods. *Joint Commission Journal on Quality and Patient Safety*, 32(4), 214-220.
14. Wang, H., Johnson, T. R., & **Zhang, J.** (2006). A hybrid system for abductive tactical decision making. *International Journal of Hybrid Intelligent Systems*, 3, 23-33.
15. Tang, Z., **Zhang, J.**, Johnson, T. R., Tindall, D. (2006). Applying heuristic evaluation to improving the usability of a telemedicine system. *Journal of Telemedicine and Telecare*, 12(1), 24-34.
16. Wang, H., Johnson, T. R., Sun, Y., **Zhang, J.** (2005). Object location memory: The interplay of multiple representations. *Memory & Cognition*, 33(7), 1147-1159.
17. Horsky, J., **Zhang, J.**, & Patel, V. L. (2005). To err is not entirely human: Complex technology and user cognition. *Journal of Biomedical Informatics*, 38, 264-266.
18. **Zhang, J.** (2005). Human-centered computing in health information systems: Part I-- Analysis and Design (Editorial). *Journal of Biomedical Informatics*, 38, 1-3.
19. **Zhang, J.** (2005). Human-centered computing in health information systems: Part II-- Evaluation (Editorial). *Journal of Biomedical Informatics*, 38, 173-175.
20. Rinkus, S. M., Walji, M., Johnson, K. A., Malin, J., Turley, J. P., & **Zhang, J.** (2005). Human-centered design of a distributed knowledge management system. *Journal of Biomedical Informatics*, 38, 4-17.
21. Malhotra, S., Laxmisan, A., Keselman, A., **Zhang, J.**, & Patel, V. L. (2005). Designing the design phase of critical care devices: A cognitive approach. *Journal of Biomedical Informatics*, 38, 34-50.
22. Johnson, C. M., Johnson, T. R., & **Zhang, J.** (2005). A user-centered framework for redesigning health care interfaces. *Journal of Biomedical Informatics*, 38, 75-87.
23. **Zhang, J.**, & Wang, H. (2005). The effect of external representations on numeric tasks. *Quarterly Journal of Experimental Psychology*, 58A (5), 817-838.
24. **Zhang, J.** (2005). From topological perception to distributed cognition. *Visual Cognition*, 12 (4), 662-664.
25. **Zhang, J.**, Patel, V. L., Johnson, T. R., & Shortliffe, E. H. (2004). A cognitive taxonomy of medical errors. *Journal of Biomedical Informatics*, 37, 193-204.
26. Graham, M. J., Kubose, T. K., Jordan, D., **Zhang, J.**, Patel, V. L., & Johnson, T. R. (2004). Heuristic evaluation of infusion pumps: Implications for patient safety in intensive care units. *International Journal of Medical Informatics*, 73, 771-779.
27. Johnson, T. R., **Zhang, J.**, Tang, Z., & Johnson, C. M., & Turley, J. P. (2004). Assessing Informatics Students’ Satisfaction with a Web-based Courseware System. *International Journal of Medical Informatics*, 73, 181-187.

28. Wang, H., Johnson, T. R., & **Zhang, J.** (2003). A multilevel approach to cognitive modeling (Commentary on Anderson & Lebiere - The Newell Test for a Theory of Cognition). *Behavioral and Brain Sciences*, 26 (5), 626-627.
29. Keselman, A., Patel, V. L., Johnson, T. R., & **Zhang, J.** (2003). Institutional decision making to select patient care devices: Identifying venues to promote patient safety. *Journal of Biomedical Informatics*, 36, 31-44.
30. **Zhang, J.**, Johnson, T. R., Patel, V. L., Paige, D., & Kubose, T. (2003). Using usability heuristics to evaluate patient safety of medical devices. *Journal of Biomedical Informatics*, 36 (1-2), 23-30.
31. Chen, J., Hobdell, M., Dunn, K., Johnson, K., **Zhang, J.** (2003). Teledentistry and its use in education. *Journal of the American Dental Association*, 134, 342-346.
32. **Zhang, J.**, Patel, V. L., & Johnson, T. R. (2002). Medical error: Is the solution cognitive or medical? *Journal of American Medical Informatics Association*, 9 (6), S75-77.
33. **Zhang, J.**, Patel, V. L., Johnson, K. A., Malin, J., & Smith, J. W. (2002). Designing human-centered distributed information systems. *IEEE Intelligent Systems* 17 (5), 42-47.
34. **Zhang, J.** (2002). The representational issues of health concepts: A cognitive perspective. *Journal of Biomedical Informatics*, 35, 17-24.
35. Turley, J. P., Johnson, C., Johnson, T. R., & **Zhang, J.** (2001). A clean slate: Initiating a graduate program in health informatics. *MD Computing*, 18 (1), 47-48.
36. **Zhang, J.** (1998). A distributed representation approach to group problem solving. *Journal of American Society of Information Science*, 49(9), 801-809.
37. **Zhang, J.**, Johnson, T. R., & Wang, H. (1998). The relation between order effects and frequency learning in tactical decision making. *Thinking & Reasoning*, 4 (2), 123-145.
38. **Zhang, J.** (1997). The nature of external representations in problem solving. *Cognitive Science*, 21, 179-217.
39. **Zhang, J.** (1997). Distributed representation as a principle for the analysis of cockpit information displays. *The International Journal of Aviation Psychology*, 7, 105-121.
40. **Zhang, J.** (1996). A representational analysis of relational information displays. *International Journal of Human-Computer Studies*, 45, 59-74.
41. **Zhang, J.**, & Norman, D. A. (1995). A representational analysis of numeration systems. *Cognition*, 57, 271-295.
42. **Zhang, J.**, & Norman, D. A. (1994). Representations in distributed cognitive tasks. *Cognitive Science*, 18, 87-122.
43. **Zhang, J.** (1993). External Representation: An Issue for Cognition. *Behavioral & Brain Sciences*, 16(4), 774-775.
44. **Zhang, J.**, Chen, Z., He, Y., & Xu, X. (1984). Effect of calcium on proteolytic activity and conformation of hemorrhagic toxin I from five-pace snake (*agkistrodon acutus*) venom. *Toxicon*, 22 (6), 931-935.

Books:

1. **Zhang, J.** (in preparation). *External representation: The interaction between cognition and technology.*
2. Patel, V. L., & **Zhang, J.** (in preparation). *Cognitive science in biomedical informatics.*

Book Chapters:

1. Patel, V. L., & **Zhang, J.** (2006). Cognition and patient safety. In F. Durso, R. Nickerson, S. Dumais, S. Lewandowsky, & T. Perfect (Eds.): *Handbook of Applied Cognition (2nd ed.)* (pp.307-331). New York: Wiley.
2. Wang, H., & **Zhang, J.** (2006). Memory and consciousness: Separating retrieval processes and mental awareness. In M. A. Vanchevsky (Ed.), *Frontiers in Cognitive Psychology* (pp. 71-88). Hauppauge, NY: Nova Science Publishers.
3. **Zhang, J.**, & Patel, V. L. (2006). *Electronic health records: A human project*. In: Touch Briefing.
4. **Zhang, J.**, Patel, V. L., Johnson, T. R., & Turley, J. P. (2005). *Health informatics and medical error*. In: Business Briefing: US Healthcare Strategies.
5. **Zhang, J.**, Patel, V. L., Johnson, T. R., Chung, P., & Turley, J. P. (2005). Evaluating and predicting patient safety for medical devices with integral information technology. In K. Henriksen, J. B. Battles, E. Marks & D. I. Lewin (Eds.), *Advances in Patient Safety: From Research to Implementation* (pp. 323-336). Rockville, MD: Agency for Healthcare Research and Quality.
6. Johnson, T. R., **Zhang, J.**, Patel, V. L., Keselman, A., Tang, X., Brixey, J., Paige, D., Turley, J. P. (2005). The role of patient safety in the device purchasing process. In K. Henriksen, J. B. Battles, E. Marks & D. I. Lewin (Eds.), *Advances in Patient Safety: From Research to Implementation* (pp. 341-352). Rockville, MD: Agency for Healthcare Research and Quality.
7. Patel, V. L., Arocha, J. F., & **Zhang, J.** (2005). Reasoning in medicine. In: Holyoak, K. (Ed.): *Cambridge handbook of thinking and reasoning* (pp. 727-750). New York: Cambridge University Press.
8. Johnson, T. R., Wang, H., & **Zhang, J.** (2003). Skill Acquisition: Models. *Encyclopedia of Cognitive Science*. New York: Nature Publishing.
9. **Zhang, J.** (2000). External representations in complex information processing tasks. In A. Kent (Ed.), *Encyclopedia of Library and Information Science (Vol. 68, 164-180)*. New York: Marcel Dekker, Inc.
10. Johnson, T. R., **Zhang, J.**, & Wang, H. (1997). A hybrid learning model of abductive reasoning. In R. Sun & F. Alexandre (Eds.), *Connectionist Symbolic Integration* (pp. 91-112). Hillsdale, NJ: Lawrence Erlbaum.

Proceedings Papers (peer reviewed):

1. Walji, M., & **Zhang, J.** (2008). Human-centered design of persuasive appointment reminders. *Proceedings of Hawaii International Conference on Systems Sciences (HICSS-41)*.
2. Chen, J. W., & **Zhang, J.** (2007). Comparing text-based and graphic user interfaces for novice and expert users. *Proceedings of AMIA 2007*.
3. Gong, Y., Zhu, M., Li, J., Turley, J. P., & **Zhang, J.** (2007). Communication ontology for medical errors. *Proceedings of MedInfo 2007*.
4. **Zhang, J.**, & Butler, K. (2007). UFuRT: A work-centered framework and process for design and evaluation of information systems. *Proceedings of HCI International 2007*.
5. Butler, K., & **Zhang, J.**, Esposito, C., Bahrami, A., Hebron, R., & Kieras, D. (2007) Work-centered design: A case study of a mixed initiative scheduler (pp. 747-756). *CHI 2007 Proceedings*.

