

Matthew Flatt

Professional Experience

14-	Professor	University of Utah
06-14	Associate Professor	University of Utah
00-06	Assistant Professor	University of Utah
99-00	Research Assistant Professor	University of Utah
19-	Director, Master of Software Development program	University of Utah
22-23	Visiting Research Professor	National University of Singapore
14	Visiting Researcher	Microsoft Research, Cambridge, UK
06-07	Visiting Researcher	Institute of Software, Chinese Academy of Sciences
94-99	Teaching and Research Assistant	Rice University
93-94	Programmer	Automation Programming, Inc.
89-93	Programmer	Carnegie Mellon University

Education

99	Ph.D. Computer Science Dissertation: <i>Programming Languages for Reusable Software Components</i> Advisor: Matthias Felleisen	Rice University
98	M.S. Computer Science	Rice University
93	B.S. Math and Computer Science, B.S. Physics	Carnegie Mellon University

Publications

Books

- [1] 18 FELLEISEN, M., R.B. FINDLER, M. FLATT, AND S. KRISHNAMURTHI. *How to Design Programs*, second edition, MIT Press, 765 pages.
- [2] 10 SPERBER, M., R.K. DYBVG, M. FLATT, AND A. VAN STRAATEN, EDITORS. Revised⁶ Report on the Algorithmic Language Scheme. Cambridge University Press, 301 pages.
- [3] 09 FELLEISEN, M., R.B. FINDLER, AND M. FLATT. *Semantics Engineering with PLT Redex*, MIT Press, 528 pages.
- [4] 01 FELLEISEN, M., R.B. FINDLER, M. FLATT, AND S. KRISHNAMURTHI. *How to Design Programs*, MIT Press, 693 pages.

Journal Publications and Book Chapters

- [5] 21 MUSSLICK, S., A. CHERKAEV, B. DRAUT, A. BUTT, P. DARRAGH, V. SRIKUMAR, M. FLATT, AND J.D. COHEN. SweetPea: A Standard Language for Factorial Experimental Design. *Behavioral Research Methods, Instruments, and Computers*, 25 pages.

- [6] 18 FLORENCE, S., B. FETSCHER, M. FLATT, W.H. TEMPS, V. ST-AMOUR, T. KIGURADZE, D.P. WEST, C. NIZNIK, P. YARNOLD, R.B. FINDLER, AND S. BELKNAP. POP-PL: A Patient-Oriented Prescription Programming Language. *Transactions on Programming Languages and Systems*, 40(3), pages 10:1–10:37.
- [7] 18 FELLEISEN, M., R.B. FINDLER, M. FLATT, S. KRISHNAMURTHI, E. BARZILAY, J. MCCARTHY, AND S. TOBIN-HOCHSTADT. A Programmable Programming Language. *Communications of the ACM*, 61(3), pages 62–71.
- [8] 13 KLEIN, C., M. FLATT, AND R.B. FINDLER. The Racket Virtual Machine and Randomized Testing. *Higher Order and Symbolic Programming*.
- [9] 12 FLATT, M., R. CULPEPPER, D. DARAI, AND R.B. FINDLER. Macros that Work Together: Compile-Time Bindings, Partial Expansion, and Definition Contexts. *Journal of Functional Programming*, 22(2), pages 181–216.
- [10] 06 FINDLER, R.B. AND M. FLATT. Slideshow: Functional Presentations. *Journal of Functional Programming*, 16(4-5), pages 583–619.
- [11] 04 FELLEISEN, M., R.B. FINDLER, M. FLATT, AND S. KRISHNAMURTHI. The Teach-Scheme! Project: Computing and Programming for Every Student. *Computer Science Education*, 14(1), pages 55–77.
- [12] 04 FELLEISEN, M., R.B. FINDLER, M. FLATT, AND S. KRISHNAMURTHI. The Structure and Interpretation of the Computer Science Curriculum. *Journal of Functional Programming*, 14(4), pages 365–378.
- [13] 02 FINDLER, R.B., J. CLEMENTS, C. FLANAGAN, M. FLATT, S. KRISHNAMURTHI, P. STECKLER, AND M. FELLEISEN. DrScheme: A Programming Environment for Scheme. *Journal of Functional Programming*, 12(2), pages 159–182.
- [14] 99 FLATT, M., S. KRISHNAMURTHI, AND M. FELLEISEN. A Programmer’s Reduction Semantics for Classes and Mixins. In *Formal Syntax and Semantics of Java*, LNCS volume 1523, Springer-Verlag, pages 241–269.
- [15] 93 COHEN, J.D., B. MACWHINNEY, M. FLATT, AND J. PROVOST. PsyScope: A New Graphic Interactive Environment For Designing Psychology Experiments. *Behavioral Research Methods, Instruments, and Computers*, 25(2), pages 257–271.

Conference Publications

- [16] 27 KRISHNAMURTHI, S. AND M. FLATT. A Preliminary Study of Type-Error Ablation and AI Coding Agents. In *Proc. International Conference on the Art, Science, and Engineering of Programming* (⟨Programming⟩).
- [17] 26 FLATT, O., R.B. FINDER, AND M. FLATT. Animated Pictures for Slide Presentations: From the Shallows to the Depths of a Domain-Specific Language (Functional Pearl). In *Proc. ACM International Conference on Functional Programming* (ICFP). Artifact accepted.
- [18] 24 LEE, Y., K. GOPINATHAN, Z. YANG, M. FLATT, AND I. SERGEY. DSLs in Racket: You Want It How, Now?. In *Proc. Conference on Software Engineering Languages* (SLE).
- [19] 23 FLATT, M., T. ALLRED, N. ANGLE, S. DE GABRIELLE, R.B. FINDLER, J. FIRTH, K. GOPINATHAN, B. GREENMAN, S. KASIVAJHULA, A. KNAUTH, J. MCCARTHY, S. PHILLIPS, S. PORCHAROENWASE, J.A. SØGAARD, S. TOBIN-HOCHSTADT. Rhombus: A New Spin on Macros without All the Parentheses. In *Proc. ACM Conference on Object-Oriented Programming Systems, Languages, and Applications* (OOPSLA). Artifact accepted.
- [20] 21 TOROSYAN, S., J. ZEPPIERI, AND M. FLATT. Runtime and Compiler Support for HAMTs. In *Proc. Dynamic Languages Symposium* (DLS).

