

Michael O. Lam

Ph.D Graduate Student
University of Maryland at College Park

Contact Info

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Career Goal

I want to work on interesting computer science problems with smart people.

Education

Ph.D, Computer Science, University of Maryland, 2012 (expected)

B.S, Computer Science, James Madison University, 2007

Minor in Mathematics and 15 credit hours in Technical Communication

Overall GPA: 4.0

Research Interests

- Programming Languages
- Software Engineering
- Medical Imaging

Skills

- Operating Systems: Linux, Mac OS X, Windows XP/Vista
- Languages: C, C++, C#, Java, Ruby, OCaml
- Systems: .NET, LaTeX/BibTex

Honors

- JMU Computer Science Department Scholarship, 2005 & 2006
- NSF Computer Science, Engineering and Mathematics Scholarship, 2004-2006
- Phi Kappa Phi
- Upsilon Pi Epsilon
- Pi Mu Epsilon

Relevant Experience

- Fall '07: CMSC 631 (Program Analysis) with Dr. Michael Hicks (UMD). Topics included lambda calculus, operational semantics, data flow analysis, and type systems.
- Spring '07: Undergraduate special topics course on compilers with Dr. Christopher Fox (JMU). Topics included grammars, finite automata, parsing, and code generation. Grade: A
- Fall '06 - Spring '07: Worked as student research assistant on an open source object-oriented framework for OpenGL programming in C++, with a focus on robust design patterns and support for large-scale (multiple monitor) visualization setups. The project advisor was Dr. David Bernstein (JMU). Website: <http://code.google.com/p/xor/>
- Summer '06: Worked as a student research assistant on an open source framework for medical image retrieval in C# with Dr. Daniela Raicu (DePaul). Topics included content-based image retrieval, co-occurrence image features, and Gabor image filters. Website: <http://brisc.sourceforge.net/>
- Fall '04 - Fall '06: Member of the James Madison University ACM programming contest team. Team won 1st place at regional contest in 2004.
- June '02 - February '03: Designed and coded a recursive descent parser for mathematical expressions in Java. Wrote a 40-page reference manual and presented in June '03 at a national symposium in Colorado Springs. Website: <http://www.freearrow.com/paradox/>

Publications

- M. Lam, T. Disney, D. Raicu, J. Furst, D. Channin. "BRISC: An Open Source Pulmonary Nodule Image Retrieval Framework." *Journal of Digital Imaging*, Volume 20, Supplement 1; 63-71. 2007.

Presentations

- "A Lookup and Reference Tool for Pulmonary Computed Tomography Nodules." Annual Meeting of the Society for Imaging Informatics in Medicine (SIIM), Providence, Rhode Island, June 2007.
- "Content-Based Image Retrieval for Pulmonary Computed Tomography Nodule Images." SPIE Medical Imaging Conference, San Diego, CA, February 2007.

References

Available upon request.