

**Robert B. Allen**

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## EDUCATION:

- 1979                      PhD, MA, University of California at San Diego,  
  (Experimental) Psychology.  
1973                      BA, Reed College, (Experimental) Psychology.

## EMPLOYMENT:

- 2017– 2018              Visiting Professor, Department of Library and Information Science,  
  Yonsei University, Seoul, Korea  
2014 – 2017              Associate Professor, Department of Library and Information Science,  
  Yonsei University, Seoul, Korea  
2013 – 2014              Visiting Foreign Research Scholar, Research Center for Knowledge  
  Communities, University of Tsukuba, Tsukuba, Japan  
2012                        Visiting Professorial Fellow, School of Information Management,  
  Victoria University of Wellington, Wellington, NZ  
2004 – 2011              Associate Professor, College of Information Science and Technology,  
  Drexel University, Philadelphia, PA, USA  
1999 – 2004              Professor of Practice, College of Information Studies, University of  
  Maryland, College Park, MD, USA  
1998 – 1999              Visiting Professor, College of Library and Information Services,  
  University of Maryland, College Park, MD, USA  
1997 – 1998              Senior Scientist (Director), Bellcore (Telcordia), Morristown, NJ, USA  
1997 – 1998              Adjunct Professor, Computer and Information Science, New Jersey  
  Institute of Technology, Newark, NJ, USA  
1997                        Adjunct Professor, Department of Psychology, Rutgers University –  
  Newark, Newark, NJ, USA  
1984 – 1997              Research Scientist, Bellcore, Morristown, NJ., USA  
1978 – 1983              Member Technical Staff, Bell Laboratories, Murray Hill, NJ., USA  
1974 – 1975              Research Assistant, McGill University, Department of Psychology,  
  Montreal, PQ, Canada

CITIZENSHIP:              USA

## EDITED CONFERENCE PROCEEDINGS:

- Allen, R.B., Hunter, J., and Zeng, M. (eds.), Proceedings 2015 International Conference  
on Asian Digital Libraries, LNCS #9469, Dec. 2015.

Allen, R.B., and Rasmussen, E. (eds.), ACM International Conference on Digital Libraries, Philadelphia, ACM, Jun. 1997.

Lochovsky, F.H., and Allen, R.B. (eds.), Proceedings of the ACM SIGOIS and IEEE CS TC-OA Conference on Office Information Systems, Cambridge, MA, ACM, Apr. 1990.

Allen, R.B. (ed.), Proceedings of the ACM SIGOIS and IEEECS TC-OA 1988 Conference on Office Information Systems, Palo Alto, ACM, Mar. 1988.

#### CHAPTERS IN BOOKS:

Allen, R.B., Electronic newspapers (major entry) *Encyclopedia of Database Systems*, L. Liu and T. Ozsu, editors, Springer, 2009.

Allen, R.B., Mental models and user models. *Handbook of Human-Computer Interaction* (2<sup>nd</sup> edition) Edited by: M. Helander, T.K. Landauer, and P. Prabhu, Elsevier Science, 1997, 49-63.

Allen, R.B., Cognitive factors in human interaction with computers. *Directions in Human/Computer Interaction*, Ablex: Norwood, NJ, 1983, 1-26; Edited by: A. Badre and B. Shneiderman, also in *Behaviour and Information Technology* 1, 1982, 257-278.

#### ARTICLES IN REFEREED JOURNALS:

Kunkle, W.A., and Allen, R.B., The impact of different teaching approaches and languages on student learning of introductory programming concepts. *ACM Transactions on Computing Education (TOCE)*, 16(1), 3.

Zhu, W.Z. and Allen, R.B., Document clustering using the LSI Subspace Signature Model, *JASIST*, 2013, 64(4), 844-860.

Waters, J. and Allen, R.B., Music metadata in a new key: Metadata and annotation for music in a digital world, *Journal of Library Metadata*, 2010, 10(4), 238-256.

Anderson, S. and Allen, R.B., Envisioning the archival commons, *American Archivist*, Fall, 2009, 72(2), 383-400.

Allen, R.B. and Johnson, K., Preserving digital local news, *Electronic Library*, 2008, 26 (3), 387-399.

- Song, M., Song, I.Y., Hu, X., and Allen, R.B., Integration of association rules and ontologies for semantic query expansion, *Data Knowledge and Engineering*, 63(1), 2007, 63-75.
- Diker, V., and Allen, R.B., XMILE: XML as an interchange language for system dynamics models, *System Dynamics Review*, 21(4), 2005, 351-359 (technical note).
- Hodge, G., Templeton, C., and Allen, R.B., A Metadata element set for project documentation, *Science and Technology Libraries*, 25(4), 2005, 5-23.
- Allen, R.B., Using information visualization to support access to archival records, *Journal of Archival Organization*, 3(1), 2005, 37-49.
- Allen, R.B. and Wu, Y.J., Metrics for the scope of collections, *Journal of the American Society for Information Science and Technology*, 55(10), 2005, 1243-1249.
- Kumar, V., Furuta, R., and Allen, R.B., Interactive interfaces for knowledge-rich domains, *Electronic Publishing*, 8, 1996, 235-246.
- Allen, R.B., Retrieval from facet spaces, *Electronic Publishing*, 8, 1996, 247-257.
- England, P., Allen, R.B., and Underwood, R., RAVE: RealTime services for the Web, *Computer Networks and ISDN Systems*, 28 (1996), 1547-1558.
- Allen, R.B., User models: Method, theory, and practice. *International Journal of Man-Machine Studies*, 32, 1990, 511-543.
- Allen, R.B., CLUES: Connectionist language users, *Connection Science*, 2, 1990, 279-311.
- Allen, R.B. and Alspector, J., Learning of stable states in stochastic asymmetric networks. *IEEE Transactions on Neural Networks*, 1, 1990, 233-238.
- Allen, R.B., Composition and editing of spoken letters, *International Journal of Man-Machine Studies*, 19, 1983, 181-193.
- Breckler, S.J., Allen, R.B., and Konecni, V.J., Mood-optimizing strategies in aesthetic-choice behavior. *Music Perception*, 2, 1983, 459-470.
- Allen, R.B., Cognitive factors in the use of menus and trees: An experiment, *IEEE Journal on Selected Areas in Communications SAC-1*, 1983, 333-336.
- Allen, R.B. and Scerbo, M.W., Details of command-language keystrokes, *ACM Transactions on Office Information Systems*, 2, 1983, 159-178.
- Allen, R.B., Patterns of manuscript revisions, *Behaviour and Information Technology*, 1, 1982, 177-184.