- [21] 20 FLATT, M. AND R.K. DYBVIG. Compiler and Runtime Support for Continuation Marks. In *Proc. ACM Conference on Programming Language Design and Implementation (PLDI)*. Artifact accepted.
- [22] 19 FLATT, M., C. DERICI, R.K. DYBVIG, A.W. KEEP, G.E. MASSACCESI, S. SPALL, S. TOBIN-HOCHSTADT, AND J. ZEPPIERI. Rebuilding Racket on Chez Scheme (Experience Report). In *Proc. ACM International Conference on Functional Programming (ICFP)*. Artifact accepted.
- [23] 19 CULPEPPER, R., M. FELLEISEN, M. FLATT, AND S. KRISHNAMURTHI. From Macros to DSLs: The Evolution of Racket. In *Proc. Summit on Advances in Programming Languages (SNAPL)*.
- [24] 18 HATCH, W.G. AND M. FLATT. Rash: From Reckless Interactions to Reliable Programs. In *Proc. Conference on Generative Programming: Concepts and Experiences (GPCE)*.
- [25] 17 LI, X. AND M.FLATT. Debugging with Domain-Specific Events via Macros. In *Proc. Conference on Software Engineering Languages (SLE)*.
- [26] 17 TOBIN-HOCHSTADT, S., M. FELLEISEN, R.B. FINDLER, M. FLATT, B. GREENMAN, A.M. KENT, V. ST-AMOUR, T.S. STRICKLAND, AND A. TAKIKAWA. Migratory Typing: Ten Years Later. In *Proc. Summit on Advances in Programming Languages (SNAPL)*.
- [27] 16 MOORE, S., C. DIMOULAS, R.B. FINDLER, M. FLATT, AND S. CHONG. Extensible Access Control with Authorization Contracts. In *Proc. ACM Conference on Object-Oriented Programming Systems, Languages, and Applications (OOPSLA)*.
- [28] 16 HASU, T., AND M.FLATT. Source-to-Source Compilation via Submodules. In *Proc. European Lisp Symposium (ELS)*.
- [29] 16 FLATT, M. Binding as Sets of Scopes. In *Proc. ACM Symposium on Principles of Programming Languages (POPL)*. Artifact accepted.
- [30] 15 FLORENCE, S., B. FETSCHER, M. FLATT, W.H. TEMPS, T. KIGURADZE, D.P. WEST, C. NIZNIK, P.R. YARNOLD, R.B. FINDLER, AND S.M. BELKNAP. POP-PL: A Patient-Oriented Prescription Programming Language. In *Proc. Conference on Generative Programming: Concepts and Experiences (GPCE)*.
- [31] 15 TAKIKAWA, A., D. FELTEY, E. DEAN, R.B. FINDLER, M. FLATT, S. TOBIN-HOCHSTADT, AND M. FELLEISEN. Towards Practical Gradual Typing. In *Proc. European Conference on Object-Oriented Programming (ECOOP)*.
- [32] 15 FELLEISEN, M., R.B. FINDLER, M. FLATT, S. KRISHNAMURTHI, J. MCCARTHY, S. TOBIN-HOCHSTADT. The Racket Manifesto. In *Proc. Summit on Advances in Programming Languages (SNAPL)*.
- [33] 13 TEW, K., J. SWAINE, M. FLATT, R.B. FINDLER, AND P. DINDA. Distributed Places. In *Proc. Trends in Functional Programming (TFP)*.
- [34] 13 FLATT, M. Submodules in Racket: You Want it *When*, Again? In *Proc. Conference on Generative Programming: Concepts and Experiences (GPCE)*.
- [35] 12 STRICKLAND, T.S., S. TOBIN-HOCHSTADT, R.B. FINDLER, AND M. FLATT. Chaperones and Impersonators: Run-time Support for Reasonable Interposition. In *Proc. ACM Conference on Object-Oriented Programming Systems, Languages, and Applications (OOPSLA)*.
- [36] 12 RAFKIND, J. AND M. FLATT. Honu: Syntactic Extension for Algebraic Notation through Enforestation. In *Proc. Conference on Generative Programming and Component Engineering (GPCE)*.
- [37] 12 ST-AMOUR, V., S. TOBIN-HOCHSTADT, M. FLATT, AND M. FELLEISEN. Typing the Numeric Tower. In *Proc. Practical Aspects of Declarative Languages (PADL)*.

- [38] 12 KLEIN, C., J. CLEMENTS, C. DIMOULAS, C. EASTLUND, M. FELLEISEN, M. FLATT, J. MCCARTHY, J. RAFKIND, S. TOBIN-HOCHSTADT, AND R.B. FINDLER. Run Your Research: On the Effectiveness of Lightweight Mechanization. In *Proc. ACM Symposium on Principles of Programming Languages (POPL)*.
- [39] 11 TEW, K., J. SWAINE, M. FLATT, R.B. FINDLER, AND P. DINDA. Places: Adding Message-Passing Parallelism to Racket. In *Proc. Dynamic Languages Symposium (DLS)*.
- [40] 11 TOBIN-HOCHSTADT, S., V. ST-AMOUR, R. CULPEPPER, M. FLATT, AND M. FELLEISEN. Languages as Libraries. In *Proc. ACM Conference on Programming Language Design and Implementation (PLDI)*.
- [41] 10 ATKINSON, K., M. FLATT, AND G. LINDSTROM. Using Macros to Address ABI Compatibility. In *Proc. Conference on Generative Programming and Component Engineering (GPCE)*.
- [42] 10 SWAINE, J., K. TEW, P. DINDA, R.B. FINDLER, AND M. FLATT. Back to the Futures: Incremental Parallelization of Existing Sequential Runtime Systems. In *Proc. ACM Conference on Object-Oriented Programming Systems, Languages, and Applications (OOPSLA)*.
- [43] 10 KLEIN, C., M. FLATT, AND R.B. FINDLER. Random Testing for Higher-Order, Stateful Programs. In *Proc. ACM Conference on Object-Oriented Programming Systems, Languages, and Applications (OOPSLA)*.
- [44] 09 FLATT, M., E. BARZILAY, AND R.B. FINDLER. Scribble: Closing the Book on Ad Hoc Documentation Tools. In *Proc. ACM International Conference on Functional Programming (ICFP)*, pages 109–120.
- [45] 09 FELLEISEN, M., R.B. FINDLER, M. FLATT, AND S. KRISHNAMURTHI. A Functional I/O System (or Fun for Freshman Kids). In *Proc. ACM International Conference on Functional Programming (ICFP)*, pages 47–58.
- [46] 09 RAFKIND, J., A. WICK, J. REGEHR, AND M. FLATT. Precise Garbage Collection for C. In *Proc. ACM International Symposium on Memory Management (ISMM)*, pages 39–48.
- [47] 07 FLATT, M., G. YU, R.B. FINDLER, AND M. FELLEISEN. Adding Delimited and Composable Control to a Production Programming Environment. In *Proc. ACM International Conference on Functional Programming (ICFP)*.
- [48] 06 OWENS, S. AND M. FLATT. From Structures and Functors to Modules and Units. In *Proc. ACM International Conference on Functional Programming (ICFP)*, pages 87–98.
- [49] 06 MCDIRMIID, S., W. HSIEH, AND M. FLATT. A Framework for Modular Linking in OO Languages. In *Proc. Joint Modular Languages Conference (JMLC)*.
- [50] 05 GRAY, K., R.B. FINDLER AND M. FLATT. Fine-Grained Interoperability through Mirrors and Contracts. In *Proc. ACM Conference on Object-Oriented Programming Systems, Languages, and Applications (OOPSLA)*, pages 231–245.
- [51] 05 CULPEPPER, R., S. OWENS, AND M. FLATT. Syntactic Abstraction in Component Interfaces. In *Proc. Conference on Generative Programming and Component Engineering (GPCE)*, pages 373–388.
- [52] 04 GOLDBERG, D., R.B. FINDLER, AND M. FLATT. Super and Inner — Together at Last! In *Proc. ACM Conference on Object-Oriented Programming Systems, Languages, and Applications (OOPSLA)*, pages 116–129.
- [53] 04 WICK, A. AND M. FLATT. Memory Accounting without Partitions. In *Proc. ACM International Symposium on Memory Management (ISMM)*, 11 pages.
- [54] 04 FINDLER, R.B. AND M. FLATT. Slideshow: Functional Presentations. In *Proc. ACM International Conference on Functional Programming (ICFP)*, pages 224–235.

