

Ryan Wisnesky

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Research Interests

- Program verification, particularly for systems-level code
- Type systems for expressing deep program correctness properties
- Query and functional programming languages

Education

- **4th year Ph.D. Candidate in Computer Science**
Harvard University
Advisor: Greg Morrisett
- **Master of Science (MS) in Computer Science**
Stanford University, 2006
- **Bachelor of Science (BS) in Mathematics & Computer Science**
Stanford University, 2006

Conference Papers

- Ryan Wisnesky, Mauricio Hernandez, and Lucian Popa. **Mapping Polymorphism**. Proceedings of the 13th International Conference on Database Theory (ICDT '10).
- Gregory Malecha, Greg Morrisett, Avraham Shinnar, and Ryan Wisnesky. **Toward a Verified Relational Database Management System**. Proceedings of The 37th ACM SIGPLAN - SIGACT Symposium on Principles of Programming Languages (POPL '10).
- Adam Chlipala, Gregory Malecha, Greg Morrisett, Avraham Shinnar, and Ryan Wisnesky. **Effective Interactive Proofs for Higher-order Imperative Programs**. Proceedings of the 14th ACM SIGPLAN International Conference on Functional Programming (ICFP '09).
- Stefan Dessloch, Mauricio A. Hernandez, Ryan Wisnesky, Ahmed Radwan, and Jindan Zhou. **Orchid: Integrating Schema Mapping and ETL**. Proceedings of the 24th IEEE International Conference on Data Engineering (ICDE '08).

Workshop Papers

- Ryan Wisnesky, Gregory Malecha, and Greg Morrisett. **Certified Web Services in Ynot**. Proceedings of the 5th International Workshop on Automated Specification and Verification of Web Systems (WWV '09).
- Huong Morris, Hui Liao, Sriram Padmanabhan, Sriram Srinivasan, Phay Lau, Jing Shan, and Ryan Wisnesky. **Bringing Business Objects into Extract-Transform-Load (ETL) Technology**. Proceedings of the 4th IEEE International Conference on e-Business Engineering (ICEBE '08).
- Huong Morris, Hui Liao, Sriram Padmanabhan, Sriram Srinivasan, Eugene Kawamoto, Phay Lau, Jing Shan, and Ryan Wisnesky. **Callisto: Mergers Without Pain**. Proceedings of the First International Workshop on Business Intelligence for the Real-Time Enterprise (BIRTE '06).

Technical Reports

- Ryan Wisnesky. **Mapping Dependence**. Harvard University Computer Science Technical Report no. TR-09-09. (2009). Available at <ftp://ftp.deas.harvard.edu/techreports/tr-09-09.pdf>
- Ryan Wisnesky. **The Inheritance Anomaly Revisited**. Unpublished manuscript. (2006). Available at cs.harvard.edu/~ryan/thesisx.pdf
- Ryan Wisnesky. **Evaluating Scheduling Algorithms on Distributed Computational Grids**. Unpublished manuscript. (2006). Available at <http://cs.harvard.edu/~ryan/grid.pdf>
- Huong Morris, Hui Liao, Sriram Padmanabhan, Sriram Srinivasan, Phay Lau, Jing Shan, and Ryan Wisnesky. **Bringing Business Objects into Extract-Transform-Load (ETL) Technology (Preliminary Report)**. Unpublished Manuscript. (2006). Available at cs.harvard.edu/~ryan/Callisto.pdf

Posters

- Ryan Wisnesky. **Schema Mapping Polymorphism**. Poster Session of the 13th ACM SIGPLAN International Conference on Functional programming (ICFP '08).

Talks

- **Certified Web Services in Ynot**. The 5th International Workshop on Automated Specification and Verification of Web Systems (WWV 09). Johannes Kepler University, Linz, Austria. July 17, 2009.

Teaching

- **Teaching Fellow**
Harvard University CS 51: Abstraction and Design in Computer Programming
Spring 2008. Cambridge, MA
- **Teaching Fellow**
Stanford University CS 242: Programming Languages
Fall 2005. Stanford, CA

Summer Schools

- **Summer School on Logic and Theorem Proving in Programming Languages.**
University of Oregon, Eugene. July 22-30, 2008.

Employment

- **Research Assistant**
Harvard University
Fall 2007 - present. Cambridge, MA, 02138
- **Technical Intern**
Peerium, Inc
Fall 2007 - present. Cambridge, MA, 02138
- **Research Intern**
IBM Research Almaden
Clio group, Information Integration dept
Summer 2007. San Jose, CA
- **Research Intern**
IBM Research Almaden
Clio group, Information Integration dept
Summer 2006. San Jose, CA
- **Teaching Fellow**
Stanford University CS 242: Programming Languages
Fall 2005. Stanford, CA
- **Technical Intern**
IBM Software Group, Extreme Blue program
Summer 2005. San Jose, CA
- **Technical Intern**
IBM Printing Systems, Speed Team program
Summer 2004. Boulder, CO

- **GUI Consultant**
Bosch Corporation
Spring 2004. Palo Alto, CA
- **Technical Intern**
IBM Printing Systems, Speed Team program
Summer 2003. Boulder, CO
- **Technical Intern**
IBM Printing Systems
Summer 2002. Boulder, CO
- **Quality Assurance Engineer**
eConvergent, Inc
2000-2001. Longmont, CO

Academic Honors

- Harvard Graduate Prize Fellow, 2006-2011
- IBM/GEM Consortium Fellow, 2006
- National Merit Scholar, 2001

Languages

- Experience with C, Java, Haskell, Coq, and SQL
- Familiarity with C++, ML, and Scheme