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- Ebbesen, E.B. and Allen, R.B., Cognitive processes in implicit personality inferences, *Journal of Personality and Social Psychology* 37, 1979, 471-488.
- Allen, R.B., FOEP, A Fortran-based experimental package, *Behavior Research Methods and Instrumentation*, 10, 1978, 63-64.
- Millenson, J.R., Allen, R.B., and Pinker, S., Adjunctive drinking during variable and random interval food reinforcement schedules, *Animal Learning and Behavior*, 15, 1977, 285-290

#### REFEREED CONFERENCE AND WORKSHOP PAPERS:

- Allen, R.B., and Park, JH., Coordinating and Integrating Faceted Classification with Rich Semantic Modeling, Workshop on Ontology and Rich Semantics, Nanyang Technological University, Singapore, 2018, arXiv: 1809.09548, DOI: 10.13140/RG.2.2.23766.70726
- Allen, R.B., Modeling Rich Semantics, Rich Semantics and Direct Representation for Digital Collections, Toronto, June 2017.
- Allen, R.B., From Ontology to Structured Applied Epistemology, Rich Semantics and Direct Representation for Digital Collections, Tsukuba, Dec. 2016, arXiv 1610.07241v2
- Allen, R.B., Issues for the Direct Representation of History, ICADL, 2016, LNCS
- Allen, R.B., Song, H.N., Lee, B.E., and Lee, J.Y., Using Procedures to Describe Scholarly Information Resources, ICADL. 2016, LNCS
- Chu, Y.M., and Allen. R.B., Formal Representation of Social Roles and Functions for the Description of History, TPDFL, 2016, LNCS
- Allen, R.B., Repositories Based on Direct Semantic Representations, NKOS, Dec. 2015. arxiv: 1512.09070
- Allen, R.B., and Chu, Y.M., Architectures for Complex Semantic Models, IEEE Big Data and Smart Computing, 2015, DOI: 10.1109/35021BIGCOMP.2015.7072809

- Chu, Y.M. and Allen, R.B., Structured Descriptions of Roles, Activities, and Procedures in the Roman Constitution, IRCDL, 2015. ArXiv: 1502.04108
- Zhu, W., and Allen, R.B., Active Learning for Text Classification Using the LSI Subspace Signature Model, DSAA, 2014, doi:10.1109/DSAA.2014.7058066
- Allen, R.B., and Chu, Y.M., Toward Full-Text Historical Digital Libraries, ICADL 2014, LNCS 8839, 2014, 218-226.
- Allen, R.B., Frame-based models of communities and their history. *Histoinformatics*, 2013, Kyoto, LNCS 8359, 2014.
- Anderson, S.A. and Allen, R.B., Malleable finding aids. *Theory and Practice of Digital Libraries (TPDL)*, 2012, 402-407, LNCS, (short paper).
- Allen, R.B., Visualization, causation, and history. *iConference*, 2011. DOI: 10.1145/1940761.1940835
- Allen, R.B. and Sieczkiewicz, R., How historians use historical newspapers, *ASIST*, 2010 (short paper).
- Zarro, M. and Allen, R.B., User-contributed descriptive metadata for libraries and cultural institutions. *European Conference on Digital Libraries (ECDL) 2010* (short paper), 46-54.
- Allen, R.B. and Hall, C. Automated processing of digitized historical newspapers beyond the article level: finding sections and regular features. *International Conference on Asian Digital Libraries (ICADL)*, LNCS 6102/2010, 2010, 91-101.
- Allen, R.B., Improving access to digitized historical newspapers with text mining, coordinated models, and formative user interface design. *IFLA International Newspaper Conference: Digital Preservation and Access to News and Views*, New Delhi, 2010, (abstract reviewed), 54-59.
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- Song, M., Song, I.Y., Allen, R.B., and Obradovic, Z., Keyphrase extraction-based query expansion in digital libraries, *ACM/IEEE JCDL*, 2006, 202-209.
- Zhu, W., Xu, X., Hu, X., Song, I.Y., and Allen, R.B., Using UMLS-based re-weighting terms as a query expansion strategy, *Proceedings of IEEE Granular Computing*, 2006, 217-222.
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- Song, M., Song, I.Y., Hu, X., and Allen, R.B., Semantic query expansion combining association rules with ontologies and information retrieval techniques, *Proceedings of the 7th International Conference on Data Warehousing and Knowledge Discovery (DaWaK 2005)* (Lecture Notes in Computer Science, Vol. 3589), Copenhagen, Denmark, Aug. 2005, 326-335.
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- Allen, R.B., A multi-timeline interface for browsing historical newspapers. *ACM/IEEE Joint Conference on Digital Libraries*, 2005, 260-261 (short paper).
- Song, M., Song, I.Y., Hu, X., and Allen, R.B., An automatic unsupervised querying algorithm for efficient information extraction in a biomedical domain. In: T.B. Ho, D. Cheung, and H. Li (editors), *LNCS Transactions on Computational Systems Biology: Advances in Knowledge Discovery and Data Mining, 9th Pacific-American Conference on Data Discovery, (PAKDD)*, 2005, 173.