- [55] 04 FLATT, M. AND R.B. FINDLER. Kill-Safe Synchronization Abstractions. In *Proc. ACM Conference on Programming Language Design and Implementation (PLDI)*, pages 47–58.
- [56] 04 FINDLER, R.B., M. FLATT, AND M. FELLEISEN. Semantic Casts: Contracts and Structural Subtyping in a Nominal World. In *Proc. European Conference on Object-Oriented Programming (ECOOP)*, pages 364–388.
- [57] 04 J. MATTHEWS, R.B. FINDLER, M. FLATT, AND M. FELLEISEN. A Visual Environment for Developing Context-Sensitive Term Rewriting Systems. In *Proc. International Conference on Rewriting Techniques and Applications (RTA)*.
- [58] 02 FLATT, M. Composable and Compilable Macros: You Want it *When*? In *Proc. ACM International Conference on Functional Programming (ICFP)*, pages 72–83.
- [59] 01 MCDIRMIID, S., M. FLATT, AND W. HSIEH. Jiazzzi: New-Age Components for Old-Fashioned Java. In *Proc. ACM Conference on Object-Oriented Programming Systems, Languages, and Applications (OOPSLA)*, pages 211–222.
- [60] 01 CLEMENTS, J., M. FLATT, AND M. FELLEISEN. Modeling an Algebraic Stepper. In *Proc. European Symposium on Programming (ESOP)*, pages 320–334.
- [61] 00 REID, A., M. FLATT, L. STOLLER, J. LEPREAU, AND E. EIDE. Knit: Component Composition for Systems Software. In *Proc. USENIX Conference on Operating System Design and Implementation (OSDI)*, pages 347–360.
- [62] 99 FLATT, M., R.B. FINDLER, S. KRISHNAMURTHI, AND M. FELLEISEN. Programming Languages as Operating Systems (*or Revenge of the Son of the Lisp Machine*). In *Proc. ACM International Conference on Functional Programming (ICFP)*, pages 138–147.
- [63] 98 FLATT, M. AND M. FELLEISEN. Units: Cool Modules for HOT Languages. In *Proc. ACM Conference on Programming Language Design and Implementation (PLDI)*, pages 236–248.
- [64] 98 FLATT, M., S. KRISHNAMURTHI, AND M. FELLEISEN. Classes and Mixins. In *Proc. ACM Symposium on Principles of Programming Languages (POPL)*, pages 171–183.
- [65] 98 FINDLER, R.B. AND M. FLATT. Modular Object-Oriented Programming with Units and Mixins. In *Proc. ACM International Conference on Functional Programming (ICFP)*, pages 94–104.
- [66] 97 FINDLER, R.B., C. FLANAGAN, M. FLATT, S. KRISHNAMURTHI, AND M. FELLEISEN. DrScheme: A Pedagogic Programming Environment for Scheme. In *Proc. International Symposium on Programming Languages, Implementations, Logics, and Programs (PLILP)*, pages 369–388.
- [67] 96 FLANAGAN, C., M. FLATT, S. KRISHNAMURTHI, S. WEIRICH, AND M. FELLEISEN. Finding Bugs in the Web of Program Invariants. In *Proc. ACM Conference on Programming Language Design and Implementation (PLDI)*, pages 23–32.

Workshop Papers

- [68] 18 CHERKAEV, A., S. MUSSLICK, J. COHEN, V. SRIKUMAR, AND M. FLATT. SweetPea: A Language for Designing Experiments. In *Off the Beaten Track*.
- [69] 17 LI, X. AND M. FLATT. Debugging Domain-Specific Languages Defined with Macros. In *Domain-Specific Language Design and Implementation*.
- [70] 16 FELTY, D., S. FLORENCE, T. KNUTSON, V. ST-AMOUR, R. CULPEPPER, M. FLATT, R.B. FINDLER, AND M. FELLEISEN. Languages the Racket Way: Submission to the 2016 Language Workbench Challenge. In *Language Workbench Challenge*.
- [71] 15 LI, X. AND M. FLATT. Medic: Metaprogramming and Trace-Oriented Debugging. In *Future Programming Workshop*.

- [72] 15 FLORENCE, S., R. CULPEPPER, M. FLATT, AND R.B. FINDLER. Check Syntax: An Out-of-the-Box Tool for Macro-Based DSLs. In *Domain Specific Language Design and Implementation*.
- [73] 12 SWAINE, J., B. FETSCHER, R.B. FINDLER, AND M. FLATT. Seeing the Futures: Profiling Shared-Memory Parallel Racket. In *Workshop on Functional High-Performance Computing*.
- [74] 11 ATKINSON, K. AND M. FLATT. Adapting Scheme-Like Macros to a C-Like Language. In *Proc. Scheme Workshop*.
- [75] 11 BARZILAY, E., R. CULPEPPER, AND FLATT, M. Keeping it Clean with syntax-parameterize. In *Proc. Scheme Workshop*.
- [76] 10 BARLAND, I., R.B. FINDLER, AND M. FLATT. The Design of a Functional Image Library. In *Proc. Scheme Workshop*.
- [77] 09 FLATT, M. AND E. BARZILAY Keyword and Optional Arguments in PLT Scheme. In *Proc. Scheme Workshop*.
- [78] 07 CULPEPPER, R., S. TOBIN-HOCHSTADT, AND M. FLATT. Advanced Macrology and the Implementation of Typed Scheme. In *Proc. Scheme Workshop*.
- [79] 04 GRAY, K. AND M. FLATT. Compiling Java to PLT Scheme. In *Proc. Scheme Workshop*.
- [80] 04 OWENS, S., M. FLATT, O. SHIVERS, AND B. MCMULLAN. Lexer and Parser Generators in Scheme. In *Proc. Scheme Workshop*.
- [81] 03 GRAY, K. AND M. FLATT. ProfessorJ: A Gradual Intro to Java through Language Levels. In *OOPSLA Educator's Symposium*.
- [82] 02 WICK, A., M. FLATT, AND W. HSIEH. Reachability-Based Memory Accounting. In *Proc. Scheme Workshop*.
- [83] 02 FELLEISEN, M., R.B. FINDLER, M. FLATT, AND S. KRISHNAMURTHI. The Structure and Interpretation of the Computer Science Curriculum. In *Workshop on Functional and Declarative Programming in Education*.
- [84] 01 MCDIRIMID, S., M. FLATT, AND W. HSIEH. Mixing COP and OOP. In *Workshop on Language Mechanisms for Programming Software Components at OOPSLA*.
- [85] 01 EIDE, E., A. REID, M. FLATT, AND J. LEPREAU. Aspect Weaving as Component Knitting: Separating Concerns with Knit. In *Workshop on Advanced Separation of Concerns in Software Engineering at ICSE*.

