

W. Ryan Richardson	
	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>(Local) 109 Lake Ave Salem, VA 24153 (540) 312-0585 ryanr@vt.edu</p> </div> <div style="text-align: center;"> <p>(Work) Department of Computer Science 2050 Torgersen Hall Virginia Tech (540) 231-6256 Blacksburg, VA 24061</p> </div> </div>
EDUCATION	<p>Ph.D., Computer Science, conferred Aug 11, 2007 Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, Virginia</p> <ul style="list-style-type: none"> • Dissertation entitled "Using Concept Maps as a Tool for Cross-Language Relevance Determination" <p>M.S., Computer Science, May 2000 Virginia Tech, Blacksburg, Virginia Overall GPA 3.65</p> <ul style="list-style-type: none"> • Instructor for CS 1044 – Introduction to Programming in C++, 60 students, Summer 2000 • 5 semesters as graduate teaching assistant <p>B.A., Computer Science, December 1997 Bellarmino University, Louisville, Kentucky</p>
PROFESSIONAL AFFILIATIONS	<p>Member of Association for Computing Machinery (ACM) Member of Upsilon Pi Epsilon (UPE), the computer science honor society</p>
COMPUTING SKILLS	<ul style="list-style-type: none"> • Programming Languages: Perl, C/C++, JAPE (Java Annotation Pattern Engine), Pascal/Delphi • Markup languages: HTML, XML, XSLT • Operating Systems: Linux (Debian, SUSE, Red Hat), Windows • Databases: MySQL, Oracle
WEBSITE	<p>http://ccrd1.cc.vt.edu/~ryanr</p>

PUBLICATIONS

- *Ryan Richardson*, Venkat Srinivasan, Edward A. Fox, "Knowledge Discovery in Digital Libraries of Electronic Theses and Dissertations: An NDLTD Case Study", invited paper for publication in the International Journal on Digital Libraries.
- *Ryan Richardson*, Edward A. Fox, "Using Concept Maps in NDLTD as a Cross-Language Summarization Tool for Computing-Related ETDs", in proceedings of Electronic Theses and Dissertations conference (ETD 2007), Uppsala, Sweden, Jun 2007.
- *Ryan Richardson*, Edward A. Fox. "Using Bilingual ETD Collections to Mine Phrase Translations". In proceedings of the Joint Conference on Digital Libraries (JCDL 2007), Vancouver, Canada, Jun 2007, 352-353.
- *Ryan Richardson*, Ben Goertzel, Edward A. Fox, Hugo Pinto. "Automatic Creation and Translation of Concept Maps for Computer Science-Related Theses and Dissertations", Poster and short paper in proceedings of Concept Mapping Conference (CMC '06), San Jose, Costa Rica, Sep 2006, 160-163.
- Uma Murthy, *Ryan Richardson*, Edward A. Fox. "Enhancing Concept Mapping Tools Below and Above to Facilitate the Use of Superimposed Information", Proceedings of Concept Mapping Conference (CMC '06), San Jose, Costa Rica, Sep 2006, 197-203.
- Deborah Duong, Ben Goertzel, Jim Venuto, *Ryan Richardson*, Edward A. Fox. "Support Vector Machines in a Voting System of Entity Extractors", Proceedings of International Joint Conference on Neural Networks (IJCNN), Vancouver, Canada, Jul 2006.
- *Ryan Richardson*, Edward A. Fox. "Evaluating Concept Maps As A Cross-Language Knowledge Discovery Tool For NDLTD", Proceedings of Electronic Thesis and Dissertation Conference (ETD 2005), Sydney, Oct 2005, 61-67.
- *Ryan Richardson*, Edward A. Fox. "Using concept maps in digital libraries as a cross-language resource discovery tool", Proceedings of ACM/IEEE Joint Conference on Digital Libraries (JCDL 2005), Denver, Jun 2005: 256-257.
- Saverio Perugini, Kate McDevitt, *Ryan Richardson*, Manuel A. Pérez-Quiñones, Rao Shen, Naren Ramakrishnan, Chris Williams, Edward A. Fox, "Enhancing usability in CITIDEL: multimodal, multilingual, and interactive visualization interfaces", in proceedings of the Joint Conference on Digital Libraries (JCDL '04), Tucson, Jun 2004, 315-324.
- Edward A. Fox, Marcos André Gonçalves, Ming Luo, Yuxin Chen, Aaron Krowne, Baoping Zhang, Kate McDevitt, Manuel A. Pérez-Quiñones, *Ryan Richardson*, Lillian N. Cassel: Harvesting: Broadening the Field of Distributed Information Retrieval. Distributed Multimedia Information Retrieval 2003: 1-20 (Book chapter).
- Ashwini Pande, Malini Kothapalli, *Ryan Richardson*, Edward A. Fox, "Mirroring an OAI archive on the I2-DSI channel", in proceedings of the Joint Conference on Digital Libraries (JCDL '02), Jul 2002, 293-294.
- Marcos André Gonçalves, Paul Mather, Jun Wang, Ye Zhou, Ming Luo, *Ryan Richardson*, Rao Shen, Liang Xu, Edward A. Fox. "Java MARIAN: From an OPAC to a Modern Digital Library System", SPIRE 2002: 194-209.
- *Ryan Richardson*, Christine Shannon. "Palindrome pictures", [Computers & Graphics 20\(4\)](#): 597-603, 1996.

