Westley Weimer

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Education

- **University of California, Berkeley**. M.S. in Computer Science, Spring 2003. Fifth year Ph.D. student in Computer Science (expected Ph.D. in May 2005). Passed the preliminary oral exam, qualifying exam and coursework requirements. GPA: 3.9. Sun Microsystems Fellowship. Received the Tony Leong Lim Pre-Doctoral Prize.
- **Cornell University**. B.A. in Computer Science and Mathematics, Spring 1999. GPA: 4.0. Graduated with Honors, Dean's List. Given the "Dean's Scholar" and "National Scholar" awards.

Publications

Three indicative publications are available at http://www.cs.berkeley.edu/~weimer/resume/ .

- **Mining Temporal Specifications for Error Detection**.
  Westley Weimer, George Necula. In Proceedings of the 11th International Conference on Tools and Algorithms For The Construction And Analysis Of Systems (TACAS '05), Edinburg, U.K., April 2005.

- **Finding and Preventing Run-Time Error Handling Mistakes**. [ps | pdf | bibtex]
  Westley Weimer, George Necula. In Proceedings of the 19th Annual ACM Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA '04), pp 419-431, Vancouver, British Columbia, Canada, October 2004.

- **CCured: Type-Safe Retrofitting of Legacy Software**. [ps | pdf] (CCured Project)
  George C. Necula, Jeremy Condit, Matthew Harren, Scott McPeak, Westley Weimer. To appear in ACM Transactions on Programming Languages and Systems (TOPLAS), 2005.

- **CCured In The Real World**. [ps | bibtex] (CCured Project)
  Jeremy Condit, Matthew Harren, George C. Necula, Scott McPeak, Westley Weimer. In Proceedings of the Programming Language Design and Implementation (PLDI '03), pp. 232-244, California, June 2003.

- **Speeding Up Dataflow Analysis Using Flow-Insensitive Pointer Analysis**. [pdf | bibtex] (ESP Project)
  Stephen Adams, Thomas Ball, Manuvir Das, Sorin Lerner, Sriram K. Rajamani, Mark Seigle, Westley Weimer. Ninth International Static Analysis Symposium (SAS '02). LNCS 2477, pp. 230-246. Madrid, Spain. September 2002.

- **Temporal-Safety Proofs for Systems Code**. [ps | pdf | bibtex | ppt] (Blast Project)
  Thomas A. Henzinger, Ranjit Jhala, Rupak Majumdar, George Necula, Westley Weimer, Gregoire Sutre. 14th Conference on Computer-Aided Verification (CAV '02). Copenhagen, Denmark. July 2002.

- **Cil: An Infrastructure for C Progam Analysis and Transformation**. [ps | pdf | bibtex | ppt] (Cil Project)
  George C. Necula, Scott McPeak, S. P. Rahul, Westley Weimer. International Conference on Compiler Construction (CC '02), pp. 213-228, Grenoble, France. April 2002.

- **CCured: Type-Safe Retrofitting of Legacy Code**. [ps | pdf | bibtex] (CCured Project)
  George C. Necula, Scott McPeak, Westley Weimer. In Proceedings of the 29th ACM Symposium on Principles of Programming Languages (POPL '02), pp. 128-139, Oregon, January 2002.

- **OceanStore: An Architecture for Global-Scale Persistent Storage**. [ps | pdf | bibtex] (OceanStore Project)
  John Kubiatowicz, David Bindel, Yan Chen, Steven Czerwinski, Patrick Eaton, Dennis Geels, Ramakrishna Gummadi, Sean Rhea, Hakim Weatherspoon, Westley Weimer, Chris Wells, and Ben Zhao. Ninth International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS '00). Cambridge,

MA. November 2000.

Teaching Experience

- Programming Languages and Compilers (Computer Science 164), Berkeley, Spring 2001. Tied for highest overall teaching effectiveness in 9 years (or here). Anonymous feedback on a recent Software Engineering guest lecture: "grad student lecture on exceptions was both informative and entertaining. His style of lecturing is not boring."

Academic Projects

- At various points I have been associated with the Open Source Quality Project, the Center for Hybrid and Embedded Software Systems, the Berkeley-Stanford Recovery-Oriented Computing Project and the OceanStore Project.

Work Experience

- **Microsoft Research**. I spent a summer at with the SLAM Project at Microsoft Research working on scaling counterexample-driven abstraction refinement to realistic Windows NT device drivers.
- **Sun Microsystems Laboratories**. I interned for a summer at Sun Labs developing a static analysis to determine at which times events could occur in a hybrid event-driven, cycle-accurate simulator.

References

George C. Necula (thesis advisor)
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