6. **Zhang, J.** (2006, October). *Teamwork in complex environment: The role of technology* Paper presented at a workshop for the Committee on Opportunities in Basic Research in the Behavioral and Social Sciences for the U.S. Military at the National Academies, Washington, DC.
7. **Zhang, J.** (2005). Optimizing usability of health information systems. *Proceedings of 2005 International Hospital Information Technology Forum and Chinese Hospital Information Network Conference* (pp.36-39).
8. Brixey, J.J., Robinson, D.J., Tang, Z., Johnson, T.R., Turley, J.P., **Zhang, J.** (2005). A Study of interruption and workflow for registered nurses in a level-one trauma center. *Proceedings of Health Informatics Conference*.
9. Gong, Y., & **Zhang, J.** (2005). A human-centered design and evaluation framework for information search. *Proceedings of AMIA 2005*.
10. Brixey, J. J., Robinson, D. J., Tang, Z., Johnson, T. R., Turley, J. P., & **Zhang, J.** (2005). Interruptions in workflow for RNs in a level one trauma center. *Proceedings of AMIA 2005*.
11. Thronesbery, C., Malin, J. T., Jenks, K., Overland, D., Oliver, P., **Zhang, J.**, Gong, Y., & Zhang, T. (2005). A Data-Based Console Logger for Future Mission Operations Team Coordination. *Proceedings of IEEE Aerospace Conference 2005*.
12. Wang, H., Johnson, T. R., **Zhang, J.**, Bello, P., & Yang, Y. (2004). A Hybrid System of Tactical Decision Making. *Proceedings of Fourth International Conference on Hybrid Intelligent Systems*. Kitakyushu, Japan.
13. Walji, M., Brixey, J., Johnson-Throop, K. A., & **Zhang, J.** (2004). A theoretical framework to understand and engineer persuasive interruptions. In K. Forbus, D. Gentner, & T. Regier (Eds.), *Proceedings of the Twenty-Sixth Annual Conference of the Cognitive Science Society* (pp. 1417-1422). Mahwah, NJ: Lawrence Erlbaum Associates.
14. Sun, Y., Wang, H., Yang, Y., **Zhang, J.** & Smith, J. W. (2004). Probabilistic judgment by a coarser scale: Behavior and ERP evidence. In K. Forbus, D. Gentner, & T. Regier (Eds.), *Proceedings of the Twenty-Sixth Annual Conference of the Cognitive Science Society* (pp.1291-1296). Mahwah, NJ: Lawrence Erlbaum Associates.
15. Brixey, J. J., Walji, M., **Zhang, J.**, Johnson, T. R., & Turley, J. P. Proc 6th International Workshop on Enterprise Networking and Computing in Healthcare Industry. Proposing a Taxonomy and Model of Interruption. 2004: 184-188.
16. Rukab, J. A., Johnson-Throop, K. A., Malin, J., & **Zhang, J.** (2004). A Framework of Interruptions in Distributed Team Environments. In M. Fieschi, E. Coiera, & Y. C. J. Li (Eds.), *Proceedings of of 11th World Congress on Medical Informatics* (pp. 1282-1286). Amerstadam: IOS Press.
17. Zhang, T., Aranzamendez, D., Rinkus, S. M., Gong, Y., Rukab, J., Johnson-Throop, K. A., Malin, J., **Zhang, J.** (2004). An Information Flow Analysis of a Distributed Information System for Space Medical Support. In M. Fieschi, E. Coiera, & Y. C. J. Li (Eds.), *Proceedings of of 11th World Congress on Medical Informatics* (pp. 992-996). Amerstadam: IOS Press.
18. Gong, Y., Zhang, T., Rukab, J., Johnson-Throop, K. A., Malin, J., **Zhang, J.** (2004). Design and Development of a Search Interface for an Information Gathering Tool. In M. Fieschi, E. Coiera, & Y. C. J. Li (Eds.), *Proceedings of of 11th World Congress on Medical Informatics* (pp. 1471-1475). Amerstadam: IOS Press.

19. Keselman, A., Patel, V. L., **Zhang, J.**, Johnson, T. R. (2004). Institutional Decision Making to Select Patient Care Devices: An Analysis to Identify Threats to Patient Safety. In M. Fieschi, E. Coiera, & Y. C. J. Li (Eds.), *Proceedings of 11th World Congress on Medical Informatics* (pp. 1357-1361). Amsterdam: IOS Press.
20. Tang, Z., **Zhang, J.**, Johnson, T. R., Bernstam, E., & Tindall, D. (2004). Integrating task analysis in software usability evaluation: A case study. *Proceedings of the Human Factors and Ergonomics Society 48th Annual Meeting* (pp. 1741-1745). Santa Monica: Human Factors and Ergonomics Society.
21. Parsa Mirhaji, **Jiajie Zhang**, Arunkumar Srinivasan, Rachel L. Richesson, Jack W. Smith. Knowledge-based public health situation awareness. [Proc. SPIE Vol. 5403](#), p. 198-209, Sensors, and Command, Control, Communications, and Intelligence (C3I) Technologies for Homeland Security and Homeland Defense III; Edward M. Carapezza; Ed.
22. Parsa Mirhaji, Rachel Richesson, **Jiajie Zhang**, Jack W. Smith. Public health situation awareness: toward a semantic approach. [Proc. SPIE Vol. 5434](#), p. 339-350, Multisensor, Multisource Information Fusion: Architectures, Algorithms, and Applications 2004; Belur V. Dasarathy; Ed. Publication Date: April 2004
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Thesis & Dissertation:

1. Zhang, J. (1983). *Effect of calcium on proteolytic activity and conformation of hemorrhagic toxin I from five pace snake (agkistrodon acutus) venom*. BS Thesis. Department of Biological Sciences, University of Science & Technology of China. (Advisor: Xun Xu)
2. Zhang, J. (1992). *Distributed representation: The interaction between internal and external information*. Ph.D. Dissertation. San Diego: University of California, Department of Cognitive Science. (Advisor: Donald A. Norman)

Abstracts:

1. Chen, J. W., & **Zhang, J.** (2007). Identifying functional discrepancies among systems, users, and activities of electronic dental records: A work domain ontology approach. *Proceedings of AMIA 2007*.
2. Xie, Z., **Zhang J.** (2007). Representational Affordances in Design of Clinical Research Information System. *Proceedings of AMIA 2007*.
3. Gong, Y & **Zhang, J.** (2007). A model of distributed information search on relational data. *Proceedings of MedInfo 2007*.
4. Brixey, J. J., Robinson, D. J., Turley, J. P., **Zhang, J.** (2007). Initiators of Interruption in Workflow: The Role of MDs and RNs. *Proceedings of MedInfo 2007*.
5. Zhu, M. Huang, Y., Gong, Y., Brixey, J., Turley, J. P., & **Zhang, J.** (2006). Difficulties in mapping concepts in medical error taxonomies. *Proceedings of AMIA2006*.
6. Gong, Y., Zhu, M., Li, J., Turley, J. P., & **Zhang, J.** (2006). Clinical communication ontology for medical errors. *Proceedings of AMIA2006*.
7. Kunapareddy, N., Mirhaji, P., **Zhang, J.**, Michea, Y. F., Srinivasan, A. (2005). (Abstract). Information Visualization for Quality Control in Health Data Exchange Platforms. *Proceedings of AMIA2005*.
8. Walji, M., Johnson-Throop, K. A., Johnson, T. R., Bernstam, E. V., & **Zhang, J.** (2005). (Abstract). Persuasive Email Messages for Patient Communication. *Proceedings of AMIA2005*.
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Medical Record Flow Sheets. AMIA 2003.

17. Chung, P. H., **Zhang, J.**, Johnson, T. R., & Patel, V. L. (2003) (Abstract). An Extended Hierarchical Task Analysis for Error Prediction in Medical Devices. *Proceedings of the 2003 Cognitive Science Society Conference*.
18. Yang, L., Tang, X., Johnson, C. M., **Zhang, J.**, & Johnson, T. R. (2002). (Abstract). Redesign of pedigree through user-centered visualization. In I. S. Kohane (Ed.): *Proceedings of AMIA 2002 Symposium* (pp. 1206). Philadelphia: Hanley & Belfus.
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25. **Zhang, J.**, Johnson, T. R., Chuah, J., & McGrory, K. (1997). (Abstract) Direct Interaction Representation of Cockpit Information Displays: The Tradeoff between Internal and External Representations. *Proceedings of the Nineteenth Annual Conference of the Cognitive Science Society* (pp. 1097). Hillsdale, NJ: Erlbaum.
26. Johnson, T. R., Wang, H., & **Zhang, J.** (2003). [Abstract] An ACT-R Model of Human Object-Location Memory. *Proceedings of the Twenty-fifth Annual Meeting of the Cognitive Science Society*.
27. Mirhaji, P., Turley, J. P., Richesson, R., & **Zhang, J.** (2003). (Abstract) A Knowledge Driven Approach to Public Health Situation awareness. Second National Conference on Syndromic Surveillance.

VIII. PRESENTATIONS

Keynotes, Symposia, Panels, & Tutorials:

1. **Keynote.** *The role of external representations*. Human-Computer Interaction Consortium (HCIC) 1996 Workshop. Fraser, Colorado, February 14, 1996, jointly with Donald A. Norman & Daniel Gruen.
2. **Panel (participant).** *Relational Information displays*. Human Factors and Ergonomics Society Conference. Chicago, October, 1998, jointly with Klaus Christofesen (Chair), Christopher Wickens, & Kim Vicente.

