

Henry Allen Feild

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Education

In progress. Ph.D Computer Science, University of Massachusetts Amherst, September 2007–Present
Advisor: James Allan

M.S. Computer Science, University of Massachusetts Amherst, February 2010
Masters Thesis: *Exploring Searcher Frustration*
Advisors: James Allan and Beverly Woolf

B.S. Computer Science, Minor in Mathematics, Loyola College in Maryland, May 2007
Overall GPA: 3.75
Graduated *magna cum laude*.

Experience

University of Massachusetts Amherst Fall 2007–Present
Research Assistant, Computer Science Department, Center for Intelligent Information Retrieval
Advisor: James Allan

Yahoo! October 2009–September 2011
Intern in the Query Intent group
Advisors: Rosie Jones and Emre Velipasaoglu
Explored models for detecting searcher frustration in Yahoo! search logs; designed and executed a study on Amazon Mechanical Turk of search assistance tools for difficult search tasks and frustrated searchers.

National Institute of Standards and Technology Summer 2007
Summer Intern in the Information Technology Laboratory, Information Access Division
Advisor: Ellen Voorhees
Explored a text retrieval test collection generation method.

Loyola College in Maryland Summer 2004–Spring 2007
Research Assistant, Computer Science Department
Advisor: David Binkley
Research centered on source code quality analysis.

Teaching

Lab instructor for Mt. Holyoke College CS101 & CS201 Fall 2010–Spring 2011
Grader for UMass CS197C: Programming in C++ Spring 2010
Grader for UMass CS646: Information Retrieval Fall 2009
Took PS797NN: Introduction to Scientific Teaching Spring 2009

Publications

- M. Cartright, H. Feild, and J. Allan. "Evidence Finding using a Collection of Books". To appear in the proceedings of the International Conference on Information and Knowledge Management BooksOnline workshop (BooksOnline'11), Glasgow, Scotland, UK, October 28, 2011.
- H. Feild, J. Allan, and J. Glatt. "CrowdLogging: Distributed, Private, and Anonymous Search Logging". In the Proceedings of the 34th International ACM Conference on Research and Development in Information Retrieval (SIGIR 2011), Beijing, China, July 24-28, 2011.
- H. Feild, R. Jones, R.C. Miller, R. Nayak, E.F. Churchill, E. Velipasaoglu. "Logging the Search Self-Efficacy of Amazon Mechanical Turkers". In the Proceedings of the SIGIR 2010 Workshop on Crowdsourcing for Search Evaluation, Geneva, Switzerland, July 24, 2010.
- H. Feild, J. Allan, and R. Jones. "Predicting Searcher Frustration". In the Proceedings of 33rd annual international ACM SIGIR conference on Research and development in information retrieval (SIGIR'10), Geneva, Switzerland, July 19–23, 2010.
- H. Feild and J. Allan. "Modeling Searcher Frustration". In the Proceedings of the Third Workshop on Human-Computer Interaction and Information Retrieval (HCIR'09), Washington D.C., October 23, 2009.
- D. Binkley, H. Feild, D. Lawrie, and M. Pighin. "Increasing diversity: Natural language measures for software fault prediction". *Journal of Systems and Software* 82.11 (2009):1793-1803.
- D. Lawrie, C. Morrell, H. Feild, and D. Binkley. "Effective identifier names for comprehension and memory". *Journal of Innovations in Systems and Software Engineering* 3.4 (2007):303-318.
- D. Lawrie, H. Feild, and D. Binkley. "Extracting meaning from abbreviated identifiers". 7th International Working Conference on Source Code Analysis and Manipulation, Paris, France, September 30–October 1 2007.
- D. Binkley, H. Feild, D. Lawrie, M. Pighin. "Software fault prediction using language processing". *Proceedings of Testing: Academic and Industrial Conference—Practice And Research Techniques*, Windsor, UK, September 12-14 2007.
- D. Lawrie, H. Feild, D. Binkley. "Quantifying identifier quality: an analysis of trends". *Journal of Empirical Software Engineering* 12.4 (2007):359-388.
- D. Lawrie, H. Feild, D. Binkley. "An empirical study of rules for well-formed identifiers". *Journal of Software Maintenance and Evolution: Research and Practice* 19.4 (2007):205-229.
- H. Feild, D. Binkley, and D. Lawrie. "An empirical comparison of techniques for extracting concept abbreviations from identifiers". *Proceedings of IASTED International Conference on Software Engineering and Applications (SEA 2006)*, Dallas, Texas, USA, November 2006.
- D. Lawrie, H. Feild, and D. Binkley. "Syntactic identifier conciseness and consistency". *Sixth IEEE International Workshop on Source Code Analysis and Manipulation*, Philadelphia, PA, USA, September 2006.
- D. Lawrie, C. Morrell, H. Feild, and D. Binkley. "What's in a name? A study of identifiers". 14th International Conference on Program Comprehension, Athens, Greece, June 2006, pp. 3-12.

D. Lawrie, H. Feild, and D. Binkley. “Leveraged quality assessment using information retrieval techniques”. 14th International Conference on Program Comprehension, Athens, Greece, June 2006, pp. 149-158.

Presentations

“CrowdLogging: Distributed, Private, and Anonymous Search Logging” at the 34th International ACM Conference on Research and Development in Information Retrieval (SIGIR '11), Beijing, China (2011).

“Predicting Searcher Frustration” at the 33rd annual international ACM SIGIR conference on Research and development in information retrieval (SIGIR'10), Geneva, Switzerland (2010).

“Logging the Search Self-Efficacy of Amazon Mechanical Turkers” at the Workshop on Crowdsourcing for Search Evaluation, July 24, 2010, Geneva, Switzerland (2010).

“Modeling Searcher Frustration” at the Third Workshop on Human-Computer Interaction and Information Retrieval (HCIR), Washington D.C. (2009).

“Modeling Searcher Frustration” (poster) at the 2009 Yahoo! Key Scientific Challenges Summit, Sunnyvale, California (2009).

“More for less: evaluating the ‘Minimal Test Collection’ algorithm for text retrieval” at the National Institute of Standards of Technology Summer Undergraduate Research Fellowship presentations, Gaithersburg, Maryland (2007).

“Software fault prediction using language processing” at Loyola College Undergraduate Research Colloquium, Baltimore, Maryland (2007).

“An empirical comparison of techniques for extracting concept abbreviations from identifiers” at the International Association of Science and Technology Development, Software Engineering and Applications conference (IASTED-SEA), Dallas, Texas (2006).

“An empirical comparison of techniques for extracting concept abbreviations from identifiers” at MASPLAS, New Brunswick, New Jersey (2006).

“Identifier splitting techniques” at Loyola College Undergraduate Research Colloquium, Baltimore, Maryland (2006).

“Leveraged quality assessment using information retrieval techniques” (poster) at the Mid-Atlantic Student Workshop Programming Languages And Systems (MASPLAS), Wilmington, Delaware (2005).

Honors and Awards

- Yahoo! Key Scientific Challenges Program award winner (2009).
- National Science Foundation Graduate Research Fellowship 2009 Honorable mention.
- National Science Foundation Graduate Research Fellowship 2007 Honorable mention.
- Received awards for presentations at the Loyola Undergraduate Research Colloquium (Second place 2006, First place 2007).
- Alpha Sigma Nu, Jesuit Honor Society member (Spring 2006–Present).
- Upsilon Pi Epsilon, Computing Sciences Honor Society member (Spring 2005–Present).

- Loyola College Dean's List (8/8 semesters, Fall 2003–Spring 2007).