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- Allen, R.B., Developing a query interface for an event gazetteer, *ACM/IEEE Joint Conference on Digital Libraries*, 2004, 72-73 (short paper).
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- Allen, R.B., Murray, G.C., and Yang, H., WQ: An Environment for teaching information access skills, *EdMedia*, Jun. 2002, Denver, 34-39.
- Allen, R.B. and Puntai, W., A digital library-based recommender service for multimedia development in a learning community, *European Conference on Computer-Supported Collaborative Learning*, Mar. 2001, Maastricht, Netherlands, 37-42.
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- Kumar, V., Furuta, R., and Allen, R.B., Metadata visualization for digital libraries: Interactive timeline editing and review. *ACM Digital Libraries*, 1998, 126-133.
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- Dailianas, A., Allen, R.B., and England, P., Comparisons of automatic video segmentation algorithms, *Proceedings SPIE Photonics East '95: Integration Issues in Large Commercial Media Delivery Systems*, Philadelphia (Oct. 1995).
- Allen, R.B., Interface issues for interactive multimedia documents, *Forum on Research and Technology Advances in Digital Libraries*, Edited by N. Adam et al., 1995, Springer-Verlag (LNCS).
- Allen, R.B., Timelines as information system interfaces. *Proceedings International Symposium on Digital Libraries*, (Tsukuba, Japan, Aug. 1995), 175-180.
- Allen, R.B., Two digital library interfaces that exploit hierarchical structure, *Proceedings of DAGS95: Electronic Publishing and the Information SuperHighway* (Boston, May 1995), 134-141.
- Allen, R.B., Navigating and searching in digital library catalogs, *Proceedings Digital Libraries '94* (College Station, TX, Jun. 1994), 95-100.
- Allen R.B., Obry, P.D., and Littman, M., An interface for navigating clustered document sets returned by queries. *Conference on Organizational Computing Systems* (Milpitas, Nov. 1993), 166-171.
- Allen, R.B. and Kamm, C.A., A recurrent neural network for word identification from continuous phoneme sequences, R. Lippmann, J. Moody, and D. Touretzky (Eds.), *Advances in Neural Information Processing Systems 3* (Morgan Kaufmann: San Mateo) 1991, 206-212.
- Alspector, J., Allen, R.B., Jayakumar, A., Zeppenfield, T., and Meir, R., Relaxation networks for large supervised learning problems. R. Lippmann, J. Moody, and D. Touretzky (Eds.), *Advances in Neural Information Processing Systems 3* (Morgan Kaufmann: San Mateo) 1991, 1015-1021.
- Allen, R.B., Mechanisms of temporal integration and knowledge representation with simple recurrent networks, *Proceedings of the Cognitive Science Society*, (Chicago, Aug. 1991), 648-652.
- Ghahramani, Z. and Allen, R.B., Temporal processing with connectionist networks. *International Joint Conference on Neural Networks* (Seattle, 1991), 541-546.
- Allen, R.B., Kamm, C.A., and James, S.B., A recurrent neural network for word identification from continuous phoneme strings, *International Conference on Spoken Language Processing* (Kobe, Nov. 1990), 1037-1040.
- Allen, R.B., Learning to solve simple analogies. *International Neural Network Conference* (Paris, Jul. 1990) 537-540.



- Allen, R.B., Using verbs and remembering the order of events, *International Joint Conference on Neural Networks* (Washington, DC, Jan. 1990), 1/210-213.
- Allen, R.B., and Kaufman, S.M., Identifying and discriminating temporal events with connectionist language users, *IEE Conference on Artificial Neural Networks* (London, Oct. 1989), 284-286.
- Allen, R.B. and Riecken, M.E., Reference and connectionist language users, R. Pfeifer, Z. Schreter, F. Fogelman-Soulie, and L. Steels (Eds.), *Connectionism in Perspective* (Amsterdam: Elsevier), 1989, 301-308.
- Alspector, J., Gupta, B., and Allen, R.B., Performance of a stochastic learning microchip, D. Touretzky (Ed.), *Advances in Neural Information Processing* (AIP Press), 1988, 748-760.
- Allen, R.B., Sequential connectionist networks for answering simple questions about a microworld. *Proceedings of the Cognitive Science Society* (Montreal, Aug. 1988), 489-495.
- Alspector, J., Allen, R.B., Hu, V., and Satyanarayana, S., Stochastic learning networks and their electronic implementation, *Proceedings Conference on Neural Information Processing Systems (NIPS)* (Denver, 1987), 9-21.
- Allen, R.B., Several studies on natural language and back-propagation, *International Conference on Neural Networks* (San Diego, Jun. 1987), 2/335-341.
- Alspector, J. and Allen, R.B., A neuromorphic VLSI learning system, P. Losleben (Ed.): *Stanford Conference on Advanced Research in VLSI* (MIT Press, Cambridge, MA), 1987, 459-470.
- Allen, R.B. and Breckler, S.J., Human factors of telephone-mediated interactive electronic games, *ACM SIGPC/SIGSMALL* (San Diego, Dec. 1983), 200-205.
- Allen, R.B., Cognitive factors in the use of menus and trees: An experiment. *Conference Record NTC '81* (New Orleans, Dec. 1981), F2.5.1-F2.5.5.
- Maxemchuk, N.F., Wilder, H.A., and Allen, R.B., Experiments in editing speech. *National Electronics Conference* (Chicago, Oct. 1980), 228-232.
- Allen R.B. and Maxemchuk, N.F., The composition and editing of speech: Subjective tests. *National Telecommunications Conference* (Houston, Dec. 1980).

## PATENT:

Allen, R.B. and Alspector, J., Neuromorphic learning systems US Patent #4874963, Oct. 17, 1989 (correction Feb. 22, 1994) (named one of the 100 Best Inventions of 1989 by *Omni Magazine*).

## EDITORIALLY REVIEWED ARTICLES:

Allen, R.B., Toward an interactive directory for Norfolk, Nebraska: 1899-1900, *IFLA Newspaper and Genealogy Sections Satellite Conference*, Singapore, 2013, *arXiv:1308.5395*

Allen, R.B., Model-oriented information organization: Part 1, The Entity-Event Fabric, *D-Lib Magazine*, Jul. 2013

Allen, R.B., Model-oriented information organization: Part 2, Discourse Relationships, *D-Lib Magazine*, Jul. 2013

Allen, R.B., Weaving content with coordination widgets, *D-Lib Magazine*, Nov. 2011.

Allen, R.B., Developing a knowledge-base to improve interaction with collections of historical newspapers, *IFLA General Conference*, Aug. 2011, San Juan, PR.

Allen, R.B., Model-oriented scientific research reports, *D-Lib Magazine*, May/June. 2011.

Senserini, A., Allen, R.B., Hodge, G., Anderson, N., and Smith, D., Archiving and accessing Web pages: The Goddard Library Web capture project, *D-Lib Magazine*, Nov. 2004.

## PUBLISHED REVIEWS

Allen, R.B., *The Electronic Library*, 2014 (*in press*), Collaborative Research in the Digital Humanities, (Ed) M. Deegan and W. McCarty, Ashgate, 2012.