W. Ryan Richardson

CONFERENCE PRESENTATIONS	<ul style="list-style-type: none">• Presented a full paper, short paper, and poster (see publications) at the 2nd Concept Mapping Conference (CMC '06) in San Jose, Costa Rica• Presented papers, posters, and demos at the Joint Conference on Digital Libraries (JCDL) in 2002, 2004, and 2005• Presented a poster entitled "Concept Maps as Visual Interfaces to Digital Libraries" at the European Conference on Digital Libraries (ECDL 2003)• Presented a 3-hour tutorial (in Spanish) on the Open Archives Initiative (OAI) at the Amigos 2002 Conference in Puebla, Mexico.
OTHER RELEVANT EXPERIENCE	<p>Computer Science Instructor, Virginia Tech, Jan-May 2008</p> <ul style="list-style-type: none">• CS 2606: Data Structures and Object-Oriented Development• Taught in C++• Class size: 30 students <p>Postdoctoral researcher LIKES Project, Aug 2007 – May 2008</p> <ul style="list-style-type: none">• The LIKES project ("Living In the KnowlEdge Society") aims for the integration of the teaching of computing concepts in non-computing disciplines, while promoting techniques for integrating computing and non-computing curricula. LIKES also aims to increase undergraduate enrollment in computer science, information technology, and related fields.• Planned 2 workshops, at Santa Clara University and North Carolina A&T, for faculty, administrators, and business leaders interested in the future of computing education. <p>GRA, June 2006 – Dec 2006 IMLS Metrics Project</p> <ul style="list-style-type: none">• Assessed usability of MetaScholar QM-Search prototype of CITIDEL web interface• Planned user experiments on metadata-aware search engine <p>GRA, January 2005 – May 2006 RDEC/ACE Project</p> <ul style="list-style-type: none">• Evaluated state-of-the-art technologies in document understanding, such as SVM, LSI, NSF, Wordnet, etc., for a private defense contractor.• Extracted person names from a defense-related corpus for use in social network understanding algorithms. <p>GRA, June 2003 – Dec 2004 CITIDEL Project</p> <ul style="list-style-type: none">• Developed and maintained digital library of computing education materials with over 600 registered users and 480,000 resources, using XML plus XSLT, using Perl• Made enhancements to interface and search functionality• Added multiple specialized collections to CITIDEL DL <p>GRA, May 2001 – May 2003 NSF/CONACYT Project on High Performance Digital Libraries in the Open Archives Initiative</p> <ul style="list-style-type: none">• Wrote parser in Java for MARIAN DL for English and Spanish documents <p>Instructor, May-June 2000</p> <ul style="list-style-type: none">• CS 1044, Introduction to Programming in C++• Class size: 60 students
ADDITIONAL EXPERIENCE	<p>Database/Application Programmer, May 1997 – August 1998 CGN & Associates, Louisville, Kentucky</p> <ul style="list-style-type: none">• Wrote RPC code for Oracle database, which interacted with VisualBasic front-end. Application written for General Electric (GE) Appliance Park.