

# Amittai F. Aviram

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  - **Citizenship:** USA.
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## Education

- Yale University: PhD, Computer Science, expected 2012.
    - Dissertation topic: A Deterministic OpenMP.
    - Advisor: [Bryan Ford](#)
    - Area: Systems.
    - MS: May, 2008.
  - Columbia University: BS, Computer Science, May 2006. (See Honors below.) GPA: **3.86**
  - University of South Carolina: Coursework in mathematics and computer science, June 2003 – August 2004. GPA: **4.0**.
  - Yale University: Ph.D., English Language and Literature, December, 1984. (Yale has no GPA.) aa
  - Columbia University: B.A., English and Comparative Literature, *Magna cum Laude*, May, 1978. GPA: **3.86**
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## Computer Science Publications and Talks

Please see [my research home page](#) for downloadable copies and other information.

- A. Aviram and B. Ford. Deterministic OpenMP for Race-Free Parallelism. [HotPar '11](#).
  - A. Aviram, S. Hu, S. Weng, B. Ford. Efficient System-Enforced Deterministic Parallelism. [OSDI '10](#). **Jay Lepreau Best Paper Award**.
  - A. Aviram, S. Hu, B. Ford, R. Gummadi. Determinating Timing Channels in Compute Clouds. [CCSW 2010](#).
  - A. Aviram. DOMP: Deterministic OpenMP. [OSDI '10 Poster Session](#).
  - A. Aviram. DOMP: Deterministic OpenMP. [Vancouver Systems Colloquium](#), University of British Columbia, October 7, 2010.
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## Honors

- New York City Turing Fellows 2011 finalist.
  - Russell C. Mills Award in Computer Science, Columbia University, 2006.
  - Columbia University School of General Studies Honor Society, inducted 2006.
  - Fulbright Senior Scholarship, Bamberg, Germany, 2000-2001.
  - Mellon Postdoctoral Fellowship, Humanities Center, Cornell University, 1986-87.
  - Prize Teaching Fellowship, Yale University, 1983-84.
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## Software Development Experience

- Google, Inc. New York, NY. May 2011 – September 2011 (summer internship).
  - Project: Tool for reporting data on high-latency operations in the distributed storage infrastructure
  - Concept, design, documentation, and coding (C++).
- Google, Inc. New York, NY. May 2010 – August 2010 (summer internship).
  - Project: Complete integration testing framework for Floodlight advertisement tracking server, inserted into

- automatic continuous build system. (Python, Google development tools)
- Parallelization of XFA integration test setup. (Python, Google development tools)
- Ellington Management Group, LLC. Old Greenwich, CT. May 2007 – August 2007 (summer internship).
  - Project: Web services infrastructure. Parsing and compilation of proprietary-language interface descriptions into C# types. Runtime serialization, deserialization, and synchronous and asynchronous message handling. (C#)
- Microsoft Research. Redmond, WA, May 2006 – August 2006 (summer internship).
  - Project: Inferring a context-free grammar from the object code of a hand-coded parser, using Microsoft's new Phoenix compiler framework. (C++.NET)
- Two Toads, Inc. Columbia, SC, August 2002-June 2003.
  - Online sales and tech support tracking tools. (LAMP)
  - Instant text message filtering system. (C++ DLL)
- Hunter Stone, Inc. Columbia, SC, June-July 2002.
  - Specifications for tool to extend Visual Studio .NET IDE.
- IT for People. Bamberg, Germany, October 2000-June 2001.
  - Specifications for database-driven online website editing tool. Implementation of complex GUI for Active-X control. (JavaScript, ASP)

## Academic and Other Projects

- Yale University. New Haven, CT, September 2006 – Present.
  - Research project (current): System-level runtime enforcement of parallel determinism in multithreaded applications. (C, Unix systems)
  - Summer project: Revision of PubNet Web application code base and addition of features. (Perl)
  - Course project: Retrieval of background information for scientific papers in XML. (Python)
  - Course project: Semantic clustering of Web search results. (Python)
  - Course project: Automatic species counterpoint using Haskell. (Haskell)
- Columbia University. New York, NY, January 2005 – May 2006.
  - Research project: Computational representation of Arabic morphology. Contributions to project specifications and implementation. (Perl)
  - Programming Languages and Translators course project: Translator from Quantum Computing Assembly Language (QASM) to Quantum Computing Operations Language (QPOL). [Website](#). (C)
- OPERA at USC (volunteer). University of South Carolina, Columbia, SC, May 2001-July 2002.
  - Director's Helper: online applicant and finance tracking tool with database. (Perl)
  - Online auditions scheduling tool. (LAMP)
  - Webmastering (all-new website).
- Independent projects
  - Quizmaker: online multiple-choice testing and grading software. Developed and used in teaching, University of South Carolina, 2001-2002. (C, CGI, MySQL)
  - JavaScript German Flash Cards: representation of German verb inflectional system in rules and algorithms. Developed 2001.

## Computer Skills

- **Programming Languages:** C, C++, C#, Java, Perl, Python, PHP, JavaScript, ML, Haskell, SQL, LaTeX, R.
  - **Technologies:** Linux, Windows XP, MySQL, MS Visual Studio, Maple, ASP.
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## Human Languages

Spanish, French, Italian, German, Latin, Greek, Hebrew, Old English.

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## Positions Held

- Associate Professor, English and Comparative Literature, University of South Carolina, 1992-2004.
  - Comparative Literature Program Core Faculty.
  - Linguistics Program Consulting Faculty.
  - Creative Writing Program.

- Assistant Professor, 1984-1992. On leave, 1986-1988; fall 1994.
  - Medical Research Writer (on leave from USC), Pfizer, Inc., New York, New York, 1987-1988.
  - Visiting Assistant Professor and Mellon Fellow (on leave from USC), Cornell University, 1986-1987.
  - Instructor and Prize Teaching Fellow, Yale University, 1983-1984; Teaching Fellow, 1981-83.
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## **Other Activities**

Poetry, viola (chamber music), music composition, ballet and modern dance, fitness, swimming, long-distance running.

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## **References**

Please contact amittai dot aviram at yale dot edu for current references.