

**James C. French, Research Associate Professor
Department of Computer Science
University of Virginia**

PERSONAL AND PROFESSIONAL INFORMATION

Education

Ph.D.	Computer Science	University of Virginia, 1982
M.S.	Computer Science	University of Virginia, 1979
B.A.	Mathematics	University of Virginia, 1973

Work Experience

Senior Systems Engineer, Science Applications International Corporation, February 2006 to present.
Program Director, Science and Engineering Information Integration and Informatics Program, Division of Information and Intelligent Systems, Directorate for Computer and Information Sciences and Engineering, National Science Foundation, September 2002 to present.
Research Associate Professor, Department of Computer Science University of Virginia, July 1997 to present.
Research Assistant Professor, Department of Computer Science and Institute for Parallel Computation University of Virginia, July 1990 to June 1997.
Senior Scientist, Institute for Parallel Computation, University of Virginia, July 1987 to July 1990.
Vice President of Software Development, Information Research Corporation, January 1984 to June 1987.
Consulting and contract programming (self-employed), August 1979 to January 1984.
Instructor, University of Virginia School of Continuing Education, June 1978 to August 1978.
Computer Specialist, Department of Defense: Fleet Assistance Group, Atlantic and Naval Education and Training Support Center, Atlantic, August 1973 to August 1977.

Professional and Honor Society Memberships

Association for Computing Machinery (ACM)
ACM Special Interest Group on Management of Data (SIGMOD)
ACM Special Interest Group on Information Retrieval (SIGIR)
IEEE Computer Society
IEEE Computer Society Technical Committee on Data Engineering
IEEE Computer Society Technical Committee on Digital Libraries
American Society for Information Science and Technology (ASIST)
Sigma Xi
Tau Beta Pi

PROFESSIONAL ACTIVITIES

Program and Conference Committees

Program Committee, 15th International Conference on Information and Knowledge Management (CIKM 2006), Arlington, VA, November 6-11, 2006.
Program Committee, 29th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, Seattle, WA, August 6-10, 2006.

Program Committee, 18th International Conference on Scientific and Statistical Database Management, Vienna, July 2006.

Program Committee, IEEE International Workshop on Multimedia Databases and Data Management (MDDM'06), Atlanta, Georgia, April 3-7, 2006.

Program Committee, IEEE International Symposium on Multimedia (SIM 2005), Irvine, CA, December 12-14, 2005.

Program Committee, Eighth International Conference on Asian Digital Libraries (ICADL 2005), Bangkok, Thailand, December 2005.

Program Committee, 17th International Conference on Scientific and Statistical Database Management, Santa Barbara, June 2005.

Program Committee, Sixth International Workshop on Web Information and Data Management (WIDM2004), Washington, DC, November 2004.

Program Committee, 27th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, Sheffield, UK, July 25 - 29, 2003.

Best Paper Committee, 26th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, Toronto, Canada, July 28 - August 1, 2003.

Program Committee, SIGIR Workshop on Distributed Information Retrieval, Toronto, Canada, July 28 - August 1, 2003.

Program Committee, Fifth International Workshop on Web Information and Data Management (WIDM2003), New Orleans, November 2003.

Program Committee, Sixth International Conference on Asian Digital Libraries (ICADL 2003), Malaysia, December 2003.

Program Committee, 15th IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2003), Sacramento, CA, November 3-5, 2003.

Program Committee, Workshop on Information Visualization Interfaces for Retrieval and Analysis (IVIRA), Houston, TX, May 27-31, 2003.

Program Committee, 26th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, Toronto, Canada, July 28 - August 1, 2003.

Program Committee, 14th IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2002), Washington D.C., November 4-6, 2002.

Program Committee, 4th International Workshop on Web Information and Data Management (WIDM'02), McLean, VA, November 2002.

Program Committee, Workshop on Document Search Interface Design and Intelligent Access in Large-scale Collections, Portland, OR, July 2002.

Program Committee, International Conference on Asian Digital Libraries (ICADL 2002), Singapore, December 2002.

Program Committee, 25th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, Tampere, Finland, August 11-15, 2002.

Mentor, 25th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, Tampere, Finland, August 11-15, 2002.

Program Committee, 3rd International Workshop on Web Information and Data Management (WIDM'01), Atlanta, GA, November 2001.

Program Committee, Tenth International Conference on Information and Knowledge Management (CIKM 2001), Atlanta, GA, November 5-10, 2001.

Program Committee, 24th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, New Orleans, Louisiana, September 16 - 20, 2001.

Rapporteur, Joint DELOS-NSF Workshop on Personalisation and Recommender Systems in Digital Libraries, Dublin, Ireland, June 2001.

Registration Chair, First ACM-IEEE Joint Conference on Digital Libraries, Roanoke, VA, June 2001.

Program Committee, Second International Workshop on User Interfaces to Data Intensive Systems (UIDIS 2001), Zurich, 1-2 June, 2001.

Program Committee, Seventh International Conference on Database Systems for Advanced Applications (DASFAA), Hong Kong, April 18-20, 2001.

Program Committee, Ninth International Conference on Information and Knowledge Management (CIKM 2000), Washington, DC, November 6-11, 2000.

Program Committee, Seventeenth National Conference on Artificial Intelligence (AAAI-2000), Austin, TX, July 30 - August 3, 2000.

Program Committee, 12th International Conference on Scientific and Statistical Database Management, Berlin, Germany, July 2000.

Vice Program Chair (Intelligent Information Retrieval), 11th International Conference on Tools with Artificial Intelligence (ICTAI'99), Chicago, IL, November 9-11, 1999.

Program Committee, Fifth International Computer Science Conference (ICSC '99), Hong Kong, December, 1999.

Publicity Chair, Fourth ACM International Conference on Digital Libraries, (DL'99), 1999.

Program Committee, Eighth International Conference on Information and Knowledge Management (CIKM-99), 1999.

Program Committee, 22nd International Conference on Research and Development in Information Retrieval (SIGIR'99), 1999.

Program Committee, Fourth ACM International Conference on Digital Libraries, (DL'99), 1999.

Program Committee, 11th International Conference on Scientific and Statistical Database Management, Cleveland, Ohio, 1999.

Co-Chair Program Committee, Seventh International Conference on Information and Knowledge Management (CIKM-98), Bethesda, Maryland, 1998.

Program Committee, Third ACM International Conference on Digital Libraries, (DL'98), 1998.

Program Committee, 10th International Conference on Scientific and Statistical Database Management, Capri, Italy, 1998.

Program Committee, 21st International Conference on Research and Development in Information Retrieval (SIGIR'98), 1998.

Program Committee, Sixth International Conference on Information and Knowledge Management (CIKM-97), Las Vegas, Nevada, Nov. 10-14, 1997.

Chair, ACM SIGIR'97 Best Paper Committee, 1997.

Program Committee, 9th International Conference on Scientific and Statistical Database Management, Olympia, WA, 1997.

Program Committee, 20th International Conference on Research and Development in Information Retrieval (SIGIR'97), 1997.

Co-Chair Program Committee, 8th International Conference on Scientific and Statistical Database Management, Stockholm, Sweden, 1996.

Program Committee, First ACM International Conference on Digital Libraries, (DL'96), 1996.

Program Committee, 12th International Conference on Data Engineering, 1996.

Intel Supercomputer Users Group (ISUG) Conference Committee, ISUG-95, 1995.

Co-Chair Program Committee and General Chair, 7th International Conference on Scientific and Statistical Database Management, Charlottesville, VA, 1994.

Steering Committee, International Conference on Scientific and Statistical Database Management, (1992-1999).

Co-Chair Program Committee, 6th International Conference on Scientific and Statistical Database Management, Zurich, Switzerland, June 1992.

Organizing Committee, NSF Scientific Database Workshop, Charlottesville, VA, March 12-13, 1990.

Editorial Positions

Associate Editor, *IEEE Transactions on Systems, Man, and Cybernetics*, Part A: Systems and Humans (2002-2004).

Category Editor, *ACM Computing Reviews* (1997-2002).

Editorial Board, *Journal of Contemporary Issues in Technology and Teacher Education* (1999-2003).

Professional Panels and Working Groups

National Health Information Network (NHIN) Request for Information Response Review Taskforce, Department of Health and Human Services (2004).

Co-chair, Human Computer Interaction and Information Management Coordinating Group, Subcommittee on Networking and Information Technology Research and Development, Committee on Technology, National Science and Technology Council (2004-).

NSF Working Group on Environmental Research and Education (2004-6).

NSF Collaborative Large-scale Environmental Assessment Network for Environmental Research (CLEANER) Project Advisory Team (2004-6).

Reviewer, NSF-NATO Postdoctoral Fellowship Program, 2002.

External Ph.D. Committee member, The Hong Kong University of Science and Technology, Hong Kong, 2002.

Steering Committee for the OAI-based NCSTRL (2001-).

DARPA, NASA, NSF Information Management Technology Requirements Study Panel, 2001- 2002.

External Ph.D. Committee member, RMIT University, Melbourne, Australia, 2001.

NSF proposal review panel, Digital Government Program, 2000.

Advisory Board, Center for Technology and Teacher Education (1999-2002).

Governing Board, Internet Technology Innovation Center (1998-2003).

D-Lib Working Group on Digital Library Metrics (1997-2002).

NASA Graduate Student Research Program (GSRP) reviewer, 1996.

NASA proposal review panel, Crystal City, VA, Oct. 21-22, 1996.

ACM Computing Classification System Update Committee (1996-1997).

National Library of Medicine, Biological Magnetic Resonance Data Bank (BMRB) site visit, University of Wisconsin, Madison, WI, April 22-24, 1996.

ACM SIGIR Electronic Publishing Committee (1995-1998).

GC-ASK (Global Change - Assisted Search for Knowledge) Working Group (1995-6).

Network Computer Science Technical Report Library (NCSTRL) Working Group (1995-2001).

