

Qi Guo

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Emory University
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Research Interests

Information retrieval, user behavior modeling, machine learning

Education

Emory University 09/2007 - Present
Ph.D. Student in Computer Science (GPA: 3.9/4.0) Advisor: Eugene Agichtein
Main Courses:
Natural Language Processing, System Programming Fall 2007
Data Mining, Algorithms Spring 2008

Zhejiang University 09/2003 - 06/2007
B.S. in Software Engineering (GPA: 3.72/4.0; Major GPA: 3.87/4.0) *Summa Cum Laude*

University of Washington 06/2006 - 07/2006
Honor Certificate in International Outreach and Exchange Program

Work Experience

Intelligent Information Access Lab, Emory University Research Assistant
Atlanta, GA 09/2007 - Present
Investigated query intent prediction through implicit user feedback and explored user behavior modeling of online information-seeking for web search and library search.

Shopping.com/eBay Inc. Research Science Intern
Brisbane, CA 06/2008 - 08/2008

Microsoft Research Asia Research Intern
Beijing, China 01/2007 - 06/2007
Investigated object recognition techniques and developed software for boundary detection, image segmentation and digit recognition.

Microsoft Visual Perception Lab, Zhejiang University Research Assistant
Hangzhou, China 05/2006 - 12/2006
Investigated image-processing techniques and developed an automatic wood panel quality analyzer.

Haisheng-Ufida Software Co., Ltd. Engineer Intern
Xiamen, China Summer 2006
Co-designed a company-wide version control system and tested software with automatic tools.

Sealink Software Co., Ltd. Engineer Intern
Xiamen, China Summer 2005
Documented software requirement and tested software with automatic tools.

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Publications

- **Qi Guo**, Eugene Agichtein, Charles Clarke and Azin Ashkan. “Understanding ‘Abandoned’ Ads: Towards Personalized Commercial Intent Inference via Mouse Movement Analysis”(short paper), to appear in the 1st SIGIR Workshop on Information Retrieval in Advertising (IRA 2008).
- Azin Ashkan, Charles Clarke, Eugene Agichtein and **Qi Guo**. “Characterizing Query Intent From Ad Clickthrough Data”, to appear in the 1st SIGIR Workshop on Information Retrieval in Advertising (IRA 2008).
- **Qi Guo** and Eugene Agichtein. “Exploring Client-Side Instrumentation for Personalized Search Intent Inference”, to appear in the 6th AAAI Workshop on Intelligent Techniques for Web Personalization & Recommender Systems (ITWP 2008).
- **Qi Guo** and Eugene Agichtein. “Exploring Mouse Movements for Inferring Query Intent”(poster), to appear in the 31st Annual International ACM SIGIR Conference (SIGIR 2008).
- **Qi Guo**, Arthur Murphy, Selden Deemer and Eugene Agichtein. “Modeling User Interactions for Automatic Library Search Evaluation: Preliminary Results”(short paper), submitted to the Proceedings of the 2008 Joint Conference on Digital Libraries (JCDL 2008).

Project Experience

- Investigated web search query intent prediction through implicit user feedback including mouse move trajectories and clickthrough data. Designed and implemented client-side instrumentation to capture online user information-seeking behavior using Javascript, and analyzed patterns using sequential models.
- Investigated user behavior modeling of online information-seeking for digital library search evaluation by query log analysis.
- Investigated query difficulty prediction and query classification using clickthrough data.
- Designed and implemented Apriori algorithm using Java.
- Designed and implemented name entity classifiers using Java (Naive Bayes and HMM).
- Designed and implemented an information extractor for electronic medical records using GATE.
- Designed and implemented an image boundaries detector using local brightness, color, and texture cues in C/C++.
- Designed and implemented a wood panel quality analyzer using C#.
- Designed and implemented an online bookstore using HTML/JavaScript/SQL.

Honors

- SIGIR 2008 Student Travel Grant (\$1100) 2008
- Ph.D. Fellowship Award, Graduate School of Emory University 2008
- Excellent Graduate Award, Zhejiang University 2007
- International Exchange Program Scholarship, Zhejiang University 2006
- Excellent Student Scholarship, Zhejiang University, TWICE 2005 - 2006
- Excellent Student Award, Zhejiang University, TWICE 2005 - 2006
- Excellent Student Leader Award, Zhejiang University, THREE TIMES 2004 - 2006
- Excellent Social Service Award, Zhejiang University 2005
- Excellent Arts and Sports Performance Award, Zhejiang University 2004

Talks

- “Exploring Client-Side Instrumentation for Personalized Search Intent Inference”, ITWP 2008 (Chicago, IL).

Skills

- Languages: Java, C/C++, C#, Ruby, Javascript, HTML, MatLab, L^AT_EX, Perl
- Operating Systems: MS Windows, Solaris, Linux
- Miscellaneous: quick learning ability and excellent hands-on skills

References

Dr. Eugene Agichtein
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Mr. Benyu Zhang
Lead Researcher
Microsoft Research Asia
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