

AARON TURON

CURRICULUM VITAE

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CITIZENSHIP	USA	
RESEARCH INTERESTS	Concurrency and parallelism; program logic and verification; language and library design; semantics	
CURRENT POSITION	Postdoctoral researcher Max Planck Institute for Software Systems (MPI-SWS) Supervised by Derek Dreyer	2013 –
EDUCATION	Northeastern University , Boston, MA PhD in Computer Science, <i>May 2013</i> Thesis: <i>Understanding and expressing scalable concurrency</i> Advisor: Mitchell Wand Committee: Amal Ahmed, Doug Lea, Claudio Russo, Olin Shivers	2007 – 2013
	University of Chicago , Chicago, IL BA with honors in Computer Science, <i>June 2007</i> Thesis: <i>Metaprogramming with traits</i> Advisor: John Reppy	2003 – 2007
INTERNSHIPS & TRAINING	Research internships ◊ Microsoft Research (Cambridge, UK) Supervisor: Claudio Russo	2010
	PhD summer schools ◊ UPMARC Multicore Computing Summer School (Stockholm, Sweden) ◊ Microsoft Research Summer School (Cambridge, UK) ◊ Logic and theorem proving in programming languages (Oregon, USA)	2011 2009 2008
AWARDS	Northeastern CCIS Outstanding Teaching Award Northeastern CCIS Outstanding Service Award Microsoft PhD Scholarship Northeastern University Fellowship NSF Graduate Research Fellowship: honorable mention	2012 2011 2008 – 2012 2007 – 2013 2007
SERVICE	Program committees: POPL 2014, PADL 2014, LaME 2013 (co-chair) Reviewer for: BPR, CONCUR, ECOOP, ESOP, FAOC, FMCAD, FOSSACS, ICFP, IEEE Software, LICS, LMCS, MFCS, OOPSLA, POPL, SAT, TACAS, TOPLAS, TPHOLS, VMCAI, VSTTE Organizer , Northeastern Programming Languages Seminar Organizer , Northeastern Programming Languages Seminar, Jr.	2009 – 2012 2007 – 2009

PUBLICATIONS (CONFERENCES)	<p>Freeze after writing: quasi-deterministic parallel programming with LVars Lindsey Kuper, Aaron Turon, Neelakantan R. Krishnaswami, Ryan R. Newton <i>ACM Symposium on Principles of Programming Languages</i></p> <p>Unifying refinement and Hoare-style reasoning in a logic for higher-order concurrency Aaron Turon, Derek Dreyer, Lars Birkedal <i>ACM SIGPLAN International Conference on Functional Programming</i></p> <p>Logical relations for fine-grained concurrency Aaron Turon, Jacob Thamsborg, Amal Ahmed, Lars Birkedal, Derek Dreyer <i>ACM Symposium on Principles of Programming Languages</i></p> <p>Superficially substructural types Neelakantan R. Krishnaswami, Aaron Turon, Derek Dreyer, Deepak Garg <i>ACM SIGPLAN International Conference on Functional Programming</i></p> <p>Reagents: expressing and composing fine-grained concurrency Aaron Turon <i>ACM SIGPLAN Conference on Programming Language Design and Implementation</i></p> <p>Scalable join patterns Aaron Turon, Claudio Russo <i>ACM International Conference on Object Oriented Programming, Systems, Languages and Applications</i></p> <p>Modular rollback through control logging Olin Shivers, Aaron Turon <i>ACM SIGPLAN International Conference on Functional Programming</i></p> <p>A resource analysis of the pi-calculus Aaron Turon, Mitchell Wand <i>Conference on the Mathematical Foundations of Programming Semantics</i></p> <p>A separation logic for refining concurrent objects Aaron Turon, Mitchell Wand <i>ACM Symposium on Principles of Programming Languages</i></p> <p>All-Termination(T) Panagiotis Manolios, Aaron Turon <i>International Conference on Tools and Algorithms for the Construction and Analysis of Systems</i></p> <p>Metaprogramming with traits John Reppy, Aaron Turon <i>European Conference on Object-Oriented Programming</i></p>	<p><i>POPL 2014</i></p> <p><i>ICFP 2013</i></p> <p><i>POPL 2013</i></p> <p><i>ICFP 2012</i></p> <p><i>PLDI 2012</i></p> <p><i>OOPSLA 2011</i></p> <p><i>ICFP 2011</i></p> <p><i>MFPS 2011</i></p> <p><i>POPL 2011</i></p> <p><i>TACAS 2009</i></p> <p><i>ECOOP 2007</i></p>
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PUBLICATIONS (JOURNALS, WORKSHOPS)	Regular expression derivatives reexamined Scott Owens, John Reppy, Aaron Turon <i>Journal of Functional Programming</i> , vol 19, issue 02, pp. 173-190	<i>JFP</i> 2009
	A foundation for trait-based metaprogramming John Reppy, Aaron Turon <i>International Workshop on Foundations and Developments of Object-Oriented Languages</i>	<i>FOOL/WOOD</i> 2006
THESES	Understanding and expressing scalable concurrency <i>PhD dissertation</i>	<i>April</i> 2013
	Metaprogramming with traits <i>Honors thesis</i>	<i>May</i> 2007
TEACHING EXPERIENCE	Instructor of record , <i>Program Design Paradigms</i> Masters-level course on software design and engineering	2011
	Teaching assistant , <i>Intensive Principles of Programming Languages</i> PhD-level course on programming language theory	2009
	Teaching assistant , <i>Fundamentals of Computer Science</i> Undergraduate course on programming	2007
	Teaching assistant , <i>Introduction to Computer Systems</i> Undergraduate course on computer systems	2005
INDUSTRIAL EXPERIENCE	Consultant , Pace Software, Inc.	2006 – 2007
	Programmer , University of Chicago, CS Dept.	2005 – 2007
	Lead Programmer , Pace Software, Inc.	1998 – 2005

REFERENCES

Dr. Derek Dreyer (current supervisor)

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