Atmospheric Radiation Measurement (ARM) Program Data System Review, Oak Ridge National Laboratory, May 25-26, 1994.

ACM SIGIR Electronic Information Director (1993-1998).

NASA proposal review panel, Washington, DC, Sept. 20-21, 1993.

Co-Chair Intel Concurrent I/O Special Interest Group (1990-1994).

Advisor to the Coalition of Networked Information for the Capture and Storage of Electronic Theses and Dissertations Project (1992).

Invited Workshops and Conference Panels

Invited participant, Scientific Data Intensive Computing Workshop 2004 (SciData'04), Microsoft Research, Bellevue, WA, May 25-26, 2004.

Invited participant, Department of Energy, Office of Science, Data Management Workshop, Stanford, CA, March 16-18, 2004.

Invited participant, *National Science Board Workshop on Policy Issues for Long-Lived Data*, Arlington, VA, November 18, 2003.

Invited speaker, "Environmental Cyberinfrastructure," *Collaborative Large-scale Environmental Assessment Network for Environmental Research (CLEANER) Workshop*, Durham, NC, Feb. 3-4, 2003.

Panel Chair, *Symposium on Knowledge Environments for Science: Past, Present and Future*, Arlington, VA, November 25-26, 2002.

Invited participant, *NSF Workshop on Digital Government* (dg.o 2000), Los Angeles, May 15-17, 2000.

Invited participant, *NSF Workshop on Data Archival and Information Preservation*, March 26-27, 1999, Washington DC.

Invited participant, *NSF Workshop on Distributed Information, Computation, and Process Management for Scientific and Engineering Environments (DICPM)*, May 15-16, 1998, Herndon, VA.

Panelist, *Digital Libraries in Practice: Issues and Ideas*, University of Maryland, College Park, MD, March 25, 1998.

Panelist, *2nd International Conference on Digital Libraries*, "NCSTRL: Experience with a Global Digital Library," July 24, 1997.

Invited speaker, *Workshop on Data Mapping and Matching*, NASA CESDIS, Goddard Space Flight Center, Greenbelt, MD, Nov. 7, 1996.

Invited participant, *SURA Workshop on Electronic Theses and Dissertations*, Charlotte, NC, August 1-2, 1996.

Invited speaker, GCDIS Subgroup of the CENR Task Force on Observations and Data Management, Data Management Working Group of the U.S. Global Change Research Program meeting, Washington, DC, March 14, 1996.

Invited speaker, Data Management Working Group of the U.S. Global Change Research Program meeting, Washington, DC, March 14, 1996.

Invited participant, *D-Lib Workshop on Repository Interfaces*, CNRI, Reston, VA, March 11-12, 1996.

Invited participant, *Dagstuhl Workshop on Networked Information Systems: Discovery, Retrieval, Dissemination*, Saarbrücken, Germany, Feb. 26 - Mar. 1, 1996.

Invited speaker, *Global Climate Data and Information System (GCDIS) Data Center Workshop*, Oak Ridge, TN, Sept. 12-14, 1995.

Invited participant, *HPCC-IITA Digital Libraries Workshop*, ARPA, Mclean, VA, May 18-19, 1995.

ACM Electronic Community Coordinating Committee (ECCC) Information Directors Workshop, Nashville, TN, Feb. 25, 1995.

Panel Chair, "Content Retrieval from Image Databases" panel at *23rd Annual AIPR Workshop*, Washington, DC, Oct. 12-14, 1994.

Invited participant, *Massive Digital Data Systems Workshop*, Reston, VA, Feb. 1-2, 1994.

Invited speaker: Knowledge Discovery in Databases, *1993 ORSA/TIMS Conference*, Phoenix, Arizona, Oct 31-Nov 3, 1993.

Invited speaker: *IANET '93 -- Information Access and the Networks*, Pittsburgh, PA, July 1, 1993.

Invited speaker and working group Chair: *SDM '92 -- Scientific Data Management Workshop*, Salt Lake City, UT, Nov. 3-5, 1992.

Invited participant: *CESDIS Workshop on Scientific Data Management*, University of Maryland, September 25, 1992.

Invited participant: *Second National Library of Medicine E. Coli Database Workshop*, June 28- 29, 1989, Chicago, IL.

PUBLICATIONS

Books and book chapters

- Viles, C. L. and J. C. French, "Availability and Latency of World Wide Web Information Servers," in *Selected Papers in Network and System Administration*, E. Anderson, M. Burgess and A. Couch (eds.), John Wiley & Sons, Ltd., West Sussex, England, 2001, pp. 268-286.
- Gardarin, G., J. C. French, N. Pissinou, K. Makki and L. Bouganim, eds., *Proceedings of the 7th International Conference on Information and Knowledge Management*, ACM Press, November 1998.
- Svensson, P. and J. C. French, eds., *Proceedings of the 8th International Working Conference on Scientific and Statistical Database Management*, IEEE Computer Society Press, June 1996.
- Guest editor, special issue of *Statistics and Computing on Scientific and Statistical Database Management*, March 1995.
- Melton, R. B., D. M. DeVaney, and J. C. French (eds.), *The Role of Metadata in Managing Large Environmental Sciences Datasets: Proceedings of SDM-92, 1992 Metadata Workshop*, Salt Lake City, Utah, Technical Report PNL-SA-26092, Pacific Northwest Laboratory, Richland, WA, 1995.
- French, J. C. and H. Hinterberger, eds., *Proceedings of the 7th International Working Conference on Scientific and Statistical Database Management*, IEEE Computer Society Press, September 1994.
- Pfaltz, J. L. and J. C. French, "Representing Spatial Change in Environmental Databases," in *Environmental Information Management and Analysis: Ecosystem to Global Scales*, W. K. Michener, ed., Taylor & Francis, 1994, pp. 129-140.
- Hinterberger, H. and J. C. French, eds., *Proceedings of the 6th International Working Conference on Scientific and Statistical Database Management*, Institute for Scientific Computing, ETH Zurich, June 1992.
- French, J. C., "Support for Scientific Database Management," in *Statistical and Scientific Databases*, Z. Michalewicz (ed.), Ellis Horwood Ltd., 1991, pp. 51-82.
- French, J. C., *IDAM File Organizations*, UMI Research Press, Ann Arbor, MI, 1985.

Journal Articles

- Jin, X. and J. C. French, "Improving Image Retrieval Effectiveness via Multiple Queries," *Multimedia Tools and Applications*, vol. 26, 2005, pp. 221-245.
- French, J. C., A. C. Chapin, W. N. Martin, "Multiple Viewpoints as an Approach to Digital Library Interfaces," *Journal of the American Society for Information Science and Technology*, vol. 55, no 10, August 2004, pp. 911-922.
- Powell, A. L. and J. C. French, "Comparing the Performance of Collection Selection Algorithms," *ACM Transactions on Information Systems*, vol. 21, no. 4, October 2003, pp. 412-456.
- French, J. C., A. L. Powell, F. Gey and N. Perelman, "Exploiting Manual Indexing to Improve Collection Selection and Retrieval Effectiveness," *Information Retrieval*, vol. 5, no. 4, October 2002, pp. 323-351.
- French, J. C. and A. L. Powell, "Metrics for Evaluating Database Selection Techniques," *World Wide Web: Internet and Web Information Systems*, vol. 3, no. 3, November 2000, pp. 153-163.
- French, J. C., A. L. Powell and E. Schulman, "Using Clustering Strategies for Creating Authority Files," *Journal of the American Society for Information Science*, vol. 51, no. 8, June 2000, pp. 774-786.
- French, J. C. and C. L. Viles, "Personalized Information Environments: An Architecture for Customizable Access to Distributed Digital Libraries," *D-Lib Magazine*, vol. 5, no. 6, June 1999.
- Viles, C. L. and J. C. French, "Content Locality in Distributed Digital Libraries," *Information Processing and Management*, vol. 35, no. 3 (May 1999), pp. 317-336.
- Coulter, N., J. French, E. Glinert, T. Horton, N. Mead, R. Rada, A. Ralston, C. Rodkin, B. Rous, A. Tucker, P. Wegner, E. Weiss, and C. Wierzbicki, "Computing Classification System 1998: Current Status and Future Maintenance (Report of the CCS Update Committee)," *Computing Reviews*, vol. 39, no. 1 (January 1998), pp. 1-62.

- Schulman, E., J. C. French, A. L. Powell, G. Eichhorn, M. J. Kurtz and S. S. Murray, "Trends in Astronomical Publication between 1975 and 1996," *Publications of the Astronomical Society of the Pacific*, vol. 109 (Nov. 1997), pp. 1278-1284.
- French, J. C., D. E. Brown, and N. H. Kim, "A Classification Approach to Boolean Query Reformulation," *Journal of the American Society for Information Science*, vol. 48, no. 8 (August 1997), pp. 694-706.
- Kim, N. H., J. C. French, and D. E. Brown, "Development of New Retrieval Performance Measures for Query Reformulation Algorithms," *Transactions of the Korean Information Processing Society*, vol. 4, no. 4 (April 1997), pp. 963-972.
- Kim, N. H., D. E. Brown, and J. C. French, "Time Complexity Analysis of Boolean Query Formulation Algorithms," *Transactions of the Korean Information Processing Society*, vol. 4, no. 3 (March 1997), pp. 709-719.
- French, J. C., J. C. Knight, and A. L. Powell, "Applying Hypertext Structures to Software Documentation," *Information Processing and Management*, vol. 33, no. 2 (March 1997), pp. 219-231.
- French, J. C. and C. L. Viles, "Ensuring Retrieval Effectiveness in Distributed Digital Libraries," *Journal of Visual Communication and Image Representation*, vol. 7, no. 1 (March 1996), pp. 61-73.
- French, J. C., E. Fox, K. Maly, A. Selman, "Wide Area Technical Report Service: Technical Reports Online," *Communications of the ACM*, vol. 38, no. 4 (April 1995), p. 45.
- Viles, C. L. and J. C. French, "Availability and Latency of World Wide Web Information Servers," *Computing Systems*, vol. 8, no. 1 (1995), pp. 61-91.
- Heyman, B. L., J. C. French, and G. L. Bull, "The Library Access, Search and Retrieval Pilot Project for the Global Change Data and Information System," *Library Hi Tech*, issue 49-50, vol. 13 no. 1-2 (1995), pp. 19-21.
- French, J. C., "DIRE: An Approach to Improving Scientific Communication," *Information and Decision Technologies*, vol. 19 (1994), pp. 527-541.
- French, J. C., T. W. Pratt and M. Das, "Performance Measurement of the Concurrent File System of the Intel iPSC/2 Hypercube," *Journal of Parallel and Distributed Computing*, vol. 17, 1993, pp. 115-121.