Allen, R.B., *The Electronic Library*, 2013, Review of: *Semantic Web technologies and social searching for librarians*. By Robin M Fay and Michael P Sauters. (The Tech Set; 20) London: Facet, 2012.

Allen, R.B., Review of L.A. Miller's "Natural language programming: styles, strategies, and contrasts," *Computing Reviews*, Mar. 1982, 170.

## POSTERS AND DEMONSTRATIONS:

- An, J., and Allen, R.B., Mining variations in Hangul orthography (poster), *ICADL*, 2015.
- Allen, R.B., Toward a model-oriented research reports (poster), *ICADL*, 2011.
- Horowitz, M.D. and Allen, R.B., Virtual experience as a proxy for numeracy in probability communication (poster) *Society for Medical Decision Making*, Chicago, 2011.
- Horowitz, M.D. and Allen, R.B., Multistage virtually experienced patient decision making (poster) *Society for Medical Decision Making*, Toronto, 2010.
- Anderson, S.A. and Allen, R.B., Developing malleable finding aids with wikis. (poster) *Society of American Archivists Research Forum*, Washington, DC, 2010.
- Sieczkiewicz, R. and Allen, R.B., Historian's use of newspapers. (poster) *Society of American Archivists Research Forum*, Washington, DC, 2010.
- Waters, J. and Allen, R.B., What should we teach about METS in a digital preservation course? (poster) *DigCCurr*, Chapel Hill, NC, 2009.
- Allen, R.B., Highly structured scientific publications. *ACM/IEEE Joint Conference on Digital Libraries* (poster) Jun. 2007, 472.
- Achananuparp, P., Waters, J., McCain, K.W., and Allen, R.B., Towards a curriculum for the management of digital information: tools to support collaborative metadata development, *ASIST* (poster) Nov. 2006.
- Achananuparp, P., McCain, K.W., and Allen, R.B., A tool for teaching the principles of image metadata generation, *ACM/IEEE JCDL* (poster) 2006, 341.
- Zhu, W., Chen, C., and Allen, R.B., Visualization of enterprise social network through email conversations (demo) *ACM/IEEE JCDL*, 2006, 383.
- Zhu, W., Song, M., and Allen, R.B., TREC 2005 Enterprise track results from Drexel, *TREC 2005*, (poster) NIST, Gaithersburg, MD.
- Allen, R.B., Digital Libraries -- A Cornerstone of the Internet information infrastructure. *Asian Digital Library Conference* (invited) Seoul, Korea, Dec. 2000.
- Singh, Y. and Allen, R.B., Digital library experiments with the archival collection of the University of Roorkee, *CALIBER-2000*, Feb., 2000, Madras, India.
- Allen, R.B., Electronic proceedings (EPROCS) for IWANNT'93, *ACM SIGCHI Conference Companion* (Boston, Apr. 1994), 287-288.

Lochbaum C.C., Remde, J., and Allen, R.B., SuperBook demonstration, *ACM Hypertext* (demo) Seattle, 1993.

Allen, R.B., On the evaluation of text editors, (Technical Correspondence) *Communications of the ACM*, Apr. 1985, 324-325.

Allen, R.B., Working paper on ethical issues for research on the use of computer services and interfaces. *SIGCHI Bulletin* 16, 1984, 12-15.

#### OTHER PUBLICATIONS IN ARXIV

Allen, R.B., and Jones, T.K., XFO: Toward Programming Rich Semantic Models, arXiv:1805.11050 (Apr 2018), DOI: 10.13140/RG.2.2.28704.69127

Allen, R.B., and Kim, Y.H., Semantic Modeling with Foundries, arXiv:1801.00725, Dec 2017/Jan 2018

Allen, R.B., Repositories with Direct Representation, arXiv:1512.09070, Dec 2015.

Allen, R.B., Supporting Structured Browsing for Full-Text Scientific Research Reports, arXiv 1209.0036, Aug 2012.

#### EDITORIALS AND OTHER PUBLICATIONS:

Allen, R.B., Rich Semantics and Direct Representation for Digital Collections, JCDL, 2017, 348-349.

Allen, R.B., CISForum, *Computer Science Teachers Association (CSTA) Voice*, Spring 2006.

Allen, R.B., Editorial and Charter. *ACM TOIS* 12, 1994, 1-3.

Allen, R.B., Editorial: Computer-Human Interaction and ACM TOIS. *ACM TOIS* 9, 1991, 97.

Allen, R.B., Editorial: A New Name -- ACM Transactions on Information Systems, *ACM TOIS* 7, 1989, 1.

Allen, R.B., Editorial: Electronic Publication of Manuscripts, *ACM TOOIS* 3, 1985, 233.

Allen, R.B., Editorial, *ACM TOOIS* 3, 1985, 1.

Allen, R.B., Special Issue Preface, *Human Factors*, Aug.1984.

## PANELS:

- Allen, R.B., (panelist) Repositories Based on Direct Semantic Representations, Asia-Pacific iSchool Conference, October, 2015, Wuhan, China
- Allen, R.B., (commentator) Workshop on Global Collaboration of Information Schools (WIS), IFLA Satellite Meeting, Nanyang Technological University, Aug. 2013.
- Allen, R.B., (panelist) Academic Panel, Newspaper Archives Summit, University of Missouri, Apr. 2011.
- Allen, R.B., (chair) What should we save in a digital world? Panel at JCDL Jun. 2009.
- Allen, R. B., (panelist) Effective models for digital publications, *Entomological Society of America Annual Conference*, Reno, Nov. 2008.
- Allen, R.B., (panelist) The role of preservation in the digital era, ALA Midwinter Meeting, Preservation Administrators Discussion Group, Philadelphia, Jan. 2008.
- Allen, R.B., (panelist) Information science and computer science as part of programming-lite: a dialog about educating computer science practitioners in a flat world, *ACM SIGCSE*, Covington, KY, Mar. 2007.
- Allen, R.B., (panelist) Sustainability of digital library education projects, JCDL Workshop on Digital Library Education, Jun. 2007, Vancouver, BC.
- Allen, R.B. (chair) Using online repositories in LIS education, Association for Library and Information Science Education, San Antonio, TX, Jan. 2006.
- Allen, R.B., (panelist) Enhancing a digital library of historical newspapers, *American Society for Information Science and Technology*, Greensboro, NC, Nov, 2005.
- Allen, R.B., (panelist) What every iSchool student should know: Information as a fundamental construct, *iConference*, State College, PA, Sept. 2005.
- Allen, R.B., (panelist) Collections of project documentation: Management and use of project libraries. *American Society for Information Science and Technology*, Providence, RI, Nov. 2004.
- Allen, R.B., (chair) Competing models of online access: A case study in computer science, *Society for Scholarly Publishing*, Baltimore, MD, May 2003.
- Allen, R.B., (chair) The business of publishing, *Computing Research Association (CRA)*, Snowbird, UT, Jul. 2002.