3. **Panel (Chair).** *What is wrong with EMR?* AMIA'99. November 8, 1999. Washington, DC, jointly with James Cimino, Jonathan Teich, and Vimla L. Patel.
4. **Symposium (Chair).** *The nature of human error: An emerging interdisciplinary perspective.* Cognitive Science Society Conference, August 6-11, 2000, Philadelphia, jointly with Patel, V. L., Shortliffe, E. H., Freed, M., & Remington, R.
5. **Panel (participant).** *Slips, mistakes and faulty reasoning: The nature of human errors in medicine.* AMIA 2000, jointly with Shortliffe, E. H. (Chair), Patel, V. L., & Freed, M.
6. **Invited Tutorial:** *The Coordination of external representations and internal mental representations in display-based cognitive tasks,* Diagrams 2000 Conference, Edinburgh, UK, August 31 - September 3, 2000.
7. **Chair:** Session on *Human-Computer Interaction,* Smart Systems 2000, 9/5/00-9/8/00
8. **Symposium (Chair).** *High-level cognition: theories and applications.* 3rd International Conference of Cognitive Science. August 27-September 1, 2001.
9. **Panel (Chair).** *Medical Error: Is the solution medical or cognitive?* AMIA'01. Washington, DC, November, 2001, jointly with Vimla L. Patel, Kim Vicente, Todd R. Johnson.
10. **Panel (participant).** *Reducing medical errors: Enhancing patient safety through multidisciplinary informatics research.* MedInfo2001, London, September, 2001, Jointly with Vimla L. Patel, (Chair), Edward H. Shortliffe, Johan van der Lei , & Hiroshi Takeda.
11. **Tutorial (participant):** *User Interface: Practical Design and Evaluation of Healthcare Computer Applications and Devices.* AMIA2003, Gregg Lund, Constance M. Johnson, Jiajie Zhang, Todd R. Johnson, & Vimla L. Patel. Washington, DC, November, 2003.
12. **Chair:** Session on Ontology and Design. AMIA2003. Washington, DC, November 9-12, 2003.
13. **Plenary:** *Human Centered Intelligent Flight Surgeon Console.* Keck Annual Research Conference, Clear Lake, Texas, October, 2003.
14. **Tutorial (participant):** *User Interface: Practical Design and Evaluation of Healthcare Computer Applications and Devices.* MedInfo, Gregg Lund, Constance M. Johnson, Jiajie Zhang, & Todd R. Johnson. San Francisco, September 7-12, 2004.
15. **Tutorial.** *Introduction to Biomedical informatics.* Fudan University, Shanghai, July 12, 2005.
16. **Tutorial.** *Usability in health information systems.* Kingstar Winning, Shanghai, July 13, 2005.
17. **Plenary:** *Biomedical informatics for translational medicine: Challenges.* Symposium on Information-Based Translational Medicine, Houston, September 29-30, 2005.
18. **Plenary:** *Health informatics and medical error.* 2005 Annual Conference of the Chinese Medical Informatics Association. Shenzhen, China, November 13-15, 2005.
19. **Panel (Chair).** *Cognition factors and decision making in critical care?* AMIA'05. Washington, DC, October, 2005, jointly with Vimla L. Patel, Ted Shortliffe, Michael Shabot, Don Runker.
20. **Distinguished Lecturer.** *Human-centered computing in biomedical informatics.* Arizona State University, Phoenix, January 23, 2006.
21. **Panel (Participant).** *Home based patient-centered technologies.* AMIA'06. Jointly with George Demiris, Stuart Speedie, Justin Starren, and Karen Courtney.
22. **Symposium (Chair).** *Distributed cognition in healthcare.* 2006 Annual Conference of Cognitive Science Society. July, 2006.
23. **Plenary:** *Biomedical Informatics: Current Challenges.* Pan-Pacific Medical Informatics &

eHealth Summit, Beijing, April 17, 2007.

24. **Guest Speaker.** *The impact of technology on teamwork.* 2007 Collaboration and Knowledge Interoperability Workshop. Office of Naval Research. Orlando, Florida. January 23-25.
25. **Guest Speaker.** *Human-centered computing in biomedical informatics.* Houston Chapter of Human Factors and Ergonomics Society. February 15, 2007.
26. **Panel (Participant).** *Alert overriding in computerized provider order entry systems: Problems and solutions.* MedInfo07. Jointly with Jos Aarts, Niels Boye, & Vimla Patel.

Talks at Local and Other Institutions:

1. *Biomedical Informatics: Current Challenges.* Guangdong Pharmaceutical University, July 18, 2007.
2. *Biomedical Informatics: Current Challenges.* Center for Bioinformatics, Peking University, July 23, 2007.
3. *Biomedical Informatics: Current Challenges.* MIForum, No. 3 Hospital, Peking University Health Science Center, July 21, 2007.
4. *The impact of technology on teamwork.* Research Seminar Series, School of Health Information Sciences, University of Texas Health Science Center at Houston, April, 2007.
5. *Biomedical Informatics: Current Challenges.* South Carolina Medical University, January 21, 2007.
6. *Biomedical Informatics: Current Challenges.* MD Anderson Cancer Center, May 24, 2006.
7. *What is wrong with EHR?* Taipei Medical University, November 18, 2005.
8. *Health information and medical error.* Taipei Medical University, November 17, 2005
9. *What is wrong with EHR?* Hong Kong Hospital Authority, November 16, 2005.
10. *Public health informatics.* CDC, Shenzhen, China, November 15, 2005.
11. *What is biomedical informatics?* Beijing Capital Medical University, July, 2005.
12. *Health Informatics and Medical Error.* HIMSS South Central Texas Chapter. April 22, 2005.
13. *Representational Analysis for Human-Computer Interaction,* Department of Psychology, Rice University, February 4, 2005.
14. *Representational Analysis for Human-Computer Interaction,* Tokyo SIG on Usability, February 18, 2005.
15. *Representational Analysis for Human-Computer Interaction,* Tokyo University, February 21, 2005.
16. *Human Centered Intelligent Flight Surgeon Console,* Keck Center for Computational Biology, February 21, 2003.
17. *A Cognitive taxonomy of human errors in medicine,* Department of Psychology, Rice University, May 1, 2002.
18. *Human Centered Intelligent Flight Surgeon Console,* Department of Medical Informatics, Columbia University, April 18, 2002.
19. *External cognition.* Workshop on Cognition, Learning & Social Change (organized by Nobel Laureate Douglass North of Washington University), October 27-28, 2000, Airley, Virginia.
20. *User interface design for medical information systems.* NASA Johnson Space Center, Houston, March 16, 2000.
21. *The representational issues of health concepts: A cognitive perspective.* International Medical Informatics Association--Working Group 6 Meeting (Health Concept Representation and Natural Language Processing). Phoenix, Arizona, December 16-19

22. *User Interface Design: Theory and Applications*. Chinese Academy of Sciences, Beijing, June 14, 2000.
23. *Distributed cognition—The interaction between internal and external representations*. Denison College, October 20, 1998.
24. *Representations—A Cognitive Perspective*. Department of Physics, The Ohio State University, October 19, 1998.
25. *The Representational Effect in the Design of direct interaction interfaces: Theory and applications*. Microsoft Research, June 30, 1998.
26. *The Representational Effect in the Design of direct interaction interfaces: Theory and applications*. IBM Watson Research Center, June 25, 1998.
27. *The Representational Effect in Distributed Cognitive Tasks*. University of Central Florida, April 10, 1998.
28. *The Representational Effect in Distributed Cognitive Tasks*. George Mason University, January 26, 1998.
29. Zhang, J. *Distributed Cognition*. Brownbag, Group for Cognitive Development and Instruction, The Ohio State University, November 19, 1997.
30. *Distributed cognition—The interaction between internal and external representations*. Bowling Green State University, March 13, 1997.
31. Johnson, T. R., & Zhang, J. *Strategies and mechanisms of learning by doing*. Brownbag, Center for Cognitive Science, The Ohio State University, February 16, 1996.
32. Zhang, J. *A hybrid architecture for tactical decision making*, Cognitive/Experimental Brownbag, Department of Psychology, Ohio State University. October 3, 1995.
33. Wang, J., & Zhang, J. *Multiple-levels of memory dissociations*. CogFest95, Center for Cognitive Science, The Ohio State University, October, 1995.
34. *New directions of cognitive science—Environment-based approaches to cognition*. Symposium of Cognitive Science: Its Current Status and Future Development. Beijing, China, August 19, 1995.
35. *Distributed cognition*. Graduate School, Academia Sinica, September 12, 1994.
36. Zhang, J. *External Representations*. Brownbag, Center for Cognitive Science, The Ohio State University, September 23, 1994.
37. *Seminar in Problem Solving*. Beijing Laboratory of Cognitive Science, Academia Sinica, September 5-10, 1994.
38. Zhang, J. *Internal and External Representations in Problem Solving and Everyday Cognition*. Center for Cognitive Science, The Ohio State University, February 26, 1993.
39. Zhang, J. *The interaction between perceptual and cognitive processes: mental planning or situational strategies?* CogFest93, Center for Cognitive Science, The Ohio State University, November 20, 1993.