Technical Reports and Reference Manuals

- [86] 11 FLATT, M. AND PLT *Reference: Racket*. PLT-TR-2010-1, 910 pages.
- [87] 11 FLATT, M., R.B. FINDLER, AND J. CLEMENTS. *GUI: Racket Graphics Toolkit*. PLT-TR-2010-3, 399 pages.
- [88] 96 FLATT, M. *MrEd: An Engine for Portable Graphical User Interfaces*. TR96-258, 15 pages.

Other Publications

- [89] 25 FLATT, R.B. FINDLER. Safe-for-Space Linked Environments. In *OlivierFest (Olivier Danvy Festschrift)*.
- [90] 11 FLATT. Creating Languages with Racket. *Queue*, 9(11), pages 21–29. Also appears in *Communications of the ACM*, 55(1), pages 48–56.
- [91] 06 FLATT, M., R.B. FINDLER., AND M. FELLEISEN. Scheme with Classes, Mixins, and Traits (invited tutorial). In *Asian Symposium on Programming Languages and Systems (APLAS)*, pages 270–289.

- [92] 04 FELLEISEN., M., R.B. FINDLER, M. FLATT, AND S. KRISHNAMURTHI. Building Little Languages with Macros. *Dr. Dobbs Journal*, pages 45–49 (April).
- [93] 04 CLEMENTS, J., M. FELLEISEN., R.B. FINDLER, M. FLATT, AND S. KRISHNAMURTHI. Fostering Little Languages. *Dr. Dobbs Journal*, pages 16–24 (March).
- [94] 98 FELLEISEN, M., R.B. FINDLER, M. FLATT, AND S. KRISHNAMURTHI. The DrScheme Project: An Overview. *SIGPLAN Notices*, pages 17–23 (June).
- [95] 97 FLATT, M. AND M. FELLEISEN. Program Units as Higher-Order Modules. In *Proc. Workshop on Higher-Order Operational Techniques in Semantics*, ENTCS volume 10, Elsevier, 26 pages.

Unpublished

- [96] 03 FELLEISEN, M. AND M. FLATT. *Programming Languages and Lambda Calculi*. Unpublished monograph. Superseded by *Semantics Engineering with PLT Redex*.

Research Support

- 23-26 JONATHAN D. COHEN (PI), SEBASTIAN MUSSLICK, MATTHEW FLATT (LOCAL PI), VIVEK SRIKUMAR. Collaborative Research: HNDS-I: SweetPea: Automating the Implementation and Documentation of Unbiased Experimental Designs. NSF HNDS infrastructure program, \$319,911 (total for all sites: \$1,000,000).
- 18-21 MATTHEW FLATT (PI) SHF: Small: A Domain-Specific Language for Designing Cognitive-Science Experiments. NSF CCF SHF program, \$424,000.
- 18-21 MATTHIAS FELLEISEN (PI), ROBERT FINDLER, SAM TOBIN-HOCHSTADT, MATTHEW FLATT (LOCAL PI). CRI: CI-SUSTAIN: Racket on Alternative Platforms. NSF CNS CRI program, \$200,000 (total for all sites: \$685,000).
- 15-18 ROBERT BRUCE FINDLER (LEAD PI), STEVEN M. BELKNAP, MATTHEW FLATT (LOCAL PI), DENNIS P. WEST. SHF: Small: Collaborative Research: Designing a Programming Language for Patient-Oriented Prescriptions. NSF CCF SHF program, \$120,000 (total for all sites: \$400,000).
- 14-17 ROBERT BRUCE FINDLER (LEAD PI), MATTHIAS FELLEISEN, MATTHEW FLATT (LOCAL PI). CI-EN: Collaborative: Run Your Research with Redex. NSF CI program, \$200,000 (total for all sites: \$900,000).
- 12-14 ROBERT BRUCE FINDLER (LEAD PI), STEVEN M BELKNAP, MATTHEW FLATT (LOCAL PI). SHF: Small: Collaborative Research: Designing a Patient-Oriented Prescription Language: An Executable Medical Algorithm for Gestational Diabetes Mellitus. NSF CCF SHF program, \$24,903 (total for all sites: \$498,699).
- 10-14 OLIN SHIVERS (LEAD PI), MATTHIAS FELLEISEN, PETE MANOLIOS, MITCH WAND, MATTHEW MIGHT (LOCAL PI), MATTHEW FLATT. GnoSys: Raising the Level of Discourse in Systems Programming. DARPA CRASH program, \$1,500,000 (total for all sites: around \$5,000,000).
- 09-13 MATTHEW FLATT (PI). An Extensible Gradual Type System via Compile-Time Meta-Programming. NSF CCF SHF program, \$419,000.
- 09-11 MATTHIAS FELLEISEN (PI), ROBERT BRUCE FINDLER, MATTHEW FLATT (LOCAL PI), SHRI-RAM KRISHNAMURTHI. Infrastructure for the Production of Languages. NSF CI-ANNDO-EN, \$134,415 (total for all sites: \$660,000).
- 06-10 STEPHEN BLOCH (PI), JOHN B. CLEMENTS, KATHI FISLER, MATTHEW FLATT (LOCAL PI), VIERA K. PROULX. Redesigning Introductory Computing: The Design Discipline. NSF DUE program, \$20,000 (total for all sites: \$499,688, mostly to support workshop participants across all sites).
- 05-08 MATTHEW FLATT (PI), JOHN REGEHR. Experimenting with Garbage Collection in an Otherwise Conventional Operating System. NSF PDOS program, \$380,000.
- 04-07 MATTHEW FLATT (LOCAL PI), collaborative with OLIN SHIVERS (LEAD PI) (GATech), PETE MANOLIOS (GATech). Language Towers as Design Frameworks. NSF SOD program, \$180,000 (total for all sites: \$630,000).