Refereed Conferences

- Jin, X., J. C. French and J. Michel, "Toward Consistent Evaluation of Relevance Feedback Approaches in Multimedia Retrieval," *3rd International Workshop on Adaptive Multimedia Retrieval*, Glasgow, UK, July 28-29, 2005, *Lecture Notes in Computer Science* 3877, pp. 191-206.
- French, J. C., X. Jin and W. N. Martin, "An Empirical Investigation of the Scalability of a Multiple Viewpoint CBIR System," International Conference on Image and Video Retrieval (CIVR 2004 poster), Dublin, Ireland, July 21-23, 2004, pp. 252-260.
- Jin, X. and J. C. French, "Improving Image Retrieval Effectiveness via Multiple Queries," *First ACM International Workshop on Multimedia Databases (ACM-MMDB 2003)*, New Orleans, Louisiana, November 7, 2003, pp. 86-93.
- French, J. C., A. C. Chapin and W. N. Martin, "Multiple Viewpoints: A Strategy for Searching Multimedia Content," *Workshop on Multimedia Content in Digital Libraries*, Chania, Crete, Greece, June 2-3, 2003.
- French, J. C., J. V. S. Watson, X. Jin and W. N. Martin, "An Exogenous Approach for Adding Multiple Image Representations to Content-Based Image Retrieval Systems," *Proc. Seventh International Symposium on Signal Processing and its Applications (ISSPA 2003)*, Paris, July 1-4, 2003.
- French, J. C., A. C. Chapin and W. N. Martin, "An Application of Multiple Viewpoints to Content-Based Image Retrieval," *Proc. Joint Conference on Digital Libraries (JCDL 2003)*, Houston, Texas, May 27-31, 2003, pp. 128-130.

- French, J. C., J. V. S. Watson, X. Jin and W. N. Martin, "Integrating Multiple Multi-Channel CBIR Systems," *Proc. International Workshop on Multimedia Information Systems (MIS 2003)*, Ischia, Italy, May 26-28, 2003.
- French, J. C., "Modeling Web Data," *Joint Conference on Digital Libraries (JCDL'02)*, Portland, OR, July, 2002, pp 320-321.
- French, J. C., A. C. Chapin and W. N. Martin, "Multiple Viewpoints as an Approach to Digital Library Interfaces," *Workshop on Document Search Interface Design and Intelligent Access in Large-scale Collections*, Portland, OR, July, 2002.
- Anan, H., X. Liu, K. Maly, M. Nelson, M. Zubair, J. C. French, E. Fox and P. Shivakumar, "Preservation and Transition of NCSTRL Using an OAI-Based Architecture," *Joint Conference on Digital Libraries (JCDL'02)*, Portland, OR, July, 2002, pp. 181-182.
- Monroe, G. A., J. C. French and A. L. Powell, "Obtaining Language Models of Web Collections Using Query-Based Sampling Techniques," *Hawaii International Conference on System Sciences (HICSS-35): Data Mining and Information Retrieval*, Jan. 2002.
- Hauver, D. B. and J. C. French, "Flycasting: Using Collaborative Filtering to Generate a Playlist for Online Radio," *First International Conference on Web Delivery of Music (WEDELMUSIC 2001)*, Florence, Italy, Nov. 2001, pp. 123-130.
- French, J. C., A. L. Powell, F. Gey, N. Perelman, "Exploiting A Controlled Vocabulary to Improve Collection Selection and Retrieval Effectiveness," *Tenth International Conference on Information and Knowledge Management (CIKM 2001)*, Nov. 2001, pp. 199-206.
- French, J. C. and D. B. Hauver, "Flycasting: On the Fly Broadcasting," *Joint DELOS-NSF International Workshop on Personalization and Recommender Systems in Digital Libraries*, Dublin, Ireland, June 18-20, 2001, pp. 89-93.
- Powell, A. L., J. C. French, J. Callan, M. Connell, C. L. Viles, "The Impact of Database Selection on Distributed Searching," *Proc. 23rd International Conference on Research and Development in Information Retrieval (SIGIR'2000)*, Athens, Greece, July 2000, pp. 232-239.
- Powell, A. L. and J. C. French, "Growth and Server Availability of the NCSTRL Digital Library," *Proc. Fifth ACM Conference on Digital Libraries*, San Antonio, TX, 2000, pp.264-265.
- Sharretts, C., J. Shieh and J. C. French, "Electronic Theses and Dissertations at the University of Virginia," *Proc. of the 62nd American Society for Information Science Annual Meeting (ASIS'99)*, Washington, DC, November 1999, pp. 240-255.
- Dushay, N., J. C. French and C. Lagoze, "Predicting Indexer Performance in a Distributed Digital Library," *European Conference on Digital Libraries*, Paris, France, September 1999, pp. 142-166.
- French, J. C. and A. L. Powell, "Metrics for Evaluating Database Selection Techniques," *Proc. Tenth International Workshop on Database and Expert Systems Applications (DEXA '99)*, Florence, Italy, Sept. 1999, pp. 726-730.
- Dushay, N., J. C. French and C. Lagoze, "Using Query Mediators for Distributed Searching in Federated Digital Libraries," *Proc. Fourth ACM Conference on Digital Libraries*, Berkeley, CA, August 1999, pp. 171-178.
- Sharretts, C. and J. C. French, "Electronic Theses and Dissertations at the University of Virginia Library," *Proc. Fourth ACM Conference on Digital Libraries*, Berkeley, CA, August 1999, pp. 246-247.
- French, J. C., A. L. Powell, J. Callan, C. L. Viles, T. Emmitt, K. Prey and Y. Mou, "Comparing the Performance of Database Selection Algorithms," *Proc. 22nd International Conference on Research and Development in Information Retrieval (SIGIR'99)*, Berkeley, CA, August 1999, pp. 238-245.
- Sharretts, C., J. Shieh and J. C. French, "Electronic Theses and Dissertations at the University of Virginia," *Proc. Conference of the Association for Computation in the Humanities*, Charlottesville, VA, June 1999.
- Ganti, V., R. Ramakrishnan, J. Gehrke, A. Powell and J. French, "Clustering Large Datasets in Arbitrary Metric Spaces," *Proc. International Conference on Data Engineering (ICDE'99)*, Sydney, Australia, March 1999, pp. 502-511.

- French, J. C., A. L. Powell, C. L. Viles, T. Emmitt and K. Prey, "Evaluating Database Selection Techniques: A Testbed and Experiment," *Proc. 21st International Conference on Research and Development in Information Retrieval (SIGIR'98)*, Melbourne, Australia, August 1998, pp. 121- 129.
- Pfaltz, J. L., R. F. Haddleton and J. C. French, "Scalable, Parallel Scientific Databases," *Proc. 10th International Conference on Scientific and Statistical Database Management*, Capri, Italy, July 1998, pp. 4-11.
- French, J. C., A. L. Powell, and W. R. Creighton III, "Efficient Searching in Distributed Digital Libraries," *Proc. 3rd ACM International Conference on Digital Libraries (DL'98)*, Pittsburgh, PA, June 23-26, 1998, pp. 283-284.
- French, J. C., A. L. Powell and E. Schulman, "Applications of Approximate Word Matching in Information Retrieval," *Proc. 6th International Conference on Information and Knowledge Management (CIKM'97)*, Las Vegas, Nevada, Nov. 1997, pp. 9-15.
- French, J. C., A. L. Powell, E. Schulman and J. L. Pfaltz, "Automating the Construction of Authority Files in Digital Libraries: A Case Study," *Proc. First European Conference on Research and Advanced Technology for Digital Libraries (ECDL'97)*, Lecture Notes in Computer Science 1324, C. Peters and C. Thanos (eds.), Springer- Verlag, Pisa, 1-3 September 1997, pp. 55-71.
- Powell, A. L., J. C. French and J. C. Knight, "A Systematic Approach to Creating and Maintaining Software Documentation," *Proc. 1996 ACM Symposium on Applied Computing (SAC 96)*, Philadelphia, PA, Feb. 1996, pp. 201-208.
- Barros, J. E., J. C. French, W. N. Martin, P. Kelly, and M. Cannon, "Using the Triangle Inequality to Reduce the Number of Comparisons Required for Similarity-Based Retrieval," *Electronic Imaging '96, Storage and Retrieval for Image and Video Databases IV*, San Jose, CA, (Feb. 1996), 392-403.
- Viles, C. L. and J. C. French, "On the Update of Term Weights in Dynamic Information Retrieval Systems," *Proc. 4th International Conference on Information and Knowledge Management (CIKM'95)*, Baltimore, Maryland, Nov. 1995, pp. 167-174.
- Barros, J. E., J. C. French, and W. N. Martin, "Trading Efficiency for Effectiveness in Similarity- Based Indexing for Image Databases," in *Digital Image Storage and Archiving Systems*, C.-C. Jay Kuo, Editor, Proc. SPIE 2606 (1995), pp. 276-287.
- Viles, C. L. and J. C. French, "Dissemination of Collection Wide Information in a Distributed Information Retrieval System," *Proc. 18th International Conference on Research and Development in Information Retrieval (SIGIR'95)*, Seattle, WA, July 1995, pp. 12-20.
- Barros, J. E., J. C. French, W. N. Martin, and P. Kelly, "System for Indexing Multispectral Satellite Images for Efficient Content-Based Retrieval," in *Storage and Retrieval for Image and Video Databases III*, W. Niblack, R. C. Jain, editors, Proc. SPIE 2420, Feb. 1995, pp. 228-237.
- Maly, K., J. C. French, A. Selman, E. A. Fox, "Wide Area Technical Report Service," *Proc. 2nd International World Wide Web Conference, WWW'94* Oct. 1994, pp. 523-533.
- Barros, J. E., J. C. French, W. N. Martin, P. Kelly, and J. M. White, "Indexing Image Databases for Content Based Retrieval," in *Image and Information Systems: Applications and Opportunities (23rd AIPR Workshop)*, Proc. SPIE 2368, Oct. 1994, pp. 25-36.
- Karpovich, J. F., A. S. Grimshaw, and J. C. French, "Extensible File Systems (ELFS): An Object-Oriented Approach to High Performance File I/O," *Proc. of OOPSLA'94*, Oct. 1994, pp. 191-204.
- Karpovich, J. F., J. C. French, and A. S. Grimshaw, "High Performance Access to Radio Astronomy Data: A Case Study," *Proc. of 7th International Conference on Scientific and Statistical Database Management*, Sept. 1994, pp. 240-249.
- Kim, N. H., J. C. French and D. E. Brown, "Boolean Query Reformulation with the Query Tree Classifier," in *Advances in Classification Research*, vol. 4, Learned Information, 1994, pp. 123- 138.
- Pfaltz, J. L. and J. C. French, "Representing Change in Scientific Databases," *Proceedings of the International Symposium on Environmental Information Management and Analysis: Ecosystem to Global Scales*, May, 1993.