Conference Presentations: (Oral & Poster)

1. Chen, J. W., & Zhang, J. Comparing text-based and graphic user interfaces for novice and expert users. *AMIA 2007*.
2. Chen, J. W., & Zhang, J. Identifying functional discrepancies among systems, users, and activities of electronic dental records: A work domain ontology approach. *AMIA 2007*.
3. Chen, J. W., & Zhang, J. A Novel Method in Identifying Functional Discrepancies among Systems, Users, and Activities of Electronic Dental Records. Keck Annual Research

- Conference, 2007.
4. Xie, Z., Zhang J. Representational Affordances in Design of Clinical Research Information System. *AMIA 2007*.
 5. Gong, Y & Zhang, J. A model of distributed information search on relational data. *MedInfo 2007*.
 6. Zhang, J., & Johnson, T. R. Human-centered computing in biomedical informatics. Human Factors and Ergonomics Society Houston Chapter Annual Conference, May 4, 2007.
 7. Gong, Y., Zhu, M., Li, J., Turley, J. P., & Zhang, J. Communication ontology for medical errors. *MedInfo 2007*.
 8. Brixey, J. J., Robinson, D. J., Turley, J. P. Zhang, J. Strategies in informatics. Sigma Theta Tau International 18th International Nursing Research Congress Focusing on Evidence-Based Practice (11 -- 14 July, 2007).
 9. Chen, J. W., & Zhang, J. Functional discrepancy in EDR. UTH Research Day, 2006.
 10. Brixey, J. J., Robinson, D. J. Tang, Z. Johnson, T. R., Turley, J. P. Zhang, J. The Clinical Workspace as an Environmental Contributor to Interruption. Presented at the International Nursing Conference 2006 and The Fifth Annual Meeting of China Higher Nursing Education Association, 18 - 19 October, 2006, China, Shandong, Jinan).
 11. Brixey, J. J., Robinson, D. J., Turley, J. P., Zhang, J. Initiators of Interruption in Workflow: The Role of MDs and RNs, MEDINFO 2007, August 20-24, Brisbane, Australia.
 12. Zhang, J., & Butler, K. UFuRT: A work-centered framework and process for design and evaluation of information systems. *HCI International, Beijing, July, 2007*.
 13. Butler, K., Zhang, J., Esposito, C., Bahrami, A, Hebron, R., & Kieras, D. Work-centered design: A case study of a mixed initiative scheduler. *CHI 2007*, San Jose, April, 2007.
 14. Brixey, J., Turley, J. P., & Zhang, J. Interrupted physicians and nurses in a Level-One trauma center: Are interrupted tasks resumed?. *Human Factors and Ergonomics Society Houston Chapter Annual Conference*, May 26, 2006.
 15. Xie, Z., Zhang, J. (2006) Development of A Taxonomy of Representational Affordances for Electronic Health Record System. *American Medical Informatics Association 2006 Annual Symposium*.
 16. Zhang, J. What is wrong with EHR? 7th China-Japan-Korea Symposium on Medical Informatics. Shenzhen, China, November 15, 2005.
 17. Brixey, J. J. Johnson, T. R., Robinson, D. J., Zhang, J., Tang, Z., Turley, J. P. A Study Categorizing Workflow Interruptions for RNs in a Level One Trauma Center. Presented at the 16th International Nursing Research Conference from July 14-16 2005 held in Kona Hawaii
 18. Brixey, J. J., Robinson, D. J., Tang, Z., Johnson, T. R., Turley, J. P., & Zhang, J. Interruptions in workflow for RNs in a level one trauma center. Annual Conference of American Medical Informatics Association, Washington, DC, October, 2005.
 19. Brixey, J.J., Robinson, D.J., Tang, Z., Johnson, T.R., Turley, J.P., Zhang, J. A Study of Interruption and Workflow for Registered Nurses in a Level One Trauma Center. Health Informatics Conference. Melbourne, Australia, July 31- August 2, 2005.
 27. Brixey, J. J., Robinson, D. J., Tang, Z., Johnson, T. R., Turley, J. P., Zhang, J. Evaluating a Model of Interruption. Conference Proceedings, International Nursing Conference held October 12-15, 2005 in Beijing, China.

20. Brixey, J. J., Robinson, D. J., Tang, Z., Johnson, T. R., Turley, J. P., Zhang, J. A Study of Workflow in a Level One Trauma Center. Presented at the CISPC meeting of the Memorial Hermann System, Houston, TX, October 3, 2005.
21. Gong, Y., & Zhang, J. A human-centered design and evaluation framework for information search. Annual Conference of American Medical Informatics Association, Washington, DC, October, 2005.
22. Gong, Y, Zhang J, A distributed information analysis for information search tasks. Annual Conference of American Medical Informatics Association, Washington, DC, October, 2005.
23. Chen J-W, Zhang J. Building user and designer model for a EDR system. UT Research day. November, 2005.
24. Kunapareddy, N., Mirhaji, P., Zhang, J., Michea, Y. F., Srinivasan, A. Information Visualization for Quality Control in Health Data Exchange Platforms. Annual Conference of American Medical Informatics Association, Washington, DC, October, 2005.
25. Malin JT, Thronesbery C, Zhang J, Gong Y. Prototyping a console logger for mission operations team coordination. In: Houston Human Factors Conference. Houston, Texas; 2005.
26. Malin, J. T., Thronesbery, C., Zhang, J., & Gong, Y. Space mission operations team coordination: D-Logger prototypes. Human Factors and Ergonomics Society Houston Chapter Annual Conference, May 6, 2005.
27. Tang, Z., Johnson, T. R., Zhang, Brixey. Incorporating usability considerations in selecting a medical device. Human Factors and Ergonomics Society Houston Chapter Annual Conference, May 6, 2005.
28. Tang, Z., Zhang, J., Brixey, J. J., & Johnson, T. R. (2005). Guidelines for integrating usability in medical device purchasing. The University of Texas at Houston 11th Annual Research Day Conference. Houston, TX.
29. Zhang, J. What is wrong with EHR? 7th China-Japan-Korea Symposium on Medical Informatics. Shenzhen, China, November 15, 2005.
30. Walji M, Johnson-Throop K, Johnson T, Bernstam E, Zhang J. Enhancing Adherence in Healthcare through Persuasive Messages. Human Factors and Ergonomics Society Houston Chapter Annual Conference, May 6, 2005.
31. Walji, M., Johnson-Throop, K. A., Johnson, T. R., Bernstam, E. V., & Zhang, J. Persuasive Email Messages for Patient Communication. Annual Conference of American Medical Informatics Association, Washington, DC, October, 2005.
28. Walji M, Johnson-Throop K, Johnson T, Bernstam E, Zhang J. Persuasive Email Reminders to Enhance Appointment Adherence for Diabetics. AMIA Spring Congress. 2006.
32. Zhang, J. fMRI studies of higher-level cognition. Symposium on Feature Binding, Key Laboratory of Cognitive Science, Chinese Academy of Sciences, July 15, 2005.
33. Brixey, J. J., Zhang, J., Johnson, T.R., Turley, J. P. Factors Influencing Legibility of a Small Screen Medical Device Using Contextual Analysis. Presented at *the International Society for Occupational Ergonomics and Safety Conference 2004*, May 19-22, 2004, Houston, Texas.
34. Brixey, J. J., Zhang, J., Johnson, T.R., Turley, J. P., Johnson, C., Robinson, D. A. A Study of Interruption in an Emergency Room. *Presented at the NLM Informatics Training Conference*, June 9 –10, 2004, Indianapolis, Indiana.
35. Brixey, J.J., Zhang, J., Johnson, T.R., Turley, J. P., Proposing a Taxonomy and Model of Interruption. Presented at the *6th International Workshop on Enterprise Networking and*

- Computing in Healthcare Industry "Healthcom 2004"* held in Odawara, Japan from June 28 to 29, 2004).
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 37. Chen J-W, Zhang J. Comparing text-based and graphic user interface of an electronic dental record system in educator's module. UT Research Day, November, 2004
 38. Chung, P, Ali, A., Brixey, J., Zhang, J., Johnson, T. R., & Turley, J. P. A comparative study of patient safety using infusion pumps. Poster presentation at *the 11th World Congress on Medical Informatics*, San Francisco, September, 2004.
 39. Gong, Y., Zhang, T., Rukab, J., Johnson-Throop, K. A., Malin, J., Zhang, J. Design and Development of a Search Interface for an Information Gathering Tool. Oral presentation at *the 11th World Congress on Medical Informatics*, San Francisco, September, 2004.
 40. Johnson, T. R., Graham, M., Brixey, J., Zhang, J., Keselman, A., & Patel, V. L. Attitudes Toward Medical Device Use Errors and their Prevention. Poster presentation at *the 11th World Congress on Medical Informatics*, San Francisco, September, 2004.
 41. Keselman, A., Patel, V. L., Zhang, J., Johnson, T. R. Institutional Decision Making to Select Patient Care Devices: An Analysis to Identify Threats to Patient Safety. Oral presentation at *the 11th World Congress on Medical Informatics*, San Francisco, September, 2004.
 42. Lund, G., Tang, X., & Zhang, J. Information Retrieval Using Source or Concept Views of Electronic Medical Records (EMR). Poster presentation at *the 11th World Congress on Medical Informatics*, San Francisco, September, 2004.
 43. Rukab, J. A., Johnson-Throop, K. A., Malin, J., & **Zhang, J.** A Framework of Interruptions in Distributed Team Environments. Oral presentation at *the 11th World Congress on Medical Informatics*, San Francisco, September, 2004.
 44. Sun, Y., Wang, H., Yang, Y., Zhang, J. & Smith, J. W. Probabilistic judgment by a coarser scale: Behavior and ERP evidence. Oral presentation at *The Twenty-Sixth Annual Conference of the Cognitive Science Society*, Chicago, August, 2004..
 45. Tang Z., Zhang J., Johnson T.R., Bernstam E., & Tindall D., Integrating task analysis in software usability evaluation: A case study. The Human Factors and Ergonomics Society 48th Annual Meeting, New Orleans, LA, 2004.
 46. Tang, Z., Zhang, J., Johnson, T. R., Bernstam, E., & Tindall, D. (2004). *The Use of Usability Heuristics in the Evaluation of a Digital EMS System*. 2004 Human Factors & Ergonomics Society Houston Chapter Conference, Houston, April 23, 2004.
 47. Walji M, Johnson-Throop K, Malin JT, Zhang J. A theoretical framework to understand and engineer persuasive interruptions. HFES Houston Chapter 2004 Conference. 2004 April 23.
 48. Walji M, Johnson-Throop K, Malin JT, Zhang J. The case for persuasive interruptions in healthcare. UTH Research Day November 2003, Houston, TX. Brixey, J.J., Turley, J.P., Johnson, T.R., & Zhang, J. Analysis of Medical Device Errors Using Grounded Theory. Presented at the 14th International Nursing Research Congress *Celebrating Global Diversity in Research, Education and Practice* 10-12 July 2003, St. Thomas, U.S. Virgin Islands.
 49. Walji M, Johnson-Throop K, Zhang J. A theoretical framework to understand and engineer persuasive interruptions in healthcare. NLM Informatics Training Conference. 2004, June 9-10. Indianapolis. IN.