Allen, R.B., (panelist) Perils and pitfalls of publishing conference proceedings online, *Electronic Publishing and the Information Superhighway*, Boston, May 1995.

Allen, R.B., (panelist) Research issues in digital libraries, *Digital Library Forum*, McLean, VA, May 1995.

#### WORKSHOP AND SHORT PRESENTATIONS WITHOUT ACCOMPANYING PUBLICATION:

Allen, R.B., (keynote) Rich semantic representations for mechanisms, Nov 26, 2018, Nanyang Technological University, Singapore

Allen, R.B., Ontologies, foundries, and semantic models, Oct 19, 2018, Yonsei University

Allen, R.B., Information organization as infrastructure for Digital Humanities, Interrogating Infrastructure Workshop, Jul. 2016, Kings College London.

Allen, R.B., Repositories based on direct semantic representations, Asia-Pacific iSchool Conference, Oct., 2015, Wuhan, China.

Allen, R.B., Full-text digital libraries, organization and access of big data, BK21 Workshop, Jul. 2014, Yonsei University.

Allen, R.B., From iSchools to a discipline of information, International Symposium: Reviewing the Development of Information Schools to Inform their Future, Mar. 2014, Tsukuba Japan.

Allen, R.B., Conceptual models for data libraries. New Zealand eResearch Symposium, Jul. 2012, Wellington NZ.

Allen, R.B., Improving access to digitized historical newspapers with text mining, coordinated models, and formative user interface design. Victoria Digital History Workshop, Mar., 2012, Wellington NZ.

Allen, R.B., Model-oriented scientific research reports (Thesis in Three), *Scientific Communication Association of New Zealand*, Feb. 2012, Wellington NZ.

Allen, R.B., Information resource coordination as annotation, *STLR Workshop*, Jun. 16, 2011, Ottawa.

Allen, R.B., Research for access to historical newspapers, California Newspapers in the Digital Age: Making Our History Available: A Conference in Celebration, University of California at Riverside, Oct, 2007.

- Allen, R.B., Project metadata: development of the Goddard Core, metadata for the project management community, Sept. 2003, Special Session Dublin Core Conference, Seattle, Washington (co-organizer of this special session).
- Huffman, K. and Allen, R.B., Taking another step forward: Digitizing historical newspaper collections, Association for Library Collections and Technical Services Meeting: Newspaper Users Discussion Group, American Library Association Midwinter Meeting, Jan. 2001, Washington, D.C.
- Allen, R.B., Building video digital libraries on the Web. Workshop on Digital Libraries in Practice: Issues and Ideas, College Park, MD, Mar. 1998.
- Allen, R.B., Indexing and browsing tools for multimedia objects. Getty Museum Workshop on Semantic Systems, Los Angeles, CA, Oct. 1996.
- Allen, R.B., Interface Issues for a multimedia library, ONR Workshop on Issues in Interactive Multimedia, Las Cruces, NM, Feb. 1996.
- Allen, R.B., Online conference proceedings, International Workshop on Neural Networks in Telecommunications, Princeton, NJ, Oct. 1993.
- Allen, R.B., Connectionist language users (CLUES), Army Research Symposium, University of Pennsylvania, Dec. 1990.

#### OTHER INVITED TALKS:

- Allen, R.B., Rich semantics and direct representation for digital collections, Department of Computer Science, National University of Singapore, Jan., 2016
- Allen, R.B., Repositories with direct representation, Department of Information Management, Beijing University, Beijing, Nov. 2015.
- Allen, R.B., Toward tutoring systems based on knowledge-rich community models, Department of Library and Information Science, Hong Kong University, Hong Kong, Jan. 2015.
- Allen, R.B., Model-oriented information organization, Department of Library and Information Science, National Taiwan Normal University, Taipei, Taiwan, Jan. 2014.
- Allen, R.B., Model-oriented information organization, Department of Library and Information Science, National Taiwan University, Taipei, Taiwan, January 2014.
- Allen, R.B., Process-oriented information organization, Department of Library and Information Science, Yonsei University, Seoul, Korea, May 2013.

- Allen, R.B., Full-text, model-oriented digital libraries. iSchool, University of South Australia, Nov. 2012.
- Allen, R.B., Models for scientific research reports and for digital history. School of Engineering and Computer Science, Victoria University of Wellington, May 2012.
- Allen, R.B., Models for scientific research reports and for digital history. Department of Information Science, University of Otago, Mar. 2012.
- Allen, R.B., Beyond linked data to linked models for digital history and eScience. iSchool, University of North Texas, Nov. 2011.
- Allen, R.B., Linking data and models for digital history and eScience. School of Information Management, Victoria University of Wellington, Jul. 2011.
- Allen, R.B., Toward a historian's workbench: challenges for digital history. Research Conversation at iSchool, University of Washington, Feb. 2011.
- Allen, R.B., What to do with a Million Pages of Digitized Historical Newspapers, Faculty of Computer Science, Dalhousie University, Apr. 2009.
- Allen, R.B., Invited presentation, Connections (LIS graduate student conference), Philadelphia, 2007.
- Allen, R.B., Building an event gazetteer, IST, Drexel University, Philadelphia, Mar. 2004.
- Allen, R.B., Building an event gazetteer, School of Information Sciences, University of Tennessee, Knoxville, Mar. 2004.
- Allen, R.B., Digital libraries, knowledge management, and digital preservation, International Symposium on Digital Library for the 21<sup>st</sup> Century: Building a National Digital Library, National Library of Korea, Seoul, Korea, Oct. 2002.
- Allen, R.B., ACM and the open access debate, U. Maryland, ACM Student Chapter, Apr. 2002.
- Allen, R.B., Conceptual markup, Library Research Council, College Park, MD, Nov. 2001.
- Allen, R.B., Training for E-Competencies: A university perspective. GODORT Session, 2001 Federal Depository Conference, Alexandria, VA, Oct. 2001.
- Allen, R.B., Technology for e-Rights and e-Responsibilities, Maryland Library Association, Solomons Island, MD, May 2001.