- French, J. C., "An Environment for Passively Sharing Information," *Proc. International Space Year Conference on Earth and Space Science Information Systems*, Feb. 1992, pp 632-637.
- Pfaltz, J. L., J. C. French, and A. S. Grimshaw, "Functional Data Representation in Scientific Information Systems," *Proc. International Space Year Conference on Earth and Space Science Information Systems*, Feb. 1992, pp. 788-799.
- French, J. C., T. W. Pratt and M. Das, "Performance Measurement of a Parallel Input/Output System for the Intel iPSC/2 Hypercube," *Proc. 1991 ACM Sigmetrics International Conference on Measurement and Modeling of Computer Systems*, May 1991, 178-187.
- French, J. C., "Characterizing the Balance of Parallel I/O Systems," *Proc. 6th Distributed Memory Computing Conference*, April 1991, pp. 724-727.
- Pfaltz, J. L. and J. C. French, "Implementing Subscripted Identifiers in Scientific Databases," *Proc. 5th International Conference on Statistical and Scientific Database Management* in Lecture Notes in Computer Science 420, Springer-Verlag (April 1990) pp. 80-91.
- Grimshaw, A. S., J. L. Pfaltz, J. C. French, and S. H. Son, "Exploiting Coarse Grained Parallelism in Database Applications," *Proc. PARBASE-90 International Conference on Databases, Parallel Architectures, and their Applications* (Mar. 1990).
- French, J. C., "A Global Time Reference for Hypercube Multicomputers," *Proc. 4th Conference on Hypercube Concurrent Computers and Applications*, (Mar. 1989), pp. 217-220.
- Pfaltz, J. L. and J. C. French, "Parallel Set Operators," *Proc. 4th Conference on Hypercube Concurrent Computers and Applications*, (Mar. 1989), pp. 481-486.
- Son, S. H., J. L. Pfaltz, and J. C. French, "Synchronization of Replicated Data in Parallel Database Systems," *Proc. 4th Conference on Hypercube Concurrent Computers and Applications*, (Mar. 1989), pp. 449-452.
- Pratt, T. W., J. C. French, P. M. Dickens, and S. A. Janet, "A Comparison of the Architecture and Performance of Two Parallel File Systems," *Proc. 4th Conference on Hypercube Concurrent Computers and Applications*, (Mar. 1989), 161-166.
- Pfaltz, J. L., J. C. French, and S. H. Son, "The ADAMS Interface Language," *Proc. 3rd Conference on Hypercube Concurrent Computers and Applications*, (Jan. 1988), 1382-1389.

Invited Articles and Talks

- French, J. C., "Using Multiple Viewpoints to Improve Retrieval Effectiveness in Content-based Image Retrieval," keynote address, *6th IEEE International Symposium on Multimedia Software Engineering (MSE'04)*, Miami, FL December 2004.
- French, J. C., X. Jin and W. N. Martin, "A Multiple Viewpoint Content-based Image Retrieval System," *International Conference on Image and Video Retrieval (CIVR 2004 demo)*, Dublin, Ireland, July 21-23, 2004.
- French, J. C., "Using Multiple Viewpoints to Improve Retrieval Effectiveness in Content-based Image Retrieval," *Focus on the Future "Forecast 2003"* speaker series, National Institute of Standards and Technology, Gaithersburg, MD, December 2003.
- French, J. C., W. N. Martin, J. V. S. Watson, "A Qualitative Examination of Content-Based Image Retrieval Behavior using Systematically Modified Test Images," *45th IEEE International Midwest Symposium on Circuits and Systems*, Tulsa, OK, August 4-7, 2002.
- French, J. C. and D. Hauver, "Flycasting: Using Collaborative Filtering to Generate a Playlist for Online Radio," *Finding Common Ground 2001: AOL Research Day*, Virginia's Center for Innovative Technology, Herndon, VA, November 7, 2001.
- French, J. C., "Extending the Vocabulary for Cross-Disciplinary Searching of EOS Data," NASA ESTO/ESDIS Technology Transfer Workshop, June 5-7, 2000, Greenbelt, MD.
- French, J. C., "Personalized Information Environments," GSA/NSF Digital Government Roundtable: Data Storage, Archival and Retrieval, Potomac Institute for Policy Studies, September 23, 1998.

- French, J. C., A. L. Powell, C. L. Viles, T. Emmitt and K. J. Prey, "Measures for Evaluating Database Selection Techniques." position paper for *DL '98 Metrics Workshop*, Pittsburgh, PA, June 27, 1998.
- French, J. C., "Quality of Information (QoI): Mitigating the Lack of Authority Control," *Proc. of the NSF Invitational Workshop on Distributed Information, Computation and Process Management for Scientific and Engineering Environments (DICPM)*, N. Patrikalakis (ed.), MIT, (position paper) Herndon, VA, May 15-16, 1998, pp. 70-71.
- Powell, A. L. and J. C. French, "Using Multiple Views of a Document Collection in Information Exploration," *CHI'98 Workshop on Innovation and Evaluation in Information Exploration Interfaces*, Los Angeles, CA, April 19, 1998.
- Powell, A. L. and J. C. French, "Using Topic Information to Improve Access to Scientific Document Collections," *SIGIR Workshop on Summarization and Visualization for IR: Reducing the Information Overload*, Philadelphia, PA, July 31, 1997.
- French, J. C., "Database Support for Correlation and Fusion Algorithms," *Workshop on Data Mapping and Matching*, NASA CESDIS, Goddard Space Flight Center, Greenbelt, MD, Nov. 7, 1996.
- French, J. C., "Networked Computer Science Technical Reports Library," *SURA Workshop on Electronic Theses and Dissertations*, Charlotte, NC, August 1-2, 1996.
- Karpovich, J. F., J. C. French and A. S. Grimshaw, "High Performance Access to Radio Astronomy Data: A Case Study," *CESDIS HPCC Workshop*, NASA Goddard Space Flight Center, Greenbelt, MD, May 9-10, 1996.
- Ferrari, A. J., A. S. Grimshaw and J. C. French, "Persistent Active Objects in Legion," *CESDIS HPCC Workshop*, NASA Goddard Space Flight Center, Greenbelt, MD, May 9-10, 1996.
- French, J. C., "NCSTRL: Preliminary Evaluation," NCSTRL Technical Review, CNRI, Reston, VA, March 20, 1996.
- French, J. C., "Library Access, Search, and Retrieval (LASR) Pilot," GCDIS Subgroup of the CENR Task Force on Observations and Data Management, Data Management Working Group of the U.S. Global Change Research Program, Washington, DC, March 14, 1996.
- French, J. C., "Library Access, Search, and Retrieval (LASR) Pilot," Data Management Working Group of the U.S. Global Change Research Program, Washington, DC, March 14, 1996.
- French, J. C. and C. Lagoze, "Networked Computer Science Technical Reports Library," *Dagstuhl Workshop on Networked Information Systems: Discovery, Retrieval, Dissemination*, Saarbrucken, Germany, Feb. 26 - Mar. 1, 1996.
- Lagoze, C. and J. C. French, "Networked Computer Science Technical Reports Library," *ACM Computing Week*, Philadelphia, PA, Feb. 16, 1996.
- French, J. C., "Networked Computer Science Technical Reports Library," CRA Board of Directors, Washington, DC, Dec. 12, 1995.
- French, J. C., "Library Access, Search, and Retrieval (LASR) Pilot," *Global Climate Data and Information System (GCDIS) Data Center Workshop*, Oak Ridge, TN, Sept. 12-14, 1995.
- French, J. C., "Statistical Databases -- Introduction," *Statistics and Computing*, vol. 5, no. 1 (Mar. 1995), p. 2.
- Pfaltz, J. L. and J. C. French, "Scientific Database Management with ADAMS," *Data Engineering*, vol. 16 no. 1, March 1993, pp. 14-18.
- French, J. C., "What is Metadata?," *Proceedings of SDM '92: Scientific Data Management Workshop*, Salt Lake City, UT, Nov. 3-5, 1992.
- French, J. C., A. K. Jones and J. L. Pfaltz, "Summary of the Final Report of the NSF Workshop on Scientific Database Management," *ACM SIGMOD Record* 19, 4 (Dec. 1990), pp. 32-40.
- French, J. C., A. K. Jones and J. L. Pfaltz, "A Summary of the NSF Scientific Database Workshop," *Data Engineering* 13, 3 (Sept. 1990), pp. 55-61.