50. Walji M, Johnson-Throop K, Zhang J. A theoretical framework to understand and engineer persuasive interruptions in healthcare. The Ninth Annual Structural Biology Symposium. 2004, April 30-May1. Galveston, TX.
51. Walji, M., Brixey, J., Johnson-Throop, K. A., & Zhang, J. A theoretical framework to understand and engineer persuasive interruptions. Poster presentation at *The Twenty-Sixth Annual Conference of the Cognitive Science Society*, Chicago, August, 2004.
52. Walji, M., Johnson-Throop, K. A., & Zhang, J. (2004). *A Theoretical Framework to Understand and Engineer Persuasive Interruptions*. 2004 Human Factors & Ergonomics Society Houston Chapter Conference, Houston, April 23, 2004.
53. Walji, M., Johnson-Throop, K., Malin, J. T., & Zhang, J. The Case for Persuasive Interruptions in Healthcare. Poster presentation at *the 11th World Congress on Medical Informatics*, San Francisco, September, 2004.
54. Wang, D., Patel, V. L., & Zhang, J. Creating the Links Between Medical Errors and the Underlying Cognitive Factors. Poster presentation at *the 11th World Congress on Medical Informatics*, San Francisco, September, 2004.
55. Zhang, T., Aranzamendez, D., Rinkus, S. M., Gong, Y., Rukab, J., Johnson-Throop, K. A., Malin, J., Zhang, J. An Information Flow Analysis of a Distributed Information System for Space Medical Support. Oral presentation at *the 11th World Congress on Medical Informatics*, San Francisco, September, 2004.
56. Zhang, J. (2003). Human Centered Intelligent Flight Surgeon Console, *Human Performance Conference*, Clearlake, Texas, October 29, 2003.
57. Mirhaji, P., Turley, J. P., Richesson, R., & Zhang, J. (2003). A Knowledge Driven Approach to Public Health Situation awareness. Second National Conference on Syndromic Surveillance.
58. Zhang, J. (2003). Human Centered Intelligent Flight Surgeon Console, *Keck Annual Symposium*, Clearlake, Texas, October 4, 2003.
59. Brixey, J., Zhang, J., Johnson, T. R. (2003). Using Computational Modeling to Predict Resumption of an Interrupted Task for a Medical Device. *Presented at Sealy Center for Structural Biology*, The University of Texas Medical Branch at Galveston May 2-4, 2003 in Galveston.
60. Brixey, J., Turley, J.P., Johnson, T.R., & Zhang, J. (2003). Analysis of Medical Device Errors Using Grounded Theory. 14th International Nursing Research Congress *Celebrating Global Diversity in Research, Education and Practice* 10-12 July 2003, St. Thomas, U.S. Virgin Islands.
61. Johnson, T. R., **Zhang, J.**, Tang, Z., & Johnson, C. M. (2003). Assessing Informatics Students' Satisfaction with a Web-based Courseware System. *UTH Advances in Teaching and Learning Day*. March 28, UT Houston.
62. Johnson, T. R., **Zhang, J.**, Tang, Z., & Johnson, C. M., & Turley, J. P. (2003). Assessing Informatics Students' Satisfaction with a Web-based Courseware System. *Presented at IMIA Workshop on Education*. Portland, Oregon.
63. Chung, P. H., Zhang, J., Johnson, T. R., & Patel, V. L. (2003) An Extended Hierarchical Task Analysis for Error Prediction in Medical Devices. *Proceedings of the 2003 Cognitive Science Society Conference*.

64. Brixey, J. J., & Zhang, J. (2003). Using computational modeling to predict resumption of an interrupted task for a medical device. *8th Structural Biology Symposium*, Galveston, Texas, May 2-4, 2003.
65. Xie, Z., Gregg, P., & Zhang, J. (2003). Apply human-centered computing to design of electronic medical record flow sheet. *8th Structural Biology Symposium*, Galveston, Texas, May 2-4, 2003.
66. Zhang, J, Kathy Johnson, Jack Smith, & Jane Malin. (2003). Human centered intelligent flight surgeon console. *NASA Project Meeting*. March, 2003, Pittsburgh.
67. Yang, L., Tang, X. S., Johnson, C. M., Zhang, J., & Johnson, T. R. (2002). Redesign of pedigree displays through user-centered visualization. In I. S. Kohane (Ed.): *Proceedings of AMIA 2002 Symposium (pp. 1206)*. Philadelphia: Hanley & Belfus.
68. Johnson, T. R., Wang, H., Zhang, J. and Wang, Y. (2002) Memory for multidimensional stimuli. *Presented at the 2002 ACT-R Workshop*, Carnegie-Mellon University, Pittsburgh, PA, August 3, 2002.
69. Gong, Y., Zhang, T., Rukab, J, Johnson, K, Zhang, J. (2002). (Poster). Design and Development of a Search Interface for an Information Gathering Tool. UTH Research Day.
70. Zhang, J., Patel, V. L., Johnson, T. R., & Shortliffe, E. H. (2002). Toward a cognitive taxonomy of medical errors. *The Annual Meeting of American Medical Informatics Association*, San Antonio, 2002.
71. Brixey, J., Johnson, T. R., & Zhang, J. (2002). Evaluation of a medical error taxonomy. *The Annual Meeting of American Medical Informatics Association*, San Antonio, 2002.
72. Yang, L., Tang, X., Johnson, C. M., Zhang, J., & Johnson, T. R. (2002). Redesign of pedigree through user-centered visualization. *The Annual Meeting of American Medical Informatics Association*, San Antonio, 2002.
73. Johnson, T. R., Wang, H., Zhang, J. and Wang, Y. (2002) Memory for multidimensional stimuli. *Presented at the 2002 ACT-R Workshop*, Carnegie-Mellon University, Pittsburgh, PA, August 3, 2002.
74. Wang, H., Johnson, T. R., Zhang, J., & Wang, Y. (2002). A study of object-location memory. *The Annual Conference of the Twenty-Fourth Annual Conference of Cognitive Science Society*, George Mason University, 2002.
75. Johnson, T. R., Wang, H., Zhang, J., & Wang, Y. (2002). A model of spatio-temporal coding of memory for multidimensional stimuli. *The Annual Conference of the Twenty-Fourth Annual Conference of Cognitive Science Society*, George Mason University, 2002.
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77. Zhang, J, Kathy Johnson, Jack Smith, & Jane Malin. (2002). Human centered intelligent flight surgeon console. *NASA Project Meeting*. October, 2003, Houston, Texas.
78. Zhang, J., Johnson, T. R., Tang, Z., Bernstam, E., Sailors, M., & Tindall, D. (2002). *Usability evaluation of a digital medical information system*. UTH Research Day, November 1, 2002.
79. Zhang, J, Kathy Johnson, Jack Smith, & Jane Malin. (2002). Human centered intelligent flight surgeon console. *NASA Project Meeting*. February 26-March 1, 2002, Pensocola, Florida.
80. Brixey, J., Johnson, T. R., & Zhang, J. (2002). *Evaluating a medical error taxonomy*. UTH Research Day, November 1, 2002.

81. Brixey, J., Johnson, T. R., & Zhang, J. (2002). *Analysis of medical device errors using grounded theory*. UTH Research Day, November 1, 2002.
82. Rinkus, S., Johnson, K. A., & Zhang, J. (2002). *Application of a Human-Centered Distributed Information Design Methodology in the design of a collaborative workspace*. UTH Research Day, November 1, 2002.
83. Tang, S. T., Brixey, J., Paige, D., Chung, P., Ali, A., Johnson, T. R., & Zhang, J. (2002). *Patient safety in infusion pump purchasing*. UTH Research Day, November 1, 2002.
84. Zhang, J., Kathy Johnson, Jack Smith, & Jane Malin. (2001). Human centered intelligent flight surgeon console. *NASA Project Meeting*. September 18-19, 2001, NASA Ames.
85. Zhang, J., Patel, V. L., Smith, J. W., Turley, J. P., & Johnson, T. R. (2001). Human errors in medicine: Theoretical issues and practical implications. *The 3rd International Conference of Cognitive Science*. Beijing, China.
86. Zhang, J., Johnson, T. R., & Lu, G. (2001). The impact of representational formats on a dynamic decision making task. *The 3rd International Conference of Cognitive Science*. Beijing, China.
87. Zhang, J., Johnson, K. A., & Smith, J. W. (2001). *Human-centered intelligent flight surgeon console*. UTH Research Day. November 30, 2001.
88. Yang, L., Xing, Y., Johnson, C. M., Johnson, T. R., & Zhang, J. (2001). *A prototype of KINSYS*. UTH Research Day. November 30, 2001.
89. Wang, Y., Wang, H., Johnson, T. R., & Zhang, J. (2001). *A Cognitive Study of Memory for Spatial Relationships*. UTH Research Day. November 30, 2001.
90. Wang, H., Johnson, T. R., & Zhang, J. (2001). Spatial cognition: a modeling approach. *The 3rd International Conference of Cognitive Science*. Beijing, China.
91. Johnson, T.R., Zhang, J., and Johnson, C.M. (2001). Evaluating the usability of online courseware systems. *Advances in Teaching and Learning*, University of Texas Health Science Center at Houston.
92. Zhang, J.(2000). Design of Direct Interaction User Interfaces: Theory and Applications. *Smart Systems 2000*. September 5-8, 2000. Clear Lake, Texas.
93. Wang, H., Zhang, J., & Johnson, T. R. (2000). UECHO: A Human Model for Intelligent Systems Design. *Smart Systems 2000*. September 5-8, 2000. Clear Lake, Texas.
94. Johnson, C. M., Torkzadeh, R., Johnson, T. R., Zhang, J. (2000). Using the Cognitive Walkthrough Technique to Define Problems at The User Interface Level. *Smart Systems 2000*. September 5-8, 2000. Clear Lake, Texas.
95. Patel, V. L., Zhang, J. (2000). Heuristics and Medical Errors in Emergency Conditions. *Smart Systems 2000*. September 5-8, 2000. Clear Lake, Texas.
96. Wang, H., Zhang, J., & Johnson, T. R. (2000). Spatial Cognition in Virtual Environments. *Smart Systems 2000*. September 5-8, 2000. Clear Lake, Texas.
97. Zhang, J., Patel, V. L., Shortliffe, T., Freed, M., & Remington, R. (2000). The nature of human error: An emerging interdisciplinary perspective. *22nd Annual Conference of the Cognitive Science Society*. Philadelphia.
98. Johnson, C. M., Johnson, T. R., & Zhang, J. (2000). Increasing Productivity and Reducing Errors through Usability Analysis: A Case Study and Recommendations. *AMIA 2000*.
99. Aggarwal, V., Rajappan, S., Rudrapatna, V, Raval, B., Zhang, J. (2000). Continuous Speech Recognition in Radiology Reporting. *AMIA 2000*.