- 04-07 MATTHEW FLATT (LOCAL PI), JOHN REGEHR, ERIC EIDE, collaborative with RAY KLEFSTAD (LEAD PI) (UCI). Collaborative Research: EHS: Components and Aspects for Embedded Middle-ware. NSF EHS program, \$360,000 (total for all sites: \$630,000). *This proposal was submitted by Wilson Hsieh, Eric Eide, and Ray Klefstad.*
- 03-05 MATTHEW FLATT (LOCAL PI), collaborative with ROBERT BRUCE FINDLER (LEAD PI) (UChicago). Collaborative: Exploiting Component Contracts for Static Analysis and Testing. NSF SEL program, \$159,987 (total for all sites: \$270,000).
- 03 MATTHEW FLATT (PI). PLT Scheme for VCC. DARPA seedling contract, \$53,950.
- 01-04 MATTHIAS FELLEISEN (PI) (Northeastern), STEPHEN BLOCH (Gustavus Adolphus), KATHI FISLER (WPI), MATTHEW FLATT, SHRIRAM KRISHNAMURTHI (Brown). Computing Education for Every Student in Secondary School. NSF ESI program, \$184,236 (total for all sites: \$1,606,205).
- 00-04 JAY LEPREAU (PI) AND MATTHEW FLATT. Alchemy: Transmuting Raw Components into Robust Code. DARPA PCES, \$2,900,000.

Software

- Racket** with Racket developers <http://racket-lang.org/>
 95-present Racket (formerly PLT Scheme) is a suite of programming tools that includes the DrRacket programming environment.
Average downloads per day from main site in 2023: about 2,000
Views at Discourse group per day in November 2023: about 1,000
- Rhombus** with Rhombus developers <http://rhombus-lang.org/>
 26-present Rhombus is an extensible language that is built on Racket.
- SweetPea** with Jon Cohen, Sebastian Musslick, Vivek Srikumar, et al. <https://sweetpea-org.github.io/>
 21-present SweetPea is a domain-specific language, packaged as a Python library, for describing cognitive-psychology experiments and synthesizing uniform samples from possible experiment configurations.
- PsyScope** with Jefferson Provost, Jon Cohen, et al. <http://psyscope.psy.cmu.edu/>
 90-94 PsyScope is a system for creating and running experiments in cognitive psychology on Macintosh computers.

Invited Talks and Instruction

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| 26 | Keynote | ML Family Workshop | Indianapolis, IN |
| 26 | Invited Talk | Scheme Workshop | Indianapolis, IN |
| 26 | Invited Talk | Prog. Lang. Implementation Summer School (PLISS) | Bertinoro, Italy |
| 25 | Talk | Automated Scientific Discovery of Mind & Brain Workshop | Princeton, NJ |
| 25 | Seminar | Princeton University | Princeton, NJ |
| 25 | Invited Talk | Real-World Programming Language Specification | Seoul, Korea |
| 23 | Seminar | University of the Chinese Academy of Sciences | Beijing, China |
| 23 | Seminar | Peking University | Beijing, China |
| 23 | Seminar | National University of Singapore | Singapore |
| 22 | Seminar | National University of Singapore | Singapore |
| 20 | Invited Talk | Virtual Machines and Intermediate Languages (VMIL) | virtual |
| 20 | Virtual Seminar | LCFS Seminar | Edinburgh, UK |
| 19 | Keynote | Clojure/conj | Durham, NC |
| 19 | Invited Talk | European Lisp Symposium | Genoa, Italy |
| 18 | Invited Talk | Scheme Workshop | St. Louis, MO |

17	Keynote	Intl. Conf. Art, Science, and Engineering of Programming (<Programming>)	Brussels, Belgium
17	Seminar	Brown University	Providence, RI
17	Seminar	University of Washington	Seattle, WA
16	Talk	Strange Loop Conference	St. Louis, MO
16	Keynote	Workshop on Partial Evaluation and Program Manipulation (PEPM)	St. Petersburg, FL
15	Summer School	DSL Design and Implementation	Lausanne, Switzerland
14	Colloquium	University of Kent	Canterbury, UK
14	Seminar	University of Cambridge	Cambridge, UK
14	Invited Talk	Mozilla	San Francisco, CA
13	Invited Talk	Control Operators and their Semantics (COS)	Eindhoven, Netherlands
13	Invited Talk	Workshop on Trends in Functional Programming in Education (TFPIE)	Provo, UT
13	Keynote	Clojure/West	Portland, OR
13	Colloquium	Vrije Universiteit Brussel	Brussels, Belgium
13	Invited Tutorial	TutorialFest at POPL	Rome, Italy
13	Colloquium	Northwestern University	Evanston, IL
12	Talk	Strange Loop Conference	St. Louis, MO
12	Colloquium	Chinese Academy of Sciences, Institute of Software	Beijing, China
12	Colloquium	Sun-Yat Sen University	Guangzhou, China
11	Invited Tutorial	ECOOP Summer School	Lancaster, England
09	Colloquium	Brigham Young University	Provo, UT
06	Invited Tutorial	Asian Sym. on Prog. Lang. and Systems (APLAS)	Sydney, Australia
06	Invited Lectures	Oregon Summer School on Concurrency	Eugene, OR
04	Colloquium	University of Chicago	Chicago, IL
04	Colloquium	University of Washington	Seattle, WA
04	Colloquium	Microsoft Research	Redmond, WA
03	Invited Mini-Tutorial	Conf. on Generative Programming and Component Engineering (GPCE)	Erfurt, Germany
03	Panel, $\frac{1}{2}$ -Day Tutorial	SIGCSE Conference	Reno, NV
03	Invited Lecture	Semana de Computación en Ciencias, National University of Mexico	Mexico City
02	Submitted Presentation	Lightweight Languages Workshop	Boston, MA
02	Colloquium	Georgia Institute of Technology	Atlanta, GA
02	Colloquium	Universität Tübingen	Tübingen, Germany
02	1-Day Tutorial	SIGCSE Conference	Cincinnati, OH
02	Course Lecture	Brown University	Providence, RI
02	Seminar	Yale University	New Haven, CT
01	Seminar	Northeastern University	Boston, MA
01	Systems Seminar	Purdue University	West Lafayette, IN
01	Colloquium	South China University of Technology	Canton, China

Other Instruction

26	Tutorial	Intl. Conf. Functional Programming (ICFP)	Indianapolis, IN
25	Tutorial	ICFP/SPLASH	Singapore

Teaching

S24-26	Instructor for CS 6014 MSD Networking & Security	University of Utah
Enrollment — S26: 14; S24: 30; S25: 31 students		