Unrefereed Publications

- Jin, X., J. C. French and J. Michel, "Query Formulation for Information Retrieval by Intelligence Analysts," Technical Report CS-2005-12, Dept. of Computer Science, University of Virginia, July, 2005.
- French, J. C., J. V. S. Watson, X. Jin and W. N. Martin, "Using Multiple Image Representations to Improve the Quality of Content-Based Image Retrieval," Technical Report CS-2003-10, Dept. of Computer Science, University of Virginia, March, 2003.
- French, J. C., W. N. Martin, J. V. S. Watson, "A Qualitative Examination of Content-Based Image Retrieval Behavior using Systematically Modified Test Images," Technical Report CS-2002-22, Dept. of Computer Science, University of Virginia, August, 2002.
- French, J. C., "Personalized Information Environments," SEAS Technical Report No. UVA/525095/CS02/103 (Final Report), July 2002.
- French, J. C., A. C. Chapin and W. N. Martin, "Using Multiple Viewpoints to Improve Access to Earth Science Data," *Earth Science Technology Conference*, Pasadena, CA, June 2002.
- French, J. C., L. M. Olsen and W. N. Martin, "Thesaurus Support when Searching Earth Science Data," *Earth Science Technology Conference*, Pasadena, CA, June 2002.
- French, J. C. and W. N. Martin, "Extending the Vocabulary for Cross-Disciplinary Searching of EOS Data," SEAS Technical Report No. UVA/528743/CS02/101 (Final Report), April 2002.
- French, J. C. and W. N. Martin, "Integrating a Manual Thesaurus with Automated Term Suggestion," SEAS Technical Report No. UVA/528792/CS02/102 (Final Report), April 2002.
- French, J. C., W. N. Martin and L. M. Olsen, "Extending the Vocabulary Available for Cross-Disciplinary Searching of Earth Science Data," Technical Report CS-2002-04, Dept. of Computer Science, University of Virginia, March, 2002.
- French, J. C., W. Ewing and L. Olsen, "Germany's DLR Thesaurus Being Revived," *Interop Newsletter*, no. 12, August, 2001.
- Chapin, A. C., J. C. French and W. N. Martin, "A Framework for Investigating Multiple Viewpoints in Information Retrieval," *Tapia 2001*, Houston, Texas, October, 2001.
- Prey, K., J. C. French, A. L. Powell and C. L. Viles, "Inverse Document Frequency and Web Search Engines," Technical Report CS-2001-07, Dept. of Computer Science, University of Virginia, February 5, 2001.
- Powell, A. L. and J. C. French, "Approaches for Improving Access to NASA's Scientific Document Collections," SEAS Technical Report No. UVA/528634/CS01/101 (Final Report), August 2000.
- Monroe, G. A., D. R. Mikesell and J. C. French, "Determining Stopping Criteria in the Generation of Web-Derived Language Models," Technical Report CS-2000-30, Dept. of Computer Science, University of Virginia, May 2000.
- O'Neil, E. K. and J. C. French, "A Description of the LAMB Web-Derived Language Model Builder," Technical Report CS-2000-31, Dept. of Computer Science, University of Virginia, May 2000.
- Srinivasa, R., T. Phan, N. Mohanraj, A. L. Powell and J. C. French, "Database Selection Using Document and Collection Term Frequencies," Technical Report CS-2000-32, Dept. of Computer Science, University of Virginia, May 2000.
- Callan, J., A. L. Powell, J. C. French and M. Connell, "The Effects of Query-Based Sampling on Automatic Database Selection Algorithms," Technical Report CMU-LTI-00-162, Language Technologies Institute, School of Computer Science, Carnegie Mellon University, 2000.
- Schulman, Eric, J. C. French and A. L. Powell, "Evaluating Astronomical Institutional Productivity Using the Astrophysics Data System Database," Technical Report CS-2000-02, Dept. of Computer Science, University of Virginia, January 2000.
- Callan, J., A. L. Powell, J. C. French and M. Connell, "The Effects of Query-Based Sampling on Automatic Database Selection Algorithms," Technical Report IR-181, Center for Intelligent Information Retrieval, University of Massachusetts, 1999.
- French, J. C. and A. L. Powell, "Metrics for Evaluating Database Selection Techniques," Technical Report CS-99-19, Dept. of Computer Science, University of Virginia, June 1999.

- Dushay, N., J. C. French and C. Lagoze, "Predicting Indexer Performance in a Distributed Digital Library," Technical Report TR99-1743, Dept. of Computer Science, Cornell University, May 1999.
- French, J. C., A. L. Powell and J. Callan, "Effective and Efficient Automatic Database Selection," Technical Report CS-99-08, Dept. of Computer Science, University of Virginia, February 22, 1999.
- French, J. C., A. L. Powell and J. Callan, "Effective and Efficient Automatic Database Selection," Technical Report IR-167, Center for Intelligent Information Retrieval, University of Massachusetts, 1999.
- Dushay, N., J. C. French and C. Lagoze, "Using Query Mediators for Distributed Searching in Federated Digital Libraries," Computing Research Repository (xxx.cs.DL/9902020), February 1, 1999.
- French, J. C., A. L. Powell, J. Callan, C. L. Viles, T. Emmitt, K. J. Prey and Y. Mou, "Comparing the Performance of Database Selection Algorithms," Technical Report CS-99-03, Dept. of Computer Science, University of Virginia, January 12, 1999.
- Dushay, N., J. C. French and C. Lagoze, "A Characterization Study of NCSTRL Distributed Searching," Technical Report TR99-1725, Dept. of Computer Science, Cornell University, January 1999.
- Powell, A. L. and J. C. French, "Exploiting Multiple Viewpoints for Enhancing Retrieval," Poster presented at *3rd ACM International Conference on Digital Libraries (DL'98)*, Pittsburgh, PA, June 23-26, 1998.
- Powell, A. L. and J. C. French, "The Potential to Improve Retrieval Effectiveness with Multiple Viewpoints," Technical Report CS-98-15, Dept. of Computer Science, University of Virginia, May 14, 1998.
- French, J. C., "Special Project: NCSTRL -- A National Computer Science Technical Report Library," SEAS Technical Report UVA/526253/CS98/101 (Final Report), School of Engineering and Applied Science, Univ. Virginia, 1997.
- Natrajan, A., A. L. Powell, and J. C. French, "Using N-grams to Process Hindi Queries with Transliteration Variations," Technical Report CS-97-17, Dept. of Computer Science, Univ. of Virginia, July 1997.
- French, J. C. and A. S. Grimshaw, "High Performance Databases for Scientific Applications," SEAS Technical Report UVA/528481/CS97/101 (Final Report), School of Engineering and Applied Science, Univ. Virginia, 1997.
- French, J. C., A. L. Powell, and E. Schulman, "Automating the Construction of Authority Files in Digital Libraries: A Case Study," Technical Report CS-97-02, Dept. of Computer Science, Univ. of Virginia, Jan. 1997.
- French, J. C., A. L. Powell, and E. Schulman, "Applications of Approximate Word Matching in Information Retrieval," Technical Report CS-97-01, Dept. of Computer Science, Univ. of Virginia, Jan. 1997.
- Schulman, E., J. C. French, A. L. Powell, S. S. Murray, G. Eichhorn, and M. J. Kurtz, "The Sociology of Astronomical Publication Using ADS and ADAMS," in *Astronomical Data Analysis Software and Systems VI*, edited by G. C. Hunt and H. E. Payne, A.S.P. Conference Series, Vol. 125 (1997), pp. 361-364.
- Schulman, E., A. L. Powell, J. C. French, G. Eichhorn, M. J. Kurtz, and S. S. Murray, "Using the ADS Database to Study Trends in Astronomical Publication," *Bulletin of the American Astronomical Society*, vol. 28, 4 (1996), p. 1281.
- French, J. C. and C. L. Viles, "Exploiting Coauthorship to Infer Topicality in a Digital Library of Computer Science Technical Reports," Technical Report CS-96-20, Dept. of Computer Science, Univ. of Virginia, Dec. 1996.
- Viles, C. L. and J. C. French, "TREC4 Experiments using DRIFT," *4th Text Retrieval Conference*, Gaithersburg, MD, NIST Special Publication 500-236 (Oct. 1996), pp. 549-557.
- French, J. C., G. L. Bull, M. Tarrant, and A. L. Powell, "Library Access, Search and Retrieval (LASR) Pilot (Final Report)," Technical Report CS-96-07, Dept. of Computer Science, Univ. of Virginia, Mar. 1996.