100. Wang, H., Zhang, J., & Johnson, T. R. (2000). Human belief revision and order effect. *22th Annual Conference of the Cognitive Science Society*. Philadelphia.
101. Chuah, J., Zhang, J., & Johnson, T. R. (2000). The Representational effect in complex systems: A distributed representation approach. *22nd Annual Conference of the Cognitive Science Society*. Philadelphia.
102. Johnson, T. R., Wang, H., & Zhang, J. (2000). Declarative and procedural learning in alphabetic retrieval. *22th Annual Conference of the Cognitive Science Society*. Philadelphia.
103. Cimino, J. J., Teich, J. M., Patel, V. L., & Zhang, J. (1999). What is wrong with EMR? *AMIA '99*. Washington, DC.
104. Zhang, J. (1999). The representational issues of health concepts: A cognitive perspective. *International Medical Informatics Association--Working Group 6 Meeting (Health Concept Representation and Natural Language Processing)*. Phoenix, Arizona, December 16-19.
105. Wang, H., Zhang, J., & Johnson, T. R. (1999). Order Effects in Human Belief Revision. *Proceedings of the 1999 Cognitive Science Society Conference*.
106. Zhang, J. What is wrong with EMR. *UTH Research Day*, October 8, 1999.
107. Johnson, T. R., Wang, H., & Zhang, J. (1999). Declarative and Procedural Learning in Alphabetic Retrieval. *1999 Cognitive Science Society Conference*. Simon Fraser University.
108. Zhang, J., Johnson, T. R., & Wang, H. (1998). Isomorphic representations lead to the discovery of different forms of a common strategy with different degrees of generality. *Twentieth Annual Conference of the Cognitive Science Society*.
109. Wang, H., Johnson, T.R., & Zhang, J. (1998). UEcho: A model of uncertainty management in human abductive reasoning. *Twentieth Annual Conference of the Cognitive Science Society*.
110. Johnson, T. R., Wang, H., & Zhang, J. (1998). Modeling speed-up and transfer of declarative and procedural knowledge. *Twentieth Annual Conference of the Cognitive Science Society*.
111. Zhang, J. *Problems with Electronic Medical Records*. UTH Research Day, October, 1999.
112. Johnson, T.R., & Zhang, J. *Hybrid learning model of tactical decision making*. Office of Naval Research PI Meeting, Houston, December 4-6, 1998.
113. Zhang, J. *Cognitive factors in the design of information displays*. UTH Research Day, October 11, 1998.
114. Wang, H., Zhang, J., & Johnson, T. R. *Order Effects in Human Belief Revision*. The Twenty-First Annual Conference of the Cognitive Science Society. Vancouver, Canada, August 19-21, 1999.
115. Chuah, J., Zhang, J., & Johnson, T. R. *Distributed Cognition of a Navigational Instrument Display Task*. The Twenty-First Annual Conference of the Cognitive Science Society. Vancouver, Canada, August 19-21, 1999.
116. Zhang, J. *The representation of relational information*. The 42nd Annual Conference of the Human Factors and Ergonomics Society. Chicago, October 9, 1998.
117. Zhang, J., Johnson, T. R., & Wang, H. *Isomorphic representations lead to the discovery of different forms of a common strategy with different degrees of generality*. The Twentieth Annual Conference of the Cognitive Science Society. Madison, Wisconsin, August 2, 1998.
118. Wang, H., Johnson, T.R., & Zhang, J. *UEcho: A model of uncertainty management in human abductive reasoning*. The Twentieth Annual Conference of the Cognitive Science Society. Madison, Wisconsin, July 31, 1998.

119. Johnson, T. R., Wang, H., & Zhang, J. *Modeling speed-up and transfer of declarative and procedural knowledge*. The Twentieth Annual Conference of the Cognitive Science Society. Madison, Wisconsin, July 31, 1998.
120. Chuah, J., Zhang, J., & Johnson, T. R. *Distributed cognition of a navigational Instrument display task*. The Twentieth Annual Conference of the Cognitive Science Society. Madison, Wisconsin, July 31, 1998.
121. Johnson, J., & Zhang, J. *A Hybrid Learning Architecture for Tactical Decision Making in Dynamic and Uncertain Environments*. Office of Naval Research Annual PI Meeting. Corvallis, Oregon, August 13, 1997.
122. Zhang, J., Johnson, T. R., Chuah, J., & McGrory, K. *Direct Interaction Representation of Cockpit Information Displays: The Tradeoff between Internal and External Representations*. The Nineteenth Annual Conference of the Cognitive Science Society. Palo Alto, August 8, 1997.
123. Wang, H., Johnson, T. R., & Zhang, J. *An Echo model of uncertainty management in human abductive reasoning*. The Nineteenth Annual Conference of the Cognitive Science Society. Palo Alto, August 8, 1997.
124. Wang, H., Johnson, T. R., & Zhang, J. *Hybrid Soar/Echo model of tactical decision making*. The Seventeenth SOAR Workshop, The Ohio State University, July 27, 1997.
125. Johnson, J., & Zhang, J. *A Hybrid Learning Architecture for Tactical Decision Making in Dynamic and Uncertain Environments*. Office of Naval Research Annual PI Meeting. San Diego, November 20, 1996.
126. Zhang, J., Johnson, T. R., Wang, H. *Frequency learning and order effect in belief updating*. The Eighteenth Annual Conference of the Cognitive Science Society. La Jolla, July 13, 1996.
127. Johnson, T. R., Zhang, J., & Wang, H. *A hybrid model of abductive reasoning*. The Eighteenth Annual Conference of the Cognitive Science Society. La Jolla, July 13, 1996.
128. Wang, H., & Zhang, J. *Multiple-level analysis of memory dissociations*. The Eighteenth Annual Conference of the Cognitive Science Society. La Jolla, July 13, 1996.
129. Johnson, J., & Zhang, J. *A Hybrid Learning Architecture for Tactical Decision Making in Dynamic and Uncertain Environments*. Office of Naval Research Annual PI Meeting. Washington DC, September 26, 1995.
130. Johnson, T. R., & Zhang, J. *A hybrid learning model of abductive reasoning*. The Fifteenth SOAR Workshop, Carnegie Mellon University, September 15, 1995.
131. Johnson, T. R., & Zhang, J. *A hybrid learning model of abductive reasoning*. 1995 International Joint Conference of Artificial Intelligence, Workshop on Connectionist-Symbolic Integration: From Unified to Hybrid Approaches, Montreal, Canada, August 11, 1995.
132. Zhang, J. & Wang, H. *The integration of internal and external information in numerical tasks*. The Seventeenth Annual Conference of the Cognitive Science Society, Pittsburgh, July 22, 1995.
133. Zhang, J., Johnson, T. R., & Wang, H. *Limited-lookahead learning*. The Fourteenth SOAR Workshop, University of Michigan, December 12, 1994.
134. Zhang, J., & Norman, D. A. *The representation of relational information displays*. The Sixteenth Annual Conference of the Cognitive Science Society, Atlanta, August 15, 1994.
135. Johnson, T. R., Zhang, J., & Wang, H. *Bottom-up recognition learning: A Compilation-*

Based Model of Limited-Lookahead Learning. The Sixteenth Annual Conference of the Cognitive Science Society, Atlanta, August 15, 1994.

136. Johnson, T. R., Zhang, J., & Wang, H. *Bottom-up recognition learning.* The Thirteenth SOAR Workshop, The Ohio State University, March 11, 1994.
137. Zhang, J. *The interaction between perceptual and cognitive processes in a distributed problem solving task.* 1993 AAAI Fall Symposium on Games: Planning and Learning. Research Triangle Park, North Carolina, October 10, 1993.
138. Zhang, J. & Norman, D. A. *A Cognitive Taxonomy of Numeration Systems.* The Fifteenth Annual Conference of the Cognitive Science Society, Boulder, Colorado, June 21, 1993.
139. Zhang, J. *The interaction of internal and external representations in a problem solving task.* The Thirteenth Annual Conference of Cognitive Science Society, Chicago, August 8, 1991.

