

Leo A. Meyerovich

CONTACT	lmeyerov@eecs.berkeley.edu	http://www.eecs.berkeley.edu/~lmeyerov	415.533.5329
INTERESTS	Programming languages & analysis, rich web applications, security, parallelism, statistical methods		
EDUCATION	UC Berkeley , Berkeley, CA Ph.D. in Computer Science, Expected 2012		
	Brown University , Providence, RI Sc.B. in Computer Science w/Honors, 2007		
SELECTED AWARDS AND HONOURS	OOPSLA Best Student Paper Award, 2009 National Science Foundation Graduate Fellowship (NSF GRFP), 2007 UC Berkeley First Year Fellowship, 2007 Computer Research Association Outstanding Undergraduate Honorable Mention (CRA), 2007 Karen. T. Romer Undergraduate Teaching and Research Award (UTRA), 2004		
PUBLICATIONS	Best student paper award: Leo A. Meyerovich, Arjun Guha, Jacob Baskin, Gregory H. Cooper, Michael Greenberg, Aleks Bromeld, Shriram Krishnamurthi. Flapjax: A Programming Language for Ajax Applications . In <i>Proceedings of the 24th ACM SIGPLAN conference on Object-oriented programming systems languages and applications (OOPSLA'09)</i> , Orlando, FL. October 2009. Leo Meyerovich. Rethinking Browser Performance . <i>USENIX ;login.</i> , August 2009. Chris Jones, Rose Liu, Leo Meyerovich, Krste Asanovic, Rastislav Bodik. Parallelizing the Web Browser . In <i>Proceedings of the 1st USENIX Workshop on Hot Topics in Parallelism (HotPar'09)</i> , Berkeley, CA. March 2009. Colin Gordon, Leo Meyerovich, Joel Weinberger, and Shriram Krishnamurthi. Composition with Consistent Updates for Abstract State Machines . In <i>Proceedings of 14th International Workshop on Abstract State Machines (ASM'07)</i> , Grimstad, Norway. June 2007 Kathi Fisler, Shriram Krishnamurthi, Leo A. Meyerovich, Michael Carl Tschantz. Verification and Change-Impact Analysis of Access-Control Policies . In <i>Proceedings of the 27th International Conference on Software Engineering (ICSE'05)</i> , St. Louis, USA. May 2005		
OTHER	* ConScript : Browser and scripting support for end-to-end web security. With Ben Livshits ('09). <i>Microsoft Research</i> . * Fast, Parallel Webpage Layout : Optimization of CSS. With Ras Bodik ('09). * Fine-Grained Object Sharing with Views : Primitives for securely composing mashups. With Adrienne P. Felt and Mark S. Miller ('09). * Mining Interaction Models of Web Applications : a blackbox approach. With Raluca Sauciu ('09). FIRE : Mixing Functional and Imperative Reactive Programming. With Roger Webster ('07). <i>Adobe Adv. Tech. Lab</i> . Substructural Type-Feedback ('07). Power Law User Activity ('06). Soundness and Completeness of Margrave with respect to a subset of XACML . With Michael Tschantz, Michael Greenberg, and Casey Marks ('05). Flash Bezier curve and tween APIs ('99). * <i>in submission or preparation</i>		
INVITED PRESENTATIONS	Microsoft Research A Parallel Browser, Redmond, 2009 Intel Developer Forum (poster) A Parallel Browser, San Francisco, 2009 Adobe Fast Webpage Layout, San Francisco, 2009 Mozilla (all-hands) It's the End of the Web as We Know It (and I Feel Fine), Mountain View, 2009 CodeCon A Parallel Browser, San Francisco, 2009 Samsung Research Parallel Webpage Layout, San Jose, 2009 Intel Languages Workshop Update on the Parallel Browser Language, Santa Clara, 2008 Mozilla (all-hands) Implicitly Parallel Browser Scripting, all-hands talk, Mountain View, 2008		

BayFP Flapjax & FIRE, San Francisco, 2008

Adobe Functional Reactive Web Programming in Flapjax, Flex team talk, San Francisco, 2006

The parallel web browser, Flapjax, and Margrave projects have often been presented as invited keynotes (STMCS'08, SBLP '08), talks (Microsoft Parallel Applications Workshop 2009, Intel Browser Performance Workshop '08, JAOO'07, Microsoft Lang.NET Symposium '06), etc. by Prof. Ras Bodik or Prof. Shriram Krishnamurthi.

SERVICE

Subreviewer APLAS 2008, ASPLOS 2008, PPDP 2007

RESEARCH LABS

Microsoft Research, Redmond Intern

Summer 2009

Enabled web developers to securely control JavaScript running in their pages. Extended Internet Explorer's JavaScript engine with new constructs, removed dangerous ones, isolated a JavaScript subset for specifying policies, and developed an integrity analysis for policies written in it.

Adobe Systems, Inc. Advanced Technology Labs Research Intern Summer, winter of 2007

Extended ActionScript with dynamic dataflow constructs for mixing functional and imperative reactivity.

Brown PLT Research Assistant

Summer of 2006

Creation and optimization of Flapjax, a language for AJAX applications featuring functional reactive constructs in JavaScript.

Brown PLT Research Assistant

Summer 2004

Creation and optimization of a security policy analysis tool Margrave. It supports interactive queries and a change impact analysis for XACML policies.

INDUSTRY

Macromedia Flex 2 Development Intern

Summer of 2005

Impact analysis of ActionScript 3 language design changes; Flex framework migration and debugging.

95.5 WBRU Intern then Web Dept. Head and Executive Board Member

2003 – 2005

Extensive and diverse roles in the operation of a top regional multi-million dollar commercial radio station.

Intelgamer, LLP Co-founder

1999 – 2002

Organized national subteam of 5 in creation of CMS products for game companies and communities.

Web, Flash, and Accounting Independent Contracting

1998 – 2003

TEACHING ASSISTANT

Berkeley

Compilers (best course ratings in about a decade)

Brown

System Security, Models of Computation, Discrete Math, Programming Language Theory

GRADUATE
COURSEWORK

Berkeley

Highly Productive Parallel Languages, Parallel and Distributed Algorithms, Web Security, Advanced Operating Systems and Databases, Programming Systems (recent topics), Programming Languages (denotational semantics), Statistical Learning Theory, Applications of Parallel Computers

Brown

Programming Language Semantics, Models of Security, Software Verification, Statistical Natural Language Processing