- French, J. C., J. C. Knight, and A. L. Powell, "Hypertext Structures and Software Documentation," Technical Report CS-96-04, Dept. of Computer Science, Univ. of Virginia, Feb. 1996.
- Reilly, S. D., J. L. Pfaltz, J. C. French, "Increasing the Computational Potential of the World Wide Web," Technical Report CS-96-02, Dept. of Computer Science, Univ. of Virginia, Feb. 1996.
- French, J. C., "Towards Improving Scientific Communications: Examining Issues of Scale in a Distributed Information Retrieval System," SEAS Technical Report UVA/528462/CS97/101 (Final Report), School of Engineering and Applied Science, Univ. Virginia, 1996.
- Barros, J., J. C. French, W. Martin, and P. Kelly, "System for Indexing Multi-spectral Satellite Images for Efficient Content-based Retrieval," Technical Report CS-95-06, Dept. of Computer Science, Univ. of Virginia, Jan. 1995.
- Viles, C. L. and J. C. French, "Dissemination of Collection Wide Information in a Distributed Information Retrieval System, Technical Report CS-95-02, Dept. of Computer Science, Univ. of Virginia, Jan. 1995.
- French, J. C., "Evaluation of the Vector Space Model of Information Retrieval as a Filtering Mechanism," SEAS Technical Report UVA/528442/CS9596/101 (Final Report), School of Engineering and Applied Science, Univ. Virginia, 1995.
- Barros, J. E., J. C. French, W. N. Martin, P. Kelly, J. M. White, "Indexing Multispectral Images for Content-Based Retrieval," Technical Report CS-94-40, Dept. of Computer Science, Univ. of Virginia, Oct. 1994.
- French, J. C., E. Fox, K. Maly, A. Selman, "Wide Area Technical Report Service -- technical reports online," *SIGACT News*, vol. 25, no. 3 (Sept. 1994), pp. 124-127.
- Viles, C. L. and J. C. French, "Availability and Latency of World Wide Web Information Servers," Technical Report CS-94-36, Dept. of Computer Science, Univ. of Virginia, Sept. 1994.
- Karpovich, J. F., A. S. Grimshaw, J. C. French, "Breaking the I/O Bottleneck at the National Radio Astronomy Observatory (NRAO)," Technical Report CS-94-37, Dept. of Computer Science, Univ. of Virginia, August 1994.
- Jones, J. D. and J. C. French, "An Archive Service with Persistent Naming for Objects," Technical Report CS-94-35, Dept. of Computer Science, Univ. of Virginia, Aug. 1994.
- Karpovich, J. F., A. S. Grimshaw, J. C. French, "Extensible File Systems (ELFS): An Object-Oriented Approach to High Performance File I/O," Technical Report CS-94-28, Dept. of Computer Science, Univ. of Virginia, July 22, 1994.
- Karpovich, J. F., J. C. French, A. S. Grimshaw, "High Performance Access to Radio Astronomy Data: A Case Study," Technical Report CS-94-25, Dept. of Computer Science, Univ. of Virginia, July 11, 1994.
- Grimshaw, A. S., Wm. A. Wulf, J. C. French, A. C. Weaver, P. F. Reynolds Jr., "Legion: The Next Logical Step Toward a Nationwide Virtual Computer," Technical Report CS-94-21, Dept. of Computer Science, Univ. of Virginia, June 8, 1994.
- Grimshaw, A. S., Wm. A. Wulf, J. C. French, A. C. Weaver, P. F. Reynolds Jr., "A Synopsis of the Legion Project," Technical Report CS-94-20, Dept. of Computer Science, Univ. of Virginia, June 8, 1994.
- Maly, K. J., J. C. French, A. Selman, and E. A. Fox, "Wide Area Technical Report Service," Technical Report TR-94-13, Dept. of Computer Science, Old Dominion Univ., June, 1994.
- Barros, J. E. and J. C. French, "Scalable Database Support for Correlation and Fusion Algorithms," Technical Report IPC-93-05, Institute for Parallel Computation, University of Virginia, October 1993.
- French, J. C., "Estimating Retrieval Regions for Correlation and Fusion Algorithms," Technical Report IPC-93-06, Institute for Parallel Computation, University of Virginia, October 1993.
- Pfaltz, J. L., J. C. French, A. S. Grimshaw, and S. H. Son, "Supporting Data Intensive Applications with Medium Grained Parallelism," SEAS Technical Report UVA/527436/CS93/101 (Interim Report), School of Engineering and Applied Science, Univ. Virginia, 1993.

- Maly, K., J. French, E. Fox, A. Selman, "Prototype System Puts Technical Reports On Line," *Computing Research News*, vol. 5, no. 2 (Mar. 1993), p. 14.
- Maly, K. J., E. A. Fox, J. C. French and A. Selman, "Wide Area Technical Report Service," Technical Report TR-92-44, Dept. of Computer Science, Old Dominion Univ., Dec. 1992.
- French, J. C., "Heuristic Clustering of Signature Files: A New Approach (Preliminary Results)," Technical Report CS-92-42, Dept. of Computer Science, Univ. of Virginia, Sept. 1992.
- French, J. C., "Electronic Distribution of Technical Reports and Working Papers: A Simple Cooperative Approach," Technical Report CS-92-27, Dept. of Computer Science, Univ. of Virginia, Sept. 1992.
- French, J. C. and C. L. Viles, "A Software Toolkit for Developing Distributed Applications," Technical Report CS-92-26, Dept. of Computer Science, Univ. of Virginia, Sept. 1992.
- Pfaltz, J. L. and J. C. French, "Multiple Inheritance and the Closure of Set Operators in Class Hierarchies," Technical Report IPC-92-04, Institute for Parallel Computation, Univ. of Virginia, June 1992.
- Pfaltz, J. L., J. C. French, A. S. Grimshaw, and S. H. Son, "Supporting Data Intensive Applications with Medium Grained Parallelism," SEAS Technical Report UVA/527435/CS92/101 (Interim Report), School of Engineering and Applied Science, Univ. Virginia, 1992.
- French, J. C., "An Environment for Passively Sharing Technology," SEAS Technical Report UVA/530802/CS93/101 (Final Report), School of Engineering and Applied Science, Univ. Virginia, 1992.
- French, J. C., "An Environment for Passively Sharing Information," SEAS Technical Report UVA/538393/CS93/101 (Final Report), School of Engineering and Applied Science, Univ. Virginia, 1992.
- Pfaltz, J. L., J. C. French and A. S. Grimshaw, "An Introduction to the ADAMS Interface Language: Part 1," Technical Report IPC-91-06, Institute for Parallel Computation, Univ. of Virginia, Apr. 1991.
- French, J. C., T. W. Pratt, M. Das, "Performance Measurement of a Parallel Input/Output System for the Intel iPSC/2 Hypercube," Technical Report IPC-91-02, Institute for Parallel Computation, Univ. of Virginia, Jan. 1991. January 21, 1991.
- Pfaltz, J. L., S. H. Son, and J. C. French, "Implementation of a Hypercube Database System," SEAS Technical Report UVA/527387/CS91/103 (Final Report), School of Engineering and Applied Science, Univ. Virginia, 1991.
- French, J. C., A. K. Jones and J. L. Pfaltz, eds., "Scientific Database Management: Final Report," Technical Report CS-90-21, Department of Computer Science, Univ. of Virginia, Aug. 1990.
- French, J. C., A. K. Jones and J. L. Pfaltz, eds., "Scientific Database Management: Panel Reports and Supporting Material," Technical Report CS-90-22, Department of Computer Science, Univ. of Virginia, Aug. 1990.
- Pfaltz, J. L., S. H. Son, and J. C. French, "Implementation of a Hypercube Database System," SEAS Technical Report UVA/527387/CS90/102 (Interim Report), School of Engineering and Applied Science, Univ. Virginia, 1990.
- French, J. C. and T. W. Pratt, "Performance Measurement of Two Parallel File Systems," *Supercomputing '89* poster paper (Nov. 1989).
- French, J. C. and T. W. Pratt, "Performance Measurement of Two Parallel File Systems," Technical Report IPC-89-13, Institute for Parallel Computation, Univ. of Virginia, Nov. 1989.
- Pfaltz, J. L., J. C. French, A. S. Grimshaw, S. H. Son, et. al., "Implementation of the ADAMS Database System," Technical Report IPC-89-10, Institute for Parallel Computation, Univ. of Virginia, Feb. 1989.
- Pfaltz, J. L., J. C. French, S. H. Son, A. S. Grimshaw, et. al., "The ADAMS Database Language," Technical Report IPC-89-02, Institute for Parallel Computation, Univ. of Virginia, Feb. 1989.
- Pfaltz, J. L., S. H. Son, and J. C. French, "Implementation of a Hypercube Database System," SEAS Technical Report UVA/527387/CS89/101 (Interim Report), School of Engineering and Applied Science, Univ. Virginia, 1989.

French, J. C., "A Global Time Reference for Hypercube Multicomputers," Technical Report IPC- 88-10, Institute for Parallel Computation, Univ. of Virginia, Oct. 1988.

Pfaltz, J. L., J. C. French, and J. L. Whitlatch, "Scoping Persistent Name Spaces in ADAMS," Technical Report IPC-88-03, Institute for Parallel Computation, Univ. of Virginia, June 1988.

Pfaltz, J. L., J. C. French, and S. H. Son, et al., "Basic Database Concepts in the ADAMS Language Interface for Process Service," Technical Report IPC-87-01, Institute for Parallel Computation, Univ. of Virginia, Nov. 1987.

French, J. C., "An Investigation of IDAM File Organizations," Technical Report DAMACS 82-08, Department of Computer Science, Univ. of Virginia, Aug. 1982.

French, J. C., An Investigation of IDAM File Organizations. Ph.D. dissertation, Department of Applied Mathematics and Computer Science, Univ. Virginia, 1982

French, J. C., Scheduling Tasks in a Multiprocessor Environment. Master's thesis, Department of Applied Mathematics and Computer Science, Univ. Virginia, 1979.

UNIVERSITY SERVICE

University

Faculty Information Technology Skills Task Force 2000-2001.

University Libraries Committee, 1998-2004.

University Committee on Information Technologies (UCIT), 1998-1999.

UCIT Specialized Technology Facilities Subcommittee (Chair), 1998-1999.

University Libraries Subcommittee on Scholarly Communication, 1999-2000.

Advisor to Alderman Library's Electronic Theses and Dissertations Initiative (ETD) Committee, 1997-2003.

University Committee on Information Technology (UCIT), Expert Group on IT in Instruction, Subcommittee on Classroom Tools, 1996.

Advisory Group for Science and Engineering Library, 1996-2000.

School of Engineering and Applied Science

Library Committee, 1997-2000.

Department of Computer Science

Retention/Recruitment of Women, 2000-2002.

Computing Environment, 1999.

Graduate Admissions Committee, 1997-2000.

Library (Chair), 1990-2004.

Technical Report Distribution (Chair), 1989-2002.