IX. REVIEWER

Grant Review Panels:

NIH: Biomedical Information Science & Technology Initiative (BISTI)

NIH: National Library of Medicine Special Emphasis Panel (R21)

NIH: National Library of Medicine Special Emphasis Panel (K and G Grants)

NIH: National Library of Medicine Special Emphasis Panel (R13)

AHRQ, Health Information Technology

AHRQ Health Care Technology and Decision Sciences (HCTDS)

NIH: National Centers of Biomedical Computing Review Panel

NIH: NCMHD Loan Repayment Program

Netherlands Science Foundation

Expert Panels:

2005-2006 DHHS Office of the Assistant Secretary for Planning and Evaluation (ASPE), "Assessing the Economics of HIT Adoption and Successful Implementation in Ambulatory Care Settings".

2006 Team work in complex environment, National Research Council

Journals, Proceedings, and Books:

Guest-Editor:

Journal of Biomedical Informatics, Special Issue on Human-Centered Computing—Part 1

Journal of Biomedical Informatics, Special Issue on Human-Centered Computing—Part 2

Editorial Board:

Journal of Medical Informatics

Ad Hoc Reviewer:

Applied Ergonomics
Archives of Internal Medicine
Cognitive Science
Behavior & Information Technology
European Journal of Cognitive Psychology
Human-Computer Interaction
IEEE Transactions on Neural Networks
Instructional Science
International Journal of Human-Computer Studies
Journal of American Society of Information Science
Journal of American Medical Informatics Association
Journal of Biomedical Informatics
Journal of Experimental Psychology: Applied
Journal of Management Studies
Memory & Cognition
Perception
Quality and Safety in Health Care
Quarterly Journal of Experimental Psychology
Reliability Engineering & System Safety

Proceedings of the American Medical Informatics Association
Proceedings of the Annual Conference on Computer-Supported Cooperative Learning
Proceedings of the Cognitive Science Society
Proceedings of International Medical Informatics Association
Proceedings of International Conference of Cognitive Science
Proceedings of Symposium of the WG HCI&UE of the Austrian Computer Society: Usability and Human-Computer Interaction for Medicine and Health Care

Various books and book chapters

X. CONFERENCE PROGRAM COMMITTEES (National & International)

Member, Program Committee, *Usability & HCI for Medicine & Health Care*, 2007

Organizer: *Symposium on Information-Based Translational Medicine*, 2005

Member: Program Committee, *AMIA 2005*

Member: Program Committee, *2nd International Conference on Smart Graphics*, 2002

Member, Program Committee, *2001 Cognitive Science Conference*

Member, Program Committee, *2001 International Conference of Cognitive Science (ICCS)*

Chair: *Symposium on High-Level Cognition, ICCS2001*

Member, Program Committee, *2001 Human Systems Conference*

Member: Program Committee, *Smart Systems 2000*.

Chair: *Session on Human-Computer Interaction, Smart Systems 2000*

XI. TEACHING

Courses Taught:

Courses at University of Texas at Houston (Associate & Full Professor)

1. Health Data Displays (Information Visualization) (graduate)
2. Social Dynamics (Computer-Supported Collaborative Work) (graduate)
3. Health Interface Design (Human-Computer Interaction) (graduate)

Courses at Ohio State University (Assistant Professor)

1. Cognitive Psychology (undergraduate)
2. Neural Network in Psychology: Theory (undergraduate & graduate)
3. Neural Network in Psychology: Applications (undergraduate & graduate)
4. High-Level Cognition (graduate)
5. Distributed Cognition (graduate)
6. Situated Cognition (graduate)
7. Seminars in Cognitive/Experimental Psychology (graduate)
8. Knowledge Representations (graduate)
9. Complex Information Processing in Cognition (graduate)

Courses at University of California at San Diego (Teaching Assistant)

1. Introduction to Statistics (undergraduate)
2. Cognitive Engineering (undergraduate)
3. Cognitive Psychology (undergraduate)
4. Parallel Distributed Processing: Foundation (undergraduate)
5. Parallel Distributed Processing: Advanced (undergraduate)

Current Ph.D. Students (6+4)

Anna Chen, Arunkumar Srinivasan, Parsa Mirhaji, Zhong Xie, Jillian Webb, Min Zhu (As advisor)

Binbin Deng (Medical School), Sharon McLane, Adol Esquivel, Jose Florez Arango. (As committee member)

Ph.D. Dissertations: (As Advisor & Committee Member)

1. *Order Effects in Human Belief Revision*, Hongbin Wang, 8/98. (Department of Psychology, OSU). (Advisor)
2. *An Investigation into the Psychology of Spatial and Temporal Reasoning*, Anthony J. Blum, 1/93. (Department of Psychology, OSU). (Committee member)
3. *For Better or for Worse? The Advantages Model of Decision Strategy Selection*, Toni L. Blum, 6/94. (Department of Psychology, OSU). (Committee member)
4. *A Computational Model of Skill and Concept Acquisition in Abductive Problem Solving*, Ayse Bayazitoglu, 6/95. (Department of Computer and Information Sciences, OSU). (Committee member)

5. *Cognitive Convergence among Members of Newly Formed Groups*, Tim Crespino, 6/96. (Department of Psychology, OSU). (Committee member)
6. *A Dynamical Systems Approach to Adaptivity in a Manual Tracking Task*, Min-Ju Liao, 8/97. (Department of Psychology, OSU). (Committee member)
7. *Effects of Information Display on the Construction of Clinician Mental Models*. Constance M. Johnson, 10/03. (UT Houston) (Committee member)
8. *Cognitive impact of interactive multimedia*, Yanko Michea, 9/04. (UT Houston)
9. *Understanding Interruptions in Healthcare: Developing a Model*, Juliana J. Brixey. 3/06. (UT Houston) (Advisor)
10. *The interaction of internal and external information in relational data search*, Yang Gong. 7/06. (Advisor)
11. *Does the Message Matter? Enhancing Patient Adherence through Persuasive Messages*. Muhammad Walji. 12/07. (Advisor)

Master's Theses: (As Advisor & Committee Member)

At Ohio State University: MA in Psychology and Industrial Design

1. Hongbin Wang, June, 1995, *Multi-Level Analysis of Memory Dissociations*, 6/95.
2. Johnny Chuah, September, 1998, *Distributed Cognition of a Navigational Instrument Display Task*.
3. Terrell L. Childers, June, 1993, *Analogical Transfer in Problem Solving*.
4. Krishna Tateneni, June, 1994, *Cross-Modal and Cross-Formal Priming on Implicit Tests of Memory: An Application of the Process Dissociation Procedure*.
5. Robert H. Lewis, June, 1994, *Search Image Formation in a Word Detection Task*.
6. Sakol Teeravarunyou, June, 1997, *Recommendations for Using the Semantic Process in Children's Communication Software*.

At University of Texas at Houston: MS in Health Informatics

7. Molly C. Shek, RHA, Fall 2000, *Electronic Medical Record A Decision Support Tool*.
8. David M. Lynch, B.S.N., Summer 2001, *An Overview of Change Management*.
9. Jianguo Xiao, MD, PhD, Spring 2001, *Application of Geographic Information System (GIS) in Infectious Disease Surveillance and Control*.
10. Nicole M. Follansbee MS, MSN, MPH, RN, Spring 2001, *The Health Information Portability and Accountability Act (HIPAA) And the Implications for Nurses And the Implications for Nurses*.
11. Rita Torkzadeh, M.S., Spring 2001, *Integrating Health Promotion and Informatics: Developing Interactive Health Information Systems Tailored To Healthcare Consumers' Needs*.
12. Wei-Chih Clara Chang, MPH, Spring 2001, *Critical Components Associated with Hospital-wide Filmless PACS Operation and Digital Image Management*
13. Minh Dai Dang, BA, Fall 2001, *Tele-ophthalmology: Diabetic Retinopathy Imaging in a Correctional Care Environment – A Store-and Forward Non-mydratic Digital Camera Remote Care Study Preliminary Analysis*.

14. Fanny Hawkins, Ed.D., Fall 2001, *Clinical Documentation Before and After Implementing an EMR – An Empirical Study*.
15. Martha A. Koperwhats, Summer 2002, *Application of Human Factor Engineering to Selection and Implementation Planning of a Voice Recognition System*.
16. Yue Wang, M. S., Summer 2002, *Towards an integrated data environment: a review of database development in bioinformatics*.
17. Jung-Wei Chen, DDS, MS, Spring 2002, *Teledentistry and its use in education*.
18. Vijaya Mekala, BHMS, Spring 2002, *Computerization of clinical guidelines-A review on clinical care algorithm*.
19. William Holtkamp, RNBC, BSN, Spring 2002, *Integrated Health Information Systems: Who, What, Why, and How*.
20. Stacey Barnes, RN, Spring 2002, *The Nurse as Informatics Project Manager: Applying Nursing to Information Systems and Their End Users*.
21. Lan Yang, Fall 2002, *Computer simulation and modeling of clinical trials in drug development*.
22. Yan Xing, M. D., Spring 2003, *Bayesian Probabilistic Network Modeling of Risk Assessment for Patients with Melanoma*.
23. Fiona Nunes, Spring 2003, *Implementation of information systems in healthcare: A framework for success*.
24. Andy Nguyen , Fall 2003, *A Model of Clinical Decision Support Systems and Supporting Clinical Information System Objects*.
25. Ashwin Jadhav, MD , Fall 2003, *Arden Syntax for Medical Logic Modules: Examining state of the Standard*.
26. Susan Rinkus, RN, Fall 2003, *Distributed cognition in knowledge management design*.
27. Jamie A. Rukab, Fall 2003, *A Framework of Interruptions in Distributed Team Environments*.
28. Dawn Marie Shelton, RN, MS , Spring 2004, *A Roadmap for Evaluation and Return On Investment for a Clinical Documentation System In a Pediatric Critical Care Setting*.
29. Indreshpal Kaur, PhD, Spring 2004, *Distributed Database Systems in Healthcare: Need for Standards*.
30. Sunay Ravindra, MBBS, Spring 2004, *Automatic and User-Assisted Report generation in Healthcare*.
31. Ye Yuan. *High-throughput automated primer design*. 2004.
32. Tao Zhang, MD, MS, Spring 2004, *An Information Flow Analysis of a Distributed Information System for Space Medical Support*.
33. Down Shelton. *A Roadmap for Evaluation and Return On Investment for a Clinical Documentation System In a Pediatric Critical Care Setting*. 2004.
34. Roland Tadoum, Spring, 2005, *Predictors of childhood sexual and physical abuse*.
35. Lynne Chandler, Spring 2005, *Methods for Evaluation within an Iterative Prototype Life-Cycle*.
36. Helen Strown-George, Spring 2005, *The people vs. change: How an organization can effectively implement change by focusing on its employees*.
37. Pallavi Mokkarala, Summer 2005, *Development of comprehensive medical error ontology*.
38. Leslie Hinds, Spring 2006, *Telemedicine Preparedness in Texas to Meet the Needs of the Medically Underserved*.