S26	Instructor for CS 7520 Programming Languages and Semantics Enrollment — 12 students	University of Utah
S24	Instructor for CS 6525 Functional Programming Studio Enrollment — 12 students	University of Utah
F23-25, F18-21	Instructor for CS 3520/6520 Programming Languages Enrollment — F25: 145; F24: 130; F23: 159; F21: 122; F20: 84; F19: 80; F18: 77 students	University of Utah
S20-22	Instructor for CS 6015 MSD Software Engineering Enrollment — S20: 28; S21: 34; S22: 43 students	University of Utah
S21, S19	Instructor for CS 6963 Functional Programming Studio Enrollment — S21: 20; S19: 18 students	University of Utah
F16-18, F12	Instructor for CS 4400 Computer Systems Enrollment — F18: 155; F17: 162; F16: 122; F12: 157 students	University of Utah
F17	Instructor for CS 5510/6510 Programming Languages Enrollment — 72 students	University of Utah
S16-17, S14, S12, S10, S08	Instructor for CS 6510 Functional Programming Enrollment — S17: 29; S16: 14; S14: 15; S12: 15; S10: 16; S08: 14 students	University of Utah
S16	Instructor for CS 5965/6965 Functional Programming Studio Enrollment — 17 students	University of Utah
F15-16, F13, F07-11	Instructor for CS 5510 Programming Languages Enrollment — F16: 50; F15: 45; F13: 45; F11: 37; F10: 29; F09: 18; F07: 27 students	University of Utah
S11-12	Instructor for CS 2420-20 Computer Science II (systems) Enrollment — S12: 13; S11: 6 students	University of Utah
F10-11	Instructor for CS 1410-20 Computer Science I (systems) Enrollment — F11: 18; F10: 21 students	University of Utah
F09	Instructor for CS 5460/6460 Operating Systems Enrollment — 61 students	University of Utah
S13, S11, S09, S06, S00-04	Instructor for CS 6520/7520 Programming Languages and Semantics Enrollment — S13: 5; S11: 9; S09: 15; S06: 15; S04: 11; S03: 11; S02: 27; S01: 19; S00: 17 students	University of Utah
F08	Instructor for CS 4960-01 Parallel Programming Enrollment — 31 students	University of Utah
S08	Instructor for CS 5967 How to Design Programs Enrollment — 4 students	University of Utah
F05, F00-02	Instructor for CS 3520 Programming Language Concepts Enrollment — F05: 20; F02: 44; F01: 82; F00: 73 students	University of Utah
S05	Instructor for CS 7963 Practical Functional Programming Enrollment — 10 students	University of Utah
F03	Instructor for CS 2010 Computer Science I Enrollment — 136 students	University of Utah
S96	Teaching assistant for COMP 311 Programming Languages	Rice University
F95, S95, F94	Lab instructor for COMP 210 Intro Computer Science	Rice University

Curriculum Development

TeachScheme!

The *TeachScheme!* curriculum is used in introductory computer science courses at the high school through university levels. The DrScheme programming environment and *How to Design Programs* book are part of this curriculum.
<http://www.htdp.org/>

07-09	Directed summer <i>TeachScheme/ReachJava</i> workshop	University of Utah
00-04	Directed summer <i>TeachScheme!</i> workshop for high-school teachers	University of Utah

02 Directed *TeachScheme!* workshop for faculty/staff/TAs
 97-99 Instructor for *TeachScheme!* Workshop

Georgia Tech
 Rice University

Semantics of Programming Languages

Created new course notes [96] for CS 7520 to provide a concise and up-to-date presentation of semantic techniques for current languages research.

15 Local organizer summer *Redex* workshop

University of Utah

Post-Doc Advising

26 Monthir Abusham
 25 Di Wang
 24 Sirus Shahini
 12-13 Danny Yoo
 11-12 Ryan Culpepper

Thesis Committees

15-21	William Hatch		PhD thesis committee	Co-chair/Co-advisor
12-17	Xiangqi Li		PhD thesis committee	Chair/Advisor
07-13	Jon Rafkind		PhD thesis committee	Chair/Advisor
07-12	Kevin Tew		PhD thesis committee	Chair/Advisor
06-09	Eric Eide		PhD thesis committee	Chair/Advisor
05-11	Kevin Atkinson		PhD thesis committee	Co-chair/Co-advisor
00-06	Kathy Gray		PhD thesis committee	Chair/Advisor
00-06	Scott Owens		PhD thesis committee	Co-chair/Co-advisor
00-06	Adam Wick		PhD thesis committee	Chair/Advisor
26	Olivier Melançon	U. Montreal	PhD thesis committee	External member
24-26	Yuyou Fan		PhD thesis committee	Member
24-26	Jerry Cheng		PhD thesis committee	Member
24-25	Michael Ballantyne	Northeastern	PhD thesis committee	External member
23-	John Jacobsen		PhD thesis committee	Member
21-24	Mark Baranowski		PhD thesis committee	Member
19-21	Junior Rojas		PhD thesis committee	Member
19	Gabriël Konat	TU Delft	PhD thesis committee	External member
19	Baptiste Saleil	U. Montreal	PhD thesis committee	External member
18-19	Shaobo He		PhD thesis committee	Member
17-21	Jubi Taneja		PhD thesis committee	Member
17-21	Tian Zhang		PhD thesis committee	Member
16-20	Mo. Saeed Al-Mahfoudh		PhD thesis committee	Member
15-18	Kimball Germane		PhD thesis committee	Member
14-15	Steven Lyde		PhD thesis committee	Member
14-15	Saurav Muralidharan		PhD thesis committee	Member
13-16	Thomas Gilray		PhD thesis committee	Member
13-17	Peter Aldous		PhD thesis committee	Member
09-14	James Swaine	Northwestern	PhD thesis committee	External member
11-14	Shuying Liang		PhD thesis committee	Member

13	Christophe Scholliers	Vrije U. Brussel	PhD thesis committee	External member
09-12	T. Stephen Strickland	Northeastern	PhD thesis committee	External member
09-13	Christopher Earl		PhD thesis committee	Member
07-14	Xuejun Yang		PhD thesis committee	Member
07-13	Jianjun Duan		PhD thesis committee	Member
07-12	Lu Zhao		PhD thesis committee	Member
07-10	Guodong Li		PhD thesis committee	Member
07-10	Ryan Culpepper	Northeastern	PhD thesis committee	External member
07-08	Nathan Coopridge		PhD thesis committee	Member
04-07	Nicole Anderson		PhD thesis committee	Member
03-06	Kostadin Damevski		PhD thesis committee	Member
03-05	Sean McDirmid		PhD thesis committee	Member
02-04	Ali Sezgin		PhD thesis committee	Member
01-05	John Clements	Northeastern	PhD thesis committee	External member
01-04	Jason Yang		PhD thesis committee	Member
00-07	Peter Jensen		PhD thesis committee	Member
16-18	Anastasia Cherkav		MS thesis committee	Member
17-18	Meher Samineni	ECE	MS thesis committee	Member
10-11	Raghuveer Pullakandam		MS thesis committee	Member
09-10	Gabe Rudy		MS thesis committee	Member
09-09	James Swaine	Northwestern	MS thesis committee	External member
08-09	Casey Klein	U. Chicago	MS thesis committee	External member
02-04	Mac Newbold		MS thesis committee	Member
02-03	Kostadin Damevski		MS thesis committee	Member
01-02	William Phillips		MS thesis committee	Member
01-02	Brian Remick		MS thesis committee	Member
99-01	Jason Baker		MS thesis committee	Member