Ad hoc committee to evaluate acquisition of INSPEC for department, 1995.

Webcomm, departmental WWW oversight committee, 1995-2000.

Search committee to replace support staff supervisor, 1995.

CIT Technology Focus, "Toward Digital Libraries: Dissemination of Technical Information," Charlottesville, VA, June 1, 1995.

CIT Technology Focus, "Dissemination of Technical Information via the Internet," Charlottesville, VA, June 2, 1994.

Computer Science Faculty Library Advisor to Science Engineering Library, 1992-2004.

Ad hoc IIP committee to recommend equipment purchase, 1992-1993.

Judge in two programming contests held during National Engineer's Week, 1991.

Ad hoc committee investigating ways in which the Computer Science Department might become involved with area schools (Chair), 1990.
Christmas committee, 1990, 1999, 2000.

Teaching

CS 851: Information Retrieval, 1991.
CS 851: Electronic Text Filtering (with A. K. Jones), 1993.
CS 856: Advanced Operating Systems (with A. S. Grimshaw), 1994.
CS 851: Information Retrieval, 1996.
CS 390: Seminar, lectured 1996, 1997, 1998.
CS 851: Distributed Information Retrieval, 2000.

SPONSORED RESEARCH

Pfaltz, J. L., S. H. Son and J. C. French, "Implementation of a Hypercube Database System," Department of Energy, \$520,773, July 1988 - June 1991.
Jones, A. K. and J. C. French, "Scientific Database Workshop," National Science Foundation, \$25,378, June 1989 - February 1990.
Ortega, J. M., D. E. Brown, P. F. Reynolds, J. L. Pfaltz and J. C. French, "Development Plans for an Institute for Parallel Computation," Jet Propulsion Laboratory, \$475,880, October 1990 - September 1991.
Brown, D. E., P. F. Reynolds, J. L. Pfaltz and J. C. French, "Development Plans for an Institute for Parallel Computation," Jet Propulsion Laboratory, \$498,895 June 1991 - May 1992.
French, J. C., "An Environment for Passively Sharing Information," Simpson Weather Associates, \$20,500, July 1991 - June 1992.
French, J. C., "An Environment for Passively Sharing Information," Virginia Center for Innovative Technology, \$16,506, July 1991 - June 1992.
Pfaltz, J. L., J. C. French, A. S. Grimshaw and S. H. Son, "Supporting Data Intensive Applications with Medium Grained Parallelism," Department of Energy, \$796,423 July 1991 - June 1994.
Brown, D. E., P. F. Reynolds, J. L. Pfaltz and J. C. French, "Development Plans for an Institute for Parallel Computation," Jet Propulsion Laboratory, \$607,000 June 1992 - May 1993.
Brown, D. E. and J. C. French, "Development Plans for an Institute for Parallel Computation," Jet Propulsion Laboratory, \$200,000 June 1993 - May 1994.
Maly, K. J., J. C. French, E. A. Fox, and A. L. Selman, "Electronic Dissemination of Technical Reports," National Science Foundation, \$22,736, March 1993 - April 1994.
French, J. C., "Toward Improving Scientific Communication: Examining Issues of Scale in a Distributed Information Retrieval System," Graduate Student Researchers Program (C. L. Viles), National Aeronautics and Space Administration, Goddard Space Flight Center, \$66,000, July 1993 - June 1996.
French, J. C. and A. S. Grimshaw, "High Performance Databases for Scientific Applications," NASA Center for Excellence in Space Data and Information Sciences (CESDIS), \$150,000, August 1993 - July 1996.
French, J. C., "Support for Seventh International Conference on Scientific and Statistical Database Management," National Aeronautics and Space Administration, \$5,000, March 1994 - December 1994.
French, J. C., "Support for Seventh International Conference on Scientific and Statistical Database Management," National Oceanic and Atmospheric Administration, \$5,000, March 1994 - December 1994.

French, J. C., "Evaluation of IMS Graphical User Interface," Simpson Weather Associates, \$3,800, April 94 - Aug 1994.

French, J. C. and G. Bull, "Establishing a Prototype Environmental Community Access and Networking Program (PECAN) for Community Use and Assessment of the Global Change Data and Information System (GCDIS)," National Aeronautics and Space Administration, Headquarters, \$99,000, September 1994 - August 1995.

Pfaltz, J. L., J. C. French, P. Kanciuik and P. Singley, "A Metadata Approach to the Access of Atmospheric Data," Department of Energy, \$621,089, Apr. 1995 - Mar. 1998.

Weaver, A. C., R. Simoncic, J. Liebeherr, and J. C. French, "COIN -- Commerce on the Internet," Center for Innovative Technology, \$99,723, June 1995 - Dec., 1995.

Grimshaw, A. S., Wm. A. Wulf, and James C. French, "Legion Core Development," Sandia National Laboratories, \$99,541, Feb. 1996 - Feb. 1997.

Grimshaw, A. S. and J. C. French, "Distributed Object Computational Testbed," General Atomics (Electronic Systems Center, Air Force Material Command), \$300,000, Feb. 1996 - July 1997.

Weaver, A. C., J. C. French, and J. Liebeherr, "Virginia Business Intellectual Resources Guide," Center for Innovative Technology, \$50,828, Feb. 1996 - Jan. 1997.

Weaver, A. C., J. C. French, and J. Liebeherr, "InterCom -- the Internet Commerce Project," Center for Innovative Technology, \$84,724, June 1996 - May 1997.

French, J. C., "NCSTRL: A National Computer Science Technical Report Library," National Science Foundation, \$64,128, Apr. 1996 - Sept. 1996.

Grimshaw, A. S., Wm. A. Wulf, and James C. French, "Legion Core Development," Department of Energy, \$1,200,000, Mar. 1996 - Feb. 1999.

Grimshaw, A. S., J. C. French, Wm. A. Wulf, P. F. Reynolds, Jr., and A. C. Weaver, "Legion: The Next Logical Step Toward a Nationwide Virtual Computer," DARPA, \$2,414,473, July 1996 - June 1999.

Grimshaw, A. S., Wm. A. Wulf and J. C. French, "Legion Support for the Intelligent Metacomputer Center," DARPA (via SDSC), \$300,000, July 1996 - Dec. 1997.

French, J. C., "NCSTRL: A National Computer Science Technical Report Library," National Science Foundation, Research Experiences for Undergraduates (supplement), \$10,000, Aug. 1996 - Sept. 1997.

French, J. C. and A. S. Grimshaw, "Personalized Information Environments," DARPA/ITO, \$627,899, June 1997 - June. 2000.

Grimshaw, A. S., J. Jokl, J. French, and A. Weaver, "Networks, Middleware, and Applications for Next Generation Metasystems," NSF (connections program), \$350,000, Feb. 1997 - Jan. 1999.

French, J. C., "Approaches for Improving Access to NASA's Scientific Document Collections," Graduate Student Researchers Program (A. L. Powell), National Aeronautics and Space Administration, NASA Headquarters, \$66,000, July 1997 - June 2000.

Weaver, A. C. and J. C. French, "Implementation of the CIT Corporate Database," Center for Innovative Technology, \$55,000, June. 1998 - May 2000.

Weaver, A. C. and J. C. French, "Corporate Database Implementation on the WWW," Center for Innovative Technology, \$55,000, June. 1998 - May 2000.

Weaver, A. C., J. C. French, and (Co-PI's from Virginia Tech, Christopher Newport University, George Mason University) "Internet Technology Innovation Center (ITIC)," Center for Innovative Technology, \$2,000,000, Sept. 1998 - Sept. 2003.

French, J. C. and W. N. Martin, "Extending the Vocabulary for Cross-Disciplinary Searching of EOS Data," National Aeronautics and Space Administration, \$153,917, July 1999 - June 2000.

French, J. C., "The National Technology Initiative," Dept. of Education (subcontract via Curry School of Education, UVa), \$124,000, Sept 1999 - August 2000.

French, J. C. and W. N. Martin, "Integrating a Manual Thesaurus with Automated Term Suggestion," National Aeronautics and Space Administration, \$82,338, July 2000 - December 2000.

Weaver, A. C. and J. C. French, "Internet Visioning for Advance Auto," Virginia Tech, \$18,000, January 2000 - December 2000.

French, J. C., "Personalized Information Environments (IM Evaluation Project)," DARPA/ITO, \$201,276, Dec. 2000 - Dec. 2001.

French, J. C., "IMPACT II: Establishing a Technology and Teacher Education Policy," Dept. of Education (subcontract via Curry School of Education, UVa), \$15,500, July 2001 - June 2003.

French, J. C., E. A. Fox and K. Maly, "A Sustainable, OAI-based Implementation of NCSTRL," Internet Technology Innovation Center, \$30,000, July 2001 - June 2002.

French, J. C. and W. N. Martin, "Providing Thesaurus Support to NASA Earth Science Data Systems," National Aeronautics and Space Administration, \$92,205, April 2002 - January 2003.

French, J. C., "Evaluation of Technologies for Reranking Search Results," Science Applications International Corporation (SAIC), \$35,590, September 2004 - May 2005.

French, J. C., "Investigation and Adaptation of Lucene," Science Applications International Corporation (SAIC), \$10,000, July 2005 - November 2005.

GRADUATE STUDENTS

Former

Brad Segal, MCS 1990	Cheng Tang, MCS 1991	Mriganka Das, MS 1991
Lana DuRant, MCS 1992	Jerome Terry, MCS 1992	Julio Barros, MCS 1993
Nam Ho Kim, Ph.D. 1993	Matt Judd, MCS 1993	Sonia Henry, MCS 1993
Xiao Zhu, MCS 1994	Jeff Bloom, MCS 1994	Francis Julian, MCS 1994
John Jones, MCS 1994	Greg Wohlford, MCS 1995	Mary Ann Stumbaugh, MCS 1995
Allison Powell, MCS 1995	Sean Reilly, MCS 1995	Charles Viles, Ph.D 1996
Travis Emmitt, MCS 1999	Bei Wu, MCS 2000	Tram Phan, MCS 2000
Gary Monroe, MCS 2000	Edward O'Neil, MS 2001	Allison Powell, Ph.D. 2001
Kellie-Ann Smith, MCS 2006		

Current

X. Jin
K. Smith

Student Awards

Charles Viles, Outstanding Research Graduate Student, 1995-96.