- Allen, R.B., Digital libraries, (Keynote for 40th Anniversary of the GSFC Library), NASA Goddard Space Flight Center, May 2001.
- Allen, R.B., Multimedia digital libraries, WGBH, Boston, Sept. 2000.
- Allen, R.B., Navigating digital libraries and multimedia archives, Department of Information and Computer Science, UC Irvine, Feb. 1998.
- Allen, R.B., Packet video for smart eCities, *Smart City 2000* Conference, Miami, FL., Mar. 1997.
- Allen, R.B., Multimedia interfaces (Keynote), *Army Research Laboratory Workshop on Multimedia Information Systems*, Arlington, VA, Oct. 1995.
- Allen, R.B., SuperBook document browser, NASA Goddard Flight Center, Greenbelt, MD, Mar. 1995.
- Allen, R.B., Digital library user interface, Online Computer Library Center (OCLC), Columbus, OH, May 1994.
- Allen, R.B., Multimedia interfaces, *Frontiers of Physics Lecture Series*, SUNY New Paltz, Nov. 1993.
- Allen, R.B., Neural networks and natural language processing, Glasgow University, Glasgow, Scotland, Jul. 1990.
- Allen, R.B., Connectionist language users (CLUES), Cognitive Science Institute, Princeton University, Mar. 1990.
- Allen, R.B., Neural networks for natural language processing, Department of Computer Science, Washington University, St. Louis, Dec. 1989.
- Allen, R.B., Neural networks for natural language processing, School of Library Science, University of Chicago, Dec. 1989.
- Allen, R.B., Neural networks for natural language processing, Department of Computer Science, University of Illinois, Urbana, IL, 1989.
- Allen, R.B., Neural networks for natural language processing, Department of Psychology, Lehigh University, Bethlehem, PA, Nov. 1989.
- Allen, R.B., Neural networks overview, General Electric Laboratory, Schenectady, NY, Jul. 1989.
- Alspector, J., and R.B. Allen, Neuromorphic learning systems, IBM TJ Watson Research Lab, Yorktown Heights, NY, May 1989.

Allen, R.B., Connectionist language users (CLUES), AAAI Spring Symposium, Stanford University, Mar. 1989.

Allen, R.B., Modeling cognition with neural networks, Department of Psychology, Princeton University, Sep. 1988.

Allen, R.B., Overview of neural networks, Stevens Institute of Technology, Hoboken, NJ, Apr. 1988.

Allen, R.B., Overview of neural networks, Department of Computer Science, Jackson State University, Jackson MS, April 1988.

Allen, R.B., User interface research, Summer Institute Guest Lecture, SUNY Potsdam, Aug. 1986.

Allen, R.B., User models, Software Psychology Society, Washington, DC, Jul. 1986.

Allen, R.B., Menus and trees, New Jersey Institute of Technology, Newark, NJ, 1980.

Allen, R.B., Menus and trees, Office '80 Workshop, Department of Computer Science, University of Toronto, Toronto, Ontario, Mar. 1980.

#### PH.D. DISSERTATION:

Allen, R.B., *The effects of the emotional states of observer and observed on generation and recall of emotion labels*, Department of Psychology, University of California, San Diego, 1979. Advisor: Dr. Ebbe Ebbesen.

#### GRANTS AWARDED:

Automatic extraction of article metadata for historical newspapers, NEH Digital Humanities Start Up, RA RT236763EN, \$30K+ cost share (PI).

Developing Faculty of digital librarianship for the 21<sup>st</sup> Century, IMLS, Librarians for the 21<sup>st</sup> Century Doctoral Training Grant, \$992K+cost share (co-PI).

Towards a model curriculum for the management of digital information, IMLS, RE-05-05-0085-05, \$291K + cost share (PI) + \$7.5k supplement.

Interacting with threaded event scenarios, NSF, University of Maryland #0329111 and Drexel University #0541637, \$100K (PI).

## EDITORSHIPS:

1996 - 2006 Associate Editor, *Journal of Digital Information*  
 1995 - 1996 Information Director, *ACM Transactions on Information Systems*  
 1984 - 1995 Editor-in-Chief, *ACM Transactions on Information Systems*  
 1984 - 1989 Editorial Board, *Human Factors*  
 1984 Editor, *Human Factors*, Special Issue on Text Editing, Vol. 23, No. 3  
 1984 Associate Editor, *ACM Transactions of Office Information Systems*

## PROFESSIONAL SOCIETY OFFICES:

ACM Council  
 Member 2001-2004  
 ACM Executive Committee  
 Member 2001-2004  
 ACM Publications Board  
 Member 1998-2005  
 Chair 2001-2004

## CONFERENCE AND OTHER COMMITTEES:

ACM Digital Libraries and ACM/IEEE Joint Conference on Digital Libraries (JCDL)  
 Program Chair: 1997  
 Program Committee: 1995, 1996, 1997, 1998, 1999, 2000, 2002, 2003, 2004, 2005,  
 2006, 2009, 2010, 2011, 2012, 2013, 2015, 2016, 2017  
 Demonstration Reviews: 2006  
 Workshops Chair: 1999  
 ACM Document Processing Conference  
 Program Committee: 1988  
 ACM History Committee  
 Planning: 2004  
 ACM SIGCHI  
 Program Committee: 1989, 1990, 1995, 1996, 1997, 1998, 1999, 2000, 2002  
 Short Papers Committee: 2002  
 ACM SIGIR  
 Program Committee: 1989, 1990  
 Program Committee First-Tier: 1999, 2000  
 ACM SIGMM Multimedia Conference  
 Conference Treasurer: 1993, 1994  
 Conference General Chair: 1995  
 Panels Chair: 1996  
 SIGMM Treasurer: 1995-1999  
 Program Committee Member: 1991, 1993, 1994, 1998  
 Program Committee Associate Chair: 1997