Undergraduate Advising

24	Cooper Coradeschi	Bachelor's Thesis	Advisor
24	Alec Mills	Bachelor's Thesis	Advisor
23	Ben Huenemann	Bachelor's Thesis	Advisor
21	Sona Torosyan	Bachelor's Thesis	Advisor
19	Scott Butler	Bachelor's Thesis	Advisor
19	Anthony Chyr	Bachelor's Thesis	Advisor
17	Sheyne Anderson	Bachelor's Thesis	Advisor
16	Tim Knutson	Bachelor's Thesis	Advisor
16	Daniel Wallace	Bachelor's Thesis	Advisor
10	David Darais	Bachelor's Thesis	Advisor
06	Yun Jin Kang	Undergraduate Research (UROP)	Advisor

Service

Steering Committees

18-23	Intl. Conf. Art, Science, and Engineering of Programming (APROG)	Member
17-20	ACM Intl. Conf. on Functional Programming (ICFP)	Member
15-19	ACM Conf. on Generative Programming: Concepts & Experiences (GPCE)	Member
04-07	ACM Intl. Conf. on Functional Programming (ICFP)	Member

02-04	Scheme Workshop	Member
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General Chairing

17	ACM Conf. on Generative Programming: Concepts & Experiences (GPCE)	General chair
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Program Committees

27-28	European Conf. on Object-Oriented Programming (ECOOP)	Co-chair
20	ACM Dynamic Languages Symposium (DLS)	Chair
19	Intl. Conf. Art, Science, and Engineering of Programming (⌞Programming⌟)	Chair
18	ACM Intl. Conf. on Functional Programming (ICFP)	Chair
14	ACM Conf. on Generative Programming: Concepts & Experiences (GPCE)	Chair
14	Sym. on Practical Aspects of Declarative Languages (PADL)	Co-Chair
03	Scheme Workshop	Chair
27	ACM Conf. on Obj-Oriented Prog, Langs, Sys, and Apps (OOPSLA)	Associate Chair
24	ACM Conf. on Programming Language Design and Implementation (PLDI)	Area Chair
23	ACM Intl. Conf. on Functional Programming (ICFP)	Associate Chair
27	ACM Intl. Conf. on Functional Programming (ICFP)	Member
27	Architectural Support for Prog. Lang. and Op. Sys. (ASPLOS), round 1	Member
26	European Conf. on Object-Oriented Programming (ECOOP)	Member
26	Intl. Conf. Managed Programming Languages & Runtimes (MPLR)	Member
26	Sym. on Practical Aspects of Declarative Languages (PADL)	Member
26	Intl. Conf. Art, Science, and Engineering of Programming (⌞Programming⌟)	Member
25	Intl. Conf. Art, Science, and Engineering of Programming (⌞Programming⌟)	Member
24	ACM Conf. on Generative Programming: Concepts & Experiences (GPCE)	Member
24	Workshop on Functional Software Architecture (FUNARCH)	Member
24	Sym. on Practical Aspects of Declarative Languages (PADL)	Member
24	ACM Conf. on Obj-Oriented Prog, Langs, Sys, and Apps (OOPSLA)	Member (large PC)
23	Sym. on Implementation and Application of Functional Languages (IFL)	Member
23	ACM Conf. on Obj-Oriented Prog, Langs, Sys, and Apps (OOPSLA)	Member (large PC)
23	Intl. Conf. Art, Science, and Engineering of Programming (⌞Programming⌟)	Member
22	Trends in Functional Programming (TFP)	Member
21	Workshop on Virtual Machines and Intermediate Languages (VMIL)	Member
21	ACM Conf. on Generative Programming: Concepts & Experiences (GPCE)	Member
21	Onward!	Member
21	European Lisp Symposium (ELS)	Member
21	Workshop on Trends in Functional Programming in Education (TFPIE)	Member
21	ACM Conf. on Programming Language Design and Implementation (PLDI)	Member (large PC)
21	Intl. Conf. Art, Science, and Engineering of Programming (⌞Programming⌟)	Member
20	European Conf. on Object-Oriented Programming (ECOOP)	External member
20	ACM Conf. on Programming Language Design and Implementation (PLDI)	External member
20	Intl. Conf. Art, Science, and Engineering of Programming (⌞Programming⌟)	Member
19	ACM Conf. on Generative Programming: Concepts & Experiences (GPCE)	Member
19	ACM Conf. on Obj-Oriented Prog, Langs, Sys, and Apps (OOPSLA)	External member
18	Workshop on Meta-Programming Techniques and Reflection (META)	Member
18	Intl. Conf. Art, Science, and Engineering of Programming (⌞Programming⌟)	Member
17	ACM Intl. Conf. on Functional Programming (ICFP)	Member
17	ACM Dynamic Languages Symposium (DLS)	Member
17	Workshop on Partial Evaluation and Program Manipulation (PEPM)	Member