38. Jun Li, Spring 2006, *Developing a PDA-based Electronic Medical Record Prototype for a Telemedicine System*.
39. Kamila Smolji, Spring 2006, *Information management: Searching for the right model*.
40. Miko Watkins, Spring 2006, *Evaluating a PDA as an emergency medical record for EMS personnel*.
41. Ritu Srinivastava. *Web-based application for interactive visualization and analysis of diabetes data from an EMR*. Spring, 2006.
42. Soni Gupta. *Harnessing the Power of Mobile Computing through Workflow Management*. 2007.
43. Ming Ying Lisa Chu-Weininger. *Tele-psychiatry for the Assessment of Patient Admission: Costs, Benefits, and Provider Job Satisfaction*. 2007.
44. Xing Wang. *A Comparison of Local Field Potentials and Spiking Activity to Predict Perpetual Report During Bistable Visual Simulation*. 2007.
45. M. S. Anwar. *A Process Analysis Approach to Evaluating a Clinical Decision Support System: The AVIATOR Model*. 2007.
46. Sharon McLane. *Medication Administration Error: A Review of the Literature and Recommended Future Direction*. 2007.
47. Lei Xu. *BSMART: a MATLAB/C toolbox for analysis of multi-channel neural data*. 2007.
48. Soni Gupta. *Harness the power of mobile computing through workflow management*. 2007.

Current Master's Advisees: 12

Awards to Graduate Students:

1. **Constance M. Johnson**, National Research Service Award, National Library of Medicine, NIH. "Applying Usability Engineering To Improve a Computational Knowledge-Based System", 3/1/01-2/28/03
2. **Hongbin Wang**, *Marr Prize for Best Student Paper*, "UEcho: A Model of Uncertainty Management in Human Abductive Reasoning". 20th Annual Conference of Cognitive Science Society. 1998.
3. **Juliana Brixey**, Environmental Awareness Scholarship, 2001.
4. **Juliana Brixey**, John P. McGovern Scholarship, 2001.
5. **Juliana Brixey**, NLM Keck Pre-doctoral Fellowship, 3/1/02-2/28/05.
6. **Jung-Wei Chen**, D.D.S., M.S., Assistant Clinical Professor, won first place in Web Based supplemental material in Instructional Computing in Dental Education at the 2002 meeting of the American Dental Education Association.
7. **Jung-Wei, Chen**, D.D.S., M.S., Assistant Clinical Professor, Third Place, Best Student Poster, UTH Research Day, 2004.
8. **Jung-Wei, Chen**, D.D.S., M.S., Assistant Clinical Professor, NLM Keck Pre-doctoral Fellowship, 7/1/06-6/30/08.
9. **Philip Chung**, Finalist for best student paper, AMIA, 2003.
10. **Susan M. Rinkus**, The American International University in London, Comparative Health Internship Programme Scholarship, 2002.
11. **Susan M. Rinkus**, UT-Houston Environmental Awareness Scholarship, 2002.
12. **Susan M. Rinkus**, UT-Houston Student Council Recognition Award, 2002.

13. **Susan M. Rinkus**, UT-Houston Women in Science Research Travel Award, 2001.
14. **Susan M. Rinkus**, UT-Houston Women in Science Research Travel Award, 2002.
15. **Susan M. Rinkus**, Nursing Informatics Work Group Award, AMIA, 2003
16. **Susan M. Rinkus**, Finalist for best foundation paper, AMIA, 2003
17. **Tao Zhang**, School of Health Information Sciences Competitive Academic Scholarship, 2003.
18. **Tao Zhang**, School of Health Information Sciences Best Student Poster Competition (2nd place), 2003.
19. **Muhammad Walji**, School of Health Information Sciences Best Student Poster Competition (1st place), 2003.
20. **Muhammad Walji**, School of Health Information Sciences Best Student Poster Competition (3rd place), 2003.
21. **Muhammad Walji**, School of Health Information Sciences Best Student Poster Competition (3rd place), 2005.
22. **Muhammad Walji**, MedInfo, Best Scientific Paper Competition, Bronze Award, 2004.
23. **Muhammad Walji**, HIMSS Foundation PhD Scholarship, 2006
24. **Muhammad Walji**, UT Golf Scholarship, 2007.
25. **Muhammad Walji**, NLM Keck Pre-doctoral Fellowship, 1/1/03-12/31/2006
26. **Lei Xu**, UT Golf Scholarship, 2007
27. **Xiaozhou Sher Tang**, Committee on the Status of Women Travel Scholarship, 2001
28. **Xiaozhou Sher Tang**, HIMSS Scholarship, 2002
29. **Yang Gong**, Dean's fellowship, 2001.
30. **Yang Gong**, Keck Foundation Pre-doctoral Fellowship, 3/1/02-2/28/05.
31. **Yang Gong**, UT Golf Scholarship, 2002-2003.
32. **Yang Gong**, UT Golf Scholarship, 2004-2005.
33. **Yang Gong**, Student Traveling Award, 2004, UT SIC
34. **Jillian Webb**, M.S., NLM Keck Pre-doctoral Fellowship, 6/15/07-6/14/10.
35. **Zhong Xie**, Keck Foundation Pre-doctoral Fellowship, 1/1/03-12/31/04.
36. **Jose Florez**, The Minority Faculty Association Scholarship. 2007

Job Placements of Former MS and PhD Students (selected out of 59):

Hongbin Wang, Ph.D., M.S., Tenured Associate Professor, School of Health Information Sciences at UT Houston

Constance M. Johnson, Ph.D., RN., MS, Assistant Professor, School of Nursing, Duke University.

Yang Gong, Ph.D., M.S., Assistant Professor, Dept of Health Informatics, University of Missouri at Columbia

Juliana Brixey, Ph.D., M.S., RN. Assistant Professor, University of Kansas.

Muhammad Walji, Ph.D., Assistant Professor, Dental Branch at UT Houston

Anna W. Chen, DDS, M.S., Assistant Professor and Director of Residency Program, Dental Branch of at UT Houston

Jamie Rukab, MS, Lockheed Martin

Min-Ju Liao, Ph.D. Research Scientist, NASA Ames

William Holtkamp, R.N., M.S., Cerner Corp.

Kevin McGregor, MS, Lucent Technology

Clara W. Chang, MS, National Institute of Health, Taiwan
Dianna Roberts, MS, MD Anderson Cancer Center
Tao Zhang, MS, MD Anderson Cancer Center
Yan Xing, MS, MD Anderson Cancer Center
Martha Koperwhats, MS, MD Anderson Cancer Center
Jianguo Xiao, postdoc, Medical School at UT Houston
Daivd Lynch, MS, RN, St. Luke's hospital
Stancy Barnes, MS, RN, The Institute for Rehabilitation and Research
Rita Torkzadeh, MS, WorldDoc, Inc.
Lan Yang, MS, Advanced Biologics, Inc.
Susan Rinkus, MS, RN, Senior System Analyst, St. Luke's Hospital.
Pallavi Mokkarala, MS, INFOSYS
Roland Tadoum, MS, Christus Healthcare

XII. ADMINISTRATIVE SERVICE

University Level:

Member, Scientific Review Committee, UTH. 2000-2002.
 Member, Minority's Affair Committee, UTH. 1998-current.
 Member, Nominating Committee, UTH. 1999-2001.
 Chair, Nominating Committee, UTH. 2001-2002.
 Member, Task Force for University Strategic Plan on Research, UTH, 2002.
 Member, Research Council, UTH. 2003-present
 Member, Task Force for Advanced Initiatives, UTH, 2005.

School and Department Level:

Associate Dean for Research, SHIS, UTH, 2002-present
 Chair, Faculty Governance Organization, SHIS, UTH, 1999-2002.
 Chair, Faculty Search Committee, SHIS, UTH. 1999-2000, 2001-2002, 2002-2003.
 Chair, Departmental Faculty Committee, SHIS, UTH. 2000-present
 Coordinator, Health Informatics Speakers Series, SHIS, UTH. 1998-2000.
 Member, Scholarship Committee, SHIS, UTH, 2001.
 Member, Speakers Committee, Department of Psychology, OSU. 1993-1998.
 Member, Undergraduate Committee, Department of Psychology, OSU.
 Graduate Advisor, GRADCOG, Center for Cognitive Science, OSU.

XIII. CONSULTING ACTIVITIES

Apple, Boeing, Merck, Medtronic, Microsoft, askRed.com, Prometheus, HAM/TMC Library, Kingstar Winning, etc.