- SIG Steering Committee: 1997
- ACM SIGOIS (a.k.a. SIGGROUP)
  - General Chair (COOCS): 1990
  - Program Chair (COIS): 1988
  - Program Committee: 1986, 1998
  - Steering Committee: 1992, 1993
- ACM SIGWEB Hypertext Conference
  - General Chair: 2002
  - Executive Committee, 2005
- Asia-Pacific Conference on Library, Information, and Education Practice (A-LIEP)
  - Program Committee: 2017
- Asian Information Retrieval Symposium (AIRS)
  - Program Committee: 2006
- Association of Information Science and Technology (ASIST)
  - Communications and Publications Committee:
    - Co-Chair 2011-2012
    - Program Committee: 2001, 2013, 2014, 2015, 2017, 2018
    - Poster Review Committee: 2013, 2014, 2015, 2017
  - Thomson Reuters Doctoral Proposal Award Committee:
    - Member 2009
    - Chair 2010, 2011
- Australasian Document Computing Symposium (ADCS)
  - Program Committee, 2012
- Cognitive Science Conference
  - Program Committee: 1991, 1992
- Digital Libraries
  - Program Committee: 2014
- Electronic Publishing and the Information Superhighway (DAGS)
  - Advisory Board and Program Committee: 1995
- IEEE Symposium of Office Automation
  - Program Committee: 1987
- Histoinformatics (Workshop on Computational History)
  - Program Committee, 2013, 2014, 2016, 2017
- iConference
  - Program Committee: 2014, 2015, 2016, 2017, 2018, 2019
- International Congress on Advanced Applied Informatics: E-Service and Knowledge Management (IAAI-ESKIM)
  - Program Committee: 2016
- International Conference on Asian Digital Libraries (ICADL)
  - Program Co-Chair, 2015
  - Program Committee: 2002, 2003, 2004, 2005, 2006, 2008, 2011, 2012, 2014, 2016
  - Steering Committee, 2015
- International Conference on Information Systems (ICIS)
  - Web 2.0 and Social Media Analytics Track: Associate Editor: 2009
- International Digital Library Conference (DL)
  - Program Committee: 2014

- International Federation of Library Associations and Institutions (IFLA)  
 Standing Committee Member for Newspapers Section 2011-2015
- Neural Information Processing Systems  
 Treasurer: 1991, 1992  
 Program Committee: 1990, 1991
- Pacific Neighborhood Community  
 Review Committee: 2016
- Rich Semantics and Direct Representation for Digital Collections  
 Organizer: 2016, 2017
- System Dynamics Society  
 Program Committee: 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017
- Theory and Practice in Digital Libraries (TPDL) formerly European Conference in Research and Advanced Technology for Digital Libraries (ECDL)  
 Program Committee 1997, 1998, 1999, 2010, 2012, 2015, 2016, 2017, 2018  
 Poster Review Committee: 2010
- USACM - ACM Policy Committee  
 Member: 2003-2005
- Other Workshop Organizer  
 2014 Organization and Access of Big Data Workshop, Jul. 2014, Yonsei University, Program Co-Chair  
 2015 Mining Big Text, Yonsei University, Feb. 2014, Program Co-Chair
- Other Program and Technical Committees  
 1990 Waterloo Text Conference  
 1994 Workshop on Information Technologies and Systems  
 1995 Workshop on Hypermedia Design  
 1998 EP'98 (Electronic Publishing) Conference  
 2000 NSF Korean-American Digital Library Working Group  
 2000 Digital Strategies Conference (at US National Archives, also Steering Committee)  
 2006 Knowledge Management International Conference and Exhibition (KMICE)  
 2006 TMBio Workshop  
 2009 Conference on Networked Digital Technologies (NDT), Czech Republic  
 2016 Interrogating Infrastructure, King's College London  
 2018 Workshop on Ontology and Rich Semantics, Nanyang University, Singapore

#### JOURNAL REVIEWER:

*ACM Transactions on Computer-Human Interaction*  
*ACM Transactions of Office Information Systems*  
*Bell System Technical Journal* (multiple)  
*Behaviour and Information Technology*  
*CODATA Data Science Journal*  
*Connection Sciences*

*Communications of the ACM*  
*Computers and Human Behavior*  
*Data Knowledge and Engineering*  
*Human-Computer Interaction*  
*Human Factors*  
*IEEE Computer*  
*IEEE Multimedia*  
*IEEE Systems, Man, and Cybernetics (A)*  
*IEEE Transactions on Communications*  
*Information Processing and Management*  
*International Journal of Man-Machine Studies*  
*International Journal of Digital Libraries (3)*  
*International Information and Library Review*  
*Journal of the American Society of Information Science (multiple)*  
*Journal of Education for Library and Information Science*  
*Journal of Experimental Psychology: Human Perception and Performance*  
*Machine Learning*  
*Neural Networks*  
*New Review of Hypermedia*  
*Pakistan Journal of Library and Information Science*  
*Psychological Review*  
*Scientometrics (3)*

#### FUNDING AGENCY REVIEW PANELS:

National Institutes of Health  
     BRIN Review Panel, 2001  
 National Science Foundation  
     CISE CDA Infrastructure Site Visit, 1996  
     CISE IIS/HCI Review Panel, 1999  
     CISE IIS/KDI Knowledge Networking Workshop, 1997  
     CISE IIS/Linguistics Review Panel, 2002  
     CISE IRIS Review Panel, 1991, 1997  
 IGERT  
     Pre-Proposal Review Panel, year withheld  
     Full Proposal Review Panel, years withheld (2 times)  
 ITR Review Panel, 2000  
 NSDL Review Panel, 2004  
 SLC Catalyst, 2003

#### PUBLISHER BOOK PROPOSAL AND BOOK DRAFT REVIEWS

Addison-Wesley  
 Jones and Bartlett Publishers, Inc.