16	ACM Intl. Conf. on Functional Programming (ICFP)	External member
16	ACM Dynamic Languages Symposium (DLS)	Member
16	ACM Conf. on Generative Programming: Concepts & Experiences (GPCE)	Member
16	European Conf. on Object-Oriented Programming (ECOOP)	Member
16	Intl. Conf. on Compiler Construction (CC)	Member
15	ACM Dynamic Languages Symposium (DLS)	Member
15	ACM Conf. on Generative Programming: Concepts & Experiences (GPCE)	Member
15	Sym. on Practical Aspects of Declarative Languages (PADL)	Member
15	European Lisp Symposium (ELS)	Member
15	ACM Conf. on Programming Language Design and Implementation (PLDI)	External member
15	Intl. Conf. on Modularity (MODULARITY)	Member
14	Workshop on Domain Specific Languages Design and Implementation (DSLDI)	Member
14	European Conf. on Object-Oriented Programming (ECOOP)	External member
13	Workshop on Trends in Functional Programming in Education (TFPIE)	Member
13	ACM Conf. on Generative Programming: Concepts & Experiences (GPCE)	Member
13	Workshop on Foundations of Aspect-Oriented Languages (FOAL)	Member
13	ACM Conf. on Programming Language Design and Implementation (PLDI)	Member
12	Sym. on Implementation and Application of Functional Languages (IFL)	Member
12	ACM Dynamic Languages Symposium (DLS)	Member
12	European Conf. on Object-Oriented Programming (ECOOP)	Member
12	ACM Conf. on Programming Language Design and Implementation (PLDI)	External member
12	Intl. Conf. on Compiler Construction (CC)	Member
12	Sym. on Practical Aspects of Declarative Languages (PADL)	Member
11	ACM Conf. on Obj-Oriented Prog, Langs, Sys, and Apps (OOPSLA)	Member
10	Workshop on Dynamic Languages and Applications (Dyla)	Member
09	Sym. on Implementation and Application of Functional Languages (IFL)	Member
09	Intl. Conf. on Software Composition (SC)	Member
09	ACM Conf. on Principles of Programming Languages (POPL)	Member
08	Workshop on Virtual Machines and Intermediate Languages (VMIL)	Member
08	Functional and Declarative Programming in Education (FDPE)	Member
08	Asian Symposium on Programming Languages and Systems (APLAS)	Member
08	Sym. on Practical Aspects of Declarative Languages (PADL)	Member
08	ACM Workshop on Foundations of Object-Oriented Languages (FOOL)	Member
07	Workshop on Dynamic Languages and Applications (Dyla)	Member
06	ACM Conf. on Programming Language Design and Implementation (PLDI)	Member
06	Sym. on Practical Aspects of Declarative Languages (PADL)	Member
06	Workshop on Foundations of Aspect-Oriented Languages (FOAL)	Member
05	ACM Dynamic Languages Symposium (DLS)	Member
05	ACM Intl. Conf. on Functional Programming (ICFP)	Member
04	Conf. on Generative Programming & Component Engineering (GPCE)	Member
04	Sym. on Practical Aspects of Declarative Languages (PADL)	Member
03	Workshop on Object-Oriented Developments (WOOD)	Member
03	Sym. on Practical Aspects of Declarative Languages (PADL)	Member
02	ACM Intl. Conf. on Functional Programming (ICFP)	Member
01	Scheme Workshop	Member

Artifact Evaluation Committees

17	ACM Intl. Conf. on Functional Programming (ICFP)	Co-Chair
15-16	European Conf. on Object-Oriented Programming (ECOOP)	Co-Chair

Other Committees

26	JFP Richard Bird Dissertation Award	Member
20	«Programming» Student Research Competition Jury (postponed)	Member
17	«Programming» Student Research Competition Jury	Member
16	SPLASH Doctoral Symposium	Chair
16	ACM SIGPLAN Robin Milner Young Researcher Award Committee	Member
16	Euro. Conf. on Object-Oriented Programming (ECOOP) Doctoral Symposium	Academic Panel
13	ACM SIGPLAN Outstanding Doctoral Dissertation Award Committee	Member
12	ACM Conf. on Programming Language Design and Implementation (PLDI)	Tutorial chair
09-12	ACM SIGPLAN Outstanding Doctoral Dissertation Award Committee	Chair
09-12	ACM SIGPLAN Executive Committee	Member-at-large
05	ICFP Programming Contest organizers	Member
04-07	Scheme Language Standard (R6RS) editors	Member

Journal Guest Editing

06	<i>J. Functional Programming</i> , Special Issue on ICFP'05	Guest co-editor
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Journal Editorial Board

09-18	<i>J. Functional Programming</i>	Member
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Reviewing

Reviewer for *Formal Aspects of Computing*, *Journal of Systems and Software*, *Journal of Computer Languages* (×3), *Computer Languages, Systems & Structures*, *Transactions on Programming Languages and Systems* (×5), *IEEE Transactions on Software Engineering* (×2), *Computing Surveys*, *Journal of Functional Programming* (×8), *Theory and Practice of Object Systems*, *Software: Practice & Experience* (×3), *Higher-Order and Symbolic Computation* (×3), *Computer Languages, Systems, and Structures* (×2), *Science of Computing* (×2), *Information and Software Technology*.

External reviewer for POPL'27, ICFP'25, POPL'20, HOPL'20, POPL'18, POPL'12, ICFP'11, ICFP'10, ECOOP'09, OOPSLA'08, ECOOP'08, PLDI'08, ASOD'08, ESOP'08, POPL'08, OOPSLA'07, PADL'07, POPL'07, SCHEME'06, ICALP'06, USENIX'06, POPL'06, ICALP'05, ICFP'04, ESOP'04, TYPES'03, ICFP'03, POPL'03, ECOOP'02, ICFP'01, PLDI'01, POPL'01, ICFP'00, POPL'00, ICFP'99, PLDI'99, PPDP'99, OOPSLA'98, and ICFP'96.

NSF proposal review panel: 26, 25, 12, 11, 06, 05.

University

25-28	Academic Senate	Senator
11-13	Fine Arts Area Committee	Member

College of Engineering

05-06	College Curriculum Committee	Member
04-06	College Council	Member

School of Computing

25-26	Informal RPT Committee	Member
17-22	[Undergraduate] Curriculum Committee	Chair
15-17	Graduate Admissions	Chair
15-17	Undergraduate Curriculum Committee	Member

13-14	Graduate Admissions	Chair
08-14	Industry Forum	Organizer
08-10	Graduate Admissions	Member
05	Facility Task Force	Member
04-05	Facility Committee	Member
03-06	Curriculum Committee	Member
02-03	Distinguished Lecture Series	Organizer
00-03	Undergraduate Committee	Member
00-03	Foundations Comprehensive Exam Committee	Member

RacketCon and Racket Summer School

25	RacketCon	Boston	General organizer
24	RacketCon	Seattle	General organizer
19	RacketCon	Utah	General organizer, contracting, and local arrangements
18	RacketCon	St. Louis	General organizer, contracting, and local arrangements
17-19	Summer School	Utah	Local organizer, instructor
17	RacketCon	Seattle	General organizer
14-16	RacketCon	St. Louis	General organizer, contracting, and local arrangements

Awards

18	Programming Languages Software Award	ACM SIGPLAN
14	Distinguished Scientist	ACM
09	Outstanding Teaching Award	School of Computing, University of Utah
05	Early Career Teaching Award	University of Utah

Interviews

15	Software Engineering Daily	http://softwareengineeringdaily.com/2015/11/04/racket-with-matthew-flatt/
15	Functional Geekery	Episode 24 http://www.functionalgeekery.com/episode-24-matthew-flatt/
15	Cognicast	Episode 084 http://blog.cognitect.com/cognicast/084
14	Cognicast	Episode 061 http://blog.cognitect.com/cognicast/061-matthew-flatt
11	FLOSS Weekly	Episode 167 https://www.youtube.com/watch?v=vJGV7HaTdbg