

JOEL COFFMAN

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Department of Computer Science	157 Yellowstone Dr.
School of Engineering and Applied Science	Apt. 305 A
University of Virginia	Charlottesville, VA 22903
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EDUCATION

University of Virginia	Charlottesville, VA
Ph.D. in Computer Science	(expected) May 2012
Dissertation: <i>Creating Deployable Relational Keyword Search Systems</i>	Adviser: Alfred C. Weaver

M.S. in Computer Science	May 2009
Thesis: <i>Effective Searching in Structured Data</i>	Adviser: Alfred C. Weaver

Furman University	Greenville, SC
B.S. in Computer Science (<i>summa cum laude</i>)	June 2007

HONORS AND AWARDS

McGaughey Fellowship, University of Virginia, 2011–2012

Graduate Student Award for Service, Department of Computer Science, University of Virginia, 2011

Finalist, 2009 University of Virginia Engineering Research Symposium

Computer Science Faculty Award, Furman University, 2007

Dean's List, Furman University, Fall 2004 – Spring 2007

Physics Faculty Award for introductory physics, Furman University, 2005

Duke Scholar at Furman University, South Carolina **Palmetto Fellows Scholar**, **National Merit Scholar**, **Robert C. Byrd Scholar**

Societies

Golden Key International Honour Society, inducted October 2011

Phi Beta Kappa, inducted May 2007

Upsilon Pi Epsilon (Computer Science honor society), inducted February 2006

Phi Eta Sigma (freshman honor society), inducted Spring 2005

EMPLOYMENT

University of Virginia	Charlottesville, VA
Graduate Teaching Assistant	2011–2012
Graduate Research Assistant	2007–2011
Furman University	Greenville, SC
Research Assistant	2005–2007
Lab Assistant	2005–2007
Wilson Hall School	Sumter, SC
Webmaster	2001–2005

TEACHING

Graduate Teaching Assistant , University of Virginia	2011–2012
CS 4750: Database Systems	Spring 2012
CS 4753: Electronic Commerce Technologies	Fall 2011
• created series of assignments around social networking case study,	
• lectured on web technologies,	
• assisted writing and grading exams	
Lab Assistant , Furman University	2005–2007
Assisted course labs and managed night and weekend labs	
CS 11: Introduction to Computer Science I	Spring 2007
CS 12: Introduction to Computer Science II	Fall 2006, Spring 2007
CS 25: Computer Organization	Spring 2006, Spring 2007

SERVICE

Steering Committee, Computer Science Graduate Student Group, University of Virginia, 2010–2011

- Represented graduate students at weekly faculty meetings
- Planned departmental activities (e.g., orientation, annual picnic, student visitation weekend)
- Co-authored preliminary version of graduate student handbook detailing policies and requirements of the graduate program
- Worked with admission committee to make substantial changes to visitation weekend for prospective students resulting in more than 50% of students accepting admission offers

Desk Tsar, Department of Computer Science, University of Virginia, 2008–2012

- Responsible for allocating desk space

Maintainer of Computer Science graduate guide, 2011–2012

Authored \LaTeX 2_ε package to format theses according to the University of Virginia's guidelines

Secretary of Furman University's ACM chapter, 2006–2007

PROFESSIONAL MEMBERSHIPS

ACM	2006–present
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PUBLICATIONS

Journals

Joel Coffman and Alfred C. Weaver. “An Empirical Performance Evaluation of Relational Keyword Search Techniques.” Under review in *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, December 2011.

Refereed Conferences

Joel Coffman and Alfred C. Weaver. “What Are We Searching For? Analyzing User Objectives When Searching Relational Data.” In *WSCD '12: Proceedings of the 2nd Workshop on Web Search Click Data*, Seattle, WA, February 2012.

Joel Coffman and Alfred C. Weaver. “Learning to Rank Results in Relational Keyword Search.” In *CIKM '11: Proceedings of the 20th International Conference on Information and Knowledge Management*, pp. 1689–1698, Glasgow, Scotland, October 2011. (15% acceptance rate)

Joel Coffman and Alfred C. Weaver. “A Framework for Evaluating Database Keyword Search Strategies.” In *CIKM '10: Proceedings of the 19th International Conference on Information and Knowledge Management*, pp. 729–738, Toronto, Canada, October 2010. (13% acceptance rate)

Clint Smullen, **Joel Coffman**, and Sudhanva Gurumurthi. “Accelerating Enterprise Solid-State Disks with Non-Volatile Merge Caching.” In *IGCC '10: Proceedings of the 1st International Green Computing Conference*, pp. 203–214, Chicago, IL, August 2010. (30% acceptance rate)

Joel Coffman and Alfred C. Weaver. “Structured Data Retrieval using Cover Density Ranking.” In *KEYS '10: Proceedings of the 2nd International Workshop on Keyword Search on Structured Data*, pp. 1–6, Indianapolis, IN, June 2010.

Joel Coffman and Alfred C. Weaver. “Electronic Commerce Virtual Laboratory.” In *SIGCSE '10: Proceedings of the 41st SIGCSE Technical Symposium on Computer Science Education*, pp. 92–96, Milwaukee, WI, March 2010. (34% acceptance rate)

Joel Coffman, Christopher Healy, Frank Meuller, and David Whalley. “Generalizing Parameteric Timing Analysis.” In *LCTES '07: Proceedings of the 2007 ACM SIGPLAN/SIGBED Conference on Languages, Compilers, and Tools for Embedded Systems*, pp. 152–154, San Diego, CA, June 2007.

Technical Reports

Joel Coffman and Alfred C. Weaver. “An Empirical Performance Evaluation of Relational Keyword Search Systems.” University of Virginia, Department of Computer Science, Technical Report CS-2011-07, 2011.

Joel Coffman and Alfred C. Weaver. “Learning to Rank Results in Relational Keyword Search.” University of Virginia, Department of Computer Science, Technical Report CS-2011-06, 2011.

Joel Coffman and Alfred C. Weaver. “Crosspoint: A Web-based Collaboration System.” University of Virginia, Department of Computer Science, Technical Report CS-2009-15, 2009.

POSTERS AND PRESENTATIONS

“Learning to Rank in Databases.” November 2011.

“Crosspoint: A Web-based Collaboration System.” University of Virginia Engineering Research Symposium. April 2009.