MIT Press (2)  
Prentice Hall - Information Science  
Scarecrow Press  
Silicon Press (2)  
Wiley

AD HOC REVIEWS:

Hawaii International Conference on System Sciences (HICSS)  
2007, 2011  
Hong Kong Research Grants Office  
U.S. Civilian Research & Development Foundation, 2005  
National Science Foundation  
SEIII, 2005  
Netherlands Organisation for Scientific Research, eScience, 2016  
U. California, Micro Grants

OTHER PROFESSIONAL COMMITTEES AND SERVICE:

City of Philadelphia Focus Group on budget for City Records Office  
Historical Society of Pennsylvania  
Technology Advisory Board, 2009-2010  
National Academy of Sciences  
Information Technology Literacy Panel, 1998  
Board of Visitors, NASA Goddard Library, 2002, 2003, 2004  
NASA Goddard Metadata Review Committee, 2002  
NCITS L3 (MPEG7 Standards Group)  
Principal Member: 1998-1999

CONSULTING AND PAID SERVICE

Historical Society of Pennsylvania, 2010-2011  
National Assembly Library of Korea, 2016

TENURE AND PROMOTION EXTERNAL REVIEW (DETAILS ON REQUEST)

Indiana University, School of Library and Information Science  
Indiana University-Purdue University Fort Wayne, Computer Science  
LIS program in southern US (2)  
iSchool, Mid-Atlantic  
MIT Media Laboratory  
East Asia LIS program

U. Toronto, Computer Science

**MEMBERSHIPS:**

Association for Computing Machinery (ACM, Life Member)  
 Association for Information Science and Technology (ASIST)  
 Institute for (IEEE, Senior Member)

**COURSES TAUGHT:**

**Yonsei University, Department of Library and Information Science (English)**

**Undergraduate**

LIS 3816	Metadata (Spring 2014, Spring 2016, Spring 2017)
LIS 3817	Data Curation, eScience, and Informatics (Fall 2014)
LIS 3818	Digital Libraries and Digital Preservation (Spring 2015)
LIS 3819	Applied Ontologies (Fall 2015)
LIS 3820	Biomedical Information Organization (Fall 2016)
LIS 3821	Informatics and Data Science (Spring 2017)
LIS 4801	Digital Libraries (Fall 2015, Fall 2016, Fall 2017)
LIS 4808	Informatics and Data Science (Fall 2017)

**Graduate**

LIS 7032	Digital Libraries (Spring 2014, Fall 2017)
LIS 8023	Digital Humanities Seminar (Fall 2014)
LIS 8024	Data Curation, eScience, and Informatics (Fall 2014)
LIS 8025	Ontologies and Information Organization (Spring 2015)
LIS 8026	Applied Ontologies (Fall 2015)
LIS 8029	Advanced Information Organization (Spring 2016, Spring 2017)
LIS 8030	Archives and Cultural Informatics (Fall 2016)

**Yonsei University-Simmons College Joint Program (English)**

LIS 8023	Digital Humanities Seminar (Summer 2015)
----------	--

**University of Tsukuba, School of Information Management (2013)(English)**

**Masters**

01MB404E	Current Issues in Informatics (Advanced Seminar)
----------	--

**Victoria University of Wellington, School of Information Management (2012)**

**Masters**

INFO 527 (co-taught)	Representing and Organising Information in Context
INFO 528 (co-taught)	Research Methods for Information Management Environments
INFO 560	Design and Evaluation of Human Computer Interaction



**Drexel University, College of Information Science and Technology (2004-2011)****Undergraduate**

INFO 101	Introduction to Information Technology
INFO 300	Information Retrieval Systems
INFO 310	Human Computer Interaction
INFO 360	Language Processes
INFO 405	Computer Supported Collaborative Work

**Graduate**

INFO 608	Human Computer Interaction
INFO 614	Distributed Computing and Networking
INFO 624	Information Retrieval Systems
INFO 643	Information Services in Organizations
INFO 653	Digital Libraries
INFO 756	Digital Preservation

**Doctoral**

INFO 780-015	Doctoral Seminar on: Multimedia Information Retrieval
INFO 780-015	Doctoral Seminar on: Digital Preservation
INFO 812 (695)	Research Statistics I

**University of Maryland, College of Information Studies (1998-2004)****Undergraduate**

LBSC 208B	Information and Knowledge Management
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**Masters**

LBSC 670	Information Structure
LBSC 690 (708U)	Information Technology
LBSC 705 (718A)	Seminar on Information for Decision Making
LBSC 708D	Digital Library Infrastructure
LBSC 708F	Digital Libraries: Technology and Policy
LBSC 708Q (co-taught)	Information and the War on Terrorism
LBSC 793	Database Design
LBSC 795	Human-Computer Communication
LBSC 796 (708A)	Information Retrieval Systems

**Doctoral**

LBSC 878 (co-taught)	Doctoral Seminar in Information Storage and Retrieval
----------------------	---

**New Jersey Institute of Technology, CIS (1997-1998)**

CIS 270	Multimedia Information Systems
---------	--------------------------------

**Rutgers Newark, Department of Psychology (1997)**

PSY 490	Human Computer Interaction
---------	----------------------------

## OTHER TEACHING:

**Governors School (High School Summer Program)**

2007 – 2009	Pennsylvania Governor's School for Information Society and Technology (now DUCA: Drexel University Computing Academy)
-------------	--

## DOCTORAL STUDENTS:

## Drexel IST Thesis Committees Chaired

Wanda Kunkle, completed 2010

The Impact of Different Teaching Approaches and Languages on Student Learning of Introductory Programming Concepts.

Weizhong Zhu, completed 2009

Text clustering and Active Learning Using a Latent Semantic Indexing Subspace Signature Model and Query Expansion.

## Drexel IST Thesis Committee Member

Donald Pellegrino, completed 2011

Nan Zhou, completed 2010

Johann Sarmiento, completed 2009

James Waters, completed 2009

Min Song, completed 2005

## U. Maryland CLIS Thesis Committee Member

Wiwat Puntai, 2003

Anita Komlodi, 2001

Xi Chen (Microbiology), 2001

Allen Brewer, 2000

## External Thesis Committees

Vijay Kumar, Computer Science, Texas A&M University, 1997

Mark Riecken, Computer Engineering, University of New Mexico, 1993

## External Thesis Examiner

Nanyang Technology University, School of Computer Engineering, 2004

## MENTORING:

## Mentor of Visiting Scholars

M. K. Bhandi, U. Mangalore, 1999 (Fulbright)

C. R. Madhusudana Rao, Bangalore, 2000 (Fulbright)

Deshmukh Subhash, Guru Gobind Singh Indraprastha U, (2000) (Fulbright)

Y. Singh, U. Roorkee, 2000 (Fulbright)

Zhang De, ISTIC (Beijing), 1999-2000

Hedong Yang, ISTIC (Beijing), 2001