Allison Powell, Outstanding Research Graduate Student, 1997-98.

T. J. Funkhouser, Undergraduate Research and Design Symposium Finalist, 1999.

David Hauver, CRA Outstanding Undergraduate Award (honorable mention), 2000-01.

David Hauver, Computer Science Research Award, 2000-01.

David Hauver, Undergraduate Research and Design Symposium Finalist, 2001.

Edward O'Neil, Outstanding Research Graduate Student, 2000-01.

Allison Powell, UMI Doctoral Dissertation Award, 2001.

Xiangyu Jin, Outstanding Research Graduate Student, 2004-5.

Theses and Projects Directed

Graduate:

- Segal, B., "ADAMS Interactive Dictionary Browser," Master's Project, Dept. of Computer Science, Univ. of Virginia, 1990.
- Tang, C., "TRAPS: A Translator for Postscript Documents," Master's Project, Dept. of Computer Science, Univ. of Virginia, 1991.
- Das, M., "A Study of Some Algorithms for Partitioning Signature Files," Master's Thesis, Dept. of Computer Science, Univ. of Virginia, 1991.
- Terry, J., "Collection and Distribution of Technical Reports," Master's Project, Dept. of Computer Science, Univ. of Virginia, 1992.
- Durant, L., "A Bibliographic Citations Query System in ADAMS," Master's Project, Dept. of Computer Science, Univ. of Virginia, 1992.
- Barros, J., "Scalable Database Support for Correlation and Fusion Algorithms," Master's Project, Dept. of Computer Science, Univ. of Virginia, 1993.
- Henry, S., "Evaluation of the Vector Space Model of Information Retrieval as a Filtering Mechanism," Master's Project, Dept. of Computer Science, Univ. of Virginia, 1993.
- Kim, N., "A Classification Approach to the Automatic Reformulation of Boolean Queries in Information Retrieval," Ph.D. Dissertation, Dept. of Systems Engineering, Univ. of Virginia, 1993 (coadvisor with D. E. Brown).
- Judd, M., "A Performance Analysis of Two Implementations of Sets in ADAMS," Master's Project, Dept. of Computer Science, Univ. of Virginia, 1993.
- Zhu, X., "IUFROS: An Individual-based User Flexible and Redefinable Open Simulator of Forest Growth and Succession," Master's Project, Dept. of Computer Science, Univ. of Virginia, 1994.
- Julian, F., "Speeding Up Searches with Clustered Signatures," Master's Project, Dept. of Computer Science, Univ. of Virginia, 1994.
- Bloom, J., "ABuilder: A Visual Interface Toolkit for the ADAMS Database System," Master's Project, Dept. of Computer Science, Univ. of Virginia, 1994.
- Jones, J., "An Archive Service with Persistent Naming for Objects," Master's Project, Dept. of Computer Science, Univ. of Virginia, 1994.
- Wohlford, G., "Evaluation of N-Grams as Index Elements in Information Retrieval," Master's Project, Dept. of Computer Science, Univ. of Virginia, 1995.
- Stumbaugh, M., "A World-Wide Web Interface for Technical Report Archives," Master's Project, Dept. of Computer Science, Univ. of Virginia, 1995.
- Powell, A., "A Systematic Approach to Creating and Maintaining Software Documentation," Master's Project, Dept. of Computer Science, Univ. of Virginia, 1995.
- Reilly, S. D., "Increasing the Computational Potential of the World Wide Web," Master's Project, Dept. of Computer Science, Univ. of Virginia, 1995 (coadvisor with J. L. Pfaltz).
- Viles, C. L., "Maintaining Retrieval Effectiveness in Distributed, Dynamic Information Retrieval Systems," Ph.D. Dissertation, Dept. of Computer Science, Univ. of Virginia, 1996.
- Emmitt, T., "Cue-Validity Variance Database Selection Algorithm Enhancement," Master's Project, Dept. of Computer Science, Univ. of Virginia, 1999.
- Wu, B., "Building a Digital Library for the Publications of the Computer Science Department," Master's Project, Dept. of Computer Science, Univ. of Virginia, 2000.
- Phan, T., "A Design and Implementation of Access Control for Distributed Digital Objects and Repositories," Master's Project, Dept. of Computer Science, Univ. of Virginia, 2000.
- Monroe, G. A., "An Investigation of Language Models of Web Databases Generated Using Query-Based Sampling Techniques," Master's Project, Dept. of Computer Science, Univ. of Virginia, 2000.
- Powell, A. L., "Database Selection in Distributed Information Retrieval: A Study of Multi-Collection Information Retrieval," Ph.D. Dissertation, Dept. of Computer Science, Univ. of Virginia, 2001. (2001 UMI Doctoral Dissertation Award, American Society for Information Science and Technology.)

- O'Neil, E. K., "Selective Dissemination of Information in the Dynamic Web Environment," Master's Thesis, Dept. of Computer Science, Univ. of Virginia, 2001.
- Smith, K., "Nancy's Pantry: Assisting the Visually Impaired with Restaurant Meal Selection," Master's Project, Dept. of Computer Science, Univ. of Virginia, 2006.

Undergraduate:

- Werbel, D., "Design of a Data Visualization System," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 1992.
- Logan, M., "Global Time: Time Synchronization in the Intel iPSC/2 Hypercube," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 1992.
- Gomez, C., "University Course Information System: A Class Scheduler and Course Information Database," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 1993.
- Gabel, J., "Designing a Portable User Interface for Posting Technical Reports to WATERS," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 1994.
- Nguyen, E. H., "USA Today CD-ROM Development System," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 1995.
- Ryan, M., "Geographic Information Systems on the World Wide Web," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, January 1997.
- Moore, M., "Electronic Submission of Undergraduate Theses: A Case Study for the Implementation of a University-Wide Program for the Electronic Submission and Online Archiving of Theses and Dissertations," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 1997.
- Zha, Y., "Electronic Publishing for a Professional Society: Design and Implementation of Online ACM SIGIR Conference Proceedings," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 1997.
- Nelson, E., "Results Merging in the Networked Computer Science Technical Reports Library (NCSTRL)," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, December 1997.
- Young, B., "Selective Searching over the Networked Computer Science Technical Report Library (NCSTRL)," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, December 1997.
- Connelly, Z., "Electronic Submission of Undergraduate Theses: A Continuation and Enhancement of the Online Archiving of Undergraduate Theses," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 1998.
- Lee, J., "Java and Activex: A Comparative Analysis," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 1998.
- Prillaman, B., "The Implementation of the Crash Outcome Data Evaluation System for the Commonwealth of Virginia," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 1998.
- Spinelli, P., "A Web-based Car Ride System for UVA Students," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, December 1998.
- Nguyen, G., "CS Department Papers Online," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, December 1998.
- Funkhouser, T. J., "The Technology, Culture, and Communication Toolkit: A Web-based Application for TCC Advisors and Students," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 1999. (Undergraduate Research and Design Symposium Finalist.)
- Le, T., "Developing an Efficient Digital Case Delivery System to Improve Engineering and Science Ethics Education," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, December 1999.
- Bianchetti, M., "A Web-based Tool for Creating and Maintaining a Corporate Intranet Site," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 2000.
- Knight, R., "Development of the Online Virginia Licensure Renewal System," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 2000.

- McDonald, J., "Electronic Submission of Undergraduate Theses: Aesthetic and Security Enhancements to the University of Virginia Electronic Submission System," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 2000.
- Moore, J., "Design and Implementation of a Java-based Course Scheduler Application for Undergraduate and Graduate Students Attending the University of Virginia," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 2000.
- Ogle, V., "Study of Search Engine Strategies through Black Box Testing," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 2000.
- Wong, D., "A Convenient Storage Catalog for Graphic Novels: Creating an Online Searchable Database," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 2000.
- Robbins, B., "An Interactive Search Assistant for the EOS Database," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, August 2000.
- Ho, S., "The Design and Implementation of the Online Ordering and Delivery Tracking System," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, December 2000.
- Hauver, D., "Flycasting: Using Collaborative Filtering to Generate a Playlist for an Online Radio Station," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 2001. (Undergraduate Research and Design Symposium Finalist.)
- Chatlani, P., "Relevance Feedback for Web Searches," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 2001.
- Watson, J. W., "Feature Fetch: A Digital Image Search Engine Based on Pre-Defined Features," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 2002.
- Thompson, J., "Skew T, Log P Diagram Plotting and Analysis Tool," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 2002.
- Hanson, M., "Examining a Distributed Information Model as a Solution for Effective Information Dissemination and Acquisition on the World Wide Web," Senior Thesis, Dept. of Electrical Engineering, Univ. of Virginia, May 2002.
- Coleman, D., "Making the Networked Computer Science Technical Reference Library Open Archives Initiative-Compliant," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 2002.
- King, M., "Category History Analysis: A New Approach to Search Engine Ranking Systems," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 2003.
- Mitchell, M., "Descriptive Metadata Services: Advancing the Adoption of the Semantic Web," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 2003.
- Hang, A., "Distributed Computing in Traffic Condition Monitoring," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, 2004.
- Hill, M., "Developing and Evaluating the Accuracy of an Automated Article Extractor for Internet News Sites," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 2005.

Undergraduate in progress:

- Rodriguez, J., "Facilitating the Sharing of Healthcare Information Amongst Healthcare Providers through Electronic Medical Records," Senior Thesis, Dept. of Computer Science, Univ. of Virginia, May 2006.