## ICFP 2017 Program

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Sun 3 Sep
    09:00 - 10:00: Tutorials - Morning tutorial session 1 at L5
    09:00 - 10:00
                     Tutorial T1: Writing Verified Programs in CakeML
    Talk
                         Ramana Kumar, Michael Norrish, Scott Owens, Magnus O. Myreen
    09:00 - 09:10: Scheme 2017 - Session 0 at L4
    09:00 - 09:10
                     Welcome
    Day opening
    09:00 - 09:10: PLMW 2017 - Welcome at L1
    Chair(s): Brigitte Pientka
    09:00 - 09:10
                     Welcome
    Talk
                         Brigitte Pientka, Neelakantan R. Krishnaswami, Dan Licata
    09:00 - 09:05: TyDe 2017 - Welcome at L2
    09:00 - 09:05
                     Welcome
    Day opening
                        Sam Lindley, Brent Yorgey
    09:00 - 09:10: HOPE 2017 - Welcome at | L3 |
    09:00 - 09:10
                     Welcome
    Day opening
                        François Pottier, Aleksandar Nanevski
    09:05 - 10:00: TyDe 2017 - Invited talk at | L2 |
    09:05 - 10:00
                     Driving types into PHP
    Talk
                        Andrew Kennedy
    09:10 - 10:00: HOPE 2017 - Invited talk at L3
    09:10 - 10:10
                     Invited Talk: Semantics of Effect Systems by Graded Monads
    Talk
                         Shin-ya Katsumata
    09:10 - 10:00: PLMW 2017 - Keynote at L1
    Chair(s): Neelakantan R. Krishnaswami
    09:10 - 10:00
                     Keynote
    Talk
                        Chris Martens
    09:10 - 10:10: Scheme 2017 - Session 1 at | L4 |
    09:10 - 10:10
                     Keynote
    Talk
                        Sam Tobin-Hochstadt
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10:00 - 10:30 Coffee break	Sunday coffee break 1
10:30 - 11:30:	TyDe 2017 - Full papers 1 at L2
10:30 - 11:00 Talk	Generic packet descriptions: verified parsing and pretty printing of low-level data  Marcell van Geest, Wouter Swierstra
11:00 - 11:30 Talk	Structured asynchrony with algebraic effects  Daan Leijen
10:30 - 11:30:	HOPE 2017 - Modular Semantics at L3
10:30 - 11:00 Talk	Higher-order Programming is an Effect  Oleg Kiselyov
11:00 - 11:30 Talk	A monadic solution to the Cartwright-Felleisen-Wadler conjecture  Ohad Kammar, Dylan McDermott
10:30 - 11:30:	Tutorials - Morning tutorial session 2 at L5
10:30 - 11:30 Talk	Tutorial T1: Writing Verified Programs in CakeML (part 2) Ramana Kumar, Michael Norrish, Scott Owens, Magnus O. Myreen
10:30 - 11:30:	PLMW 2017 - Session 1 at L1
10:30 - 11:00 Talk	A Few Frank Remarks  Conor McBride
11:00 - 11:30 Talk	Compositional Compiler Correctness  Amal Ahmed
10:30 - 11:30:	Scheme 2017 - Session 2 at L4
10:30 - 11:15 Talk	Paper: Scalar and Tensor Parameters for Importing Tensor Index Notation including Einstein Summation Notation  Satoshi Egi
11:15 - 11:30 Talk	Lightning Talk: Extending the LISP model from cons cells to triples, from trees to hypergraphs  Joe Corneli, Raymond Puzio
11:20 - 12:00:	Catering - Sunday coffee break 2 at Catering
11:20 - 12:00 Coffee break	Sunday coffee break 2
12:00 - 12:25:	: TyDe 2017 - Extended abstracts 1 at L2
12:00 - 12:25 Talk	Cogent ↑: giving systems engineers a stepping stone  Zilin Chen
12:00 - 12:30:	: Tutorials - Morning tutorial session 3 at L5

12:00 - 12:30:	HOPE 2017 - Rust at L3
12:00 - 12:30 Talk	RustBelt: Securing the Foundations of the Rust Programming Language Ralf Jung, Jacques-Henri Jourdan, Robbert Krebbers, Derek Dreyer
12:00 - 12:30:	PLMW 2017 - Session 2 at L1
12:00 - 12:30 Talk	Not How To Do Your PhD Gabriel Scherer
12:00 - 12:30:	Scheme 2017 - Session 3 at L4
12:00 - 12:30 Talk	Panel: Future of Scheme François-René Rideau, Marc Feeley, Arthur Gleckler, Kathy Gray, Alaric Snell-Pym, Andy W.
12:25 - 14:00:	Catering - Sunday lunch at Catering
12:25 - 14:00 Lunch	Sunday lunch
14:00 - 15:00:	Tutorials - Afternoon tutorial session 1 at L5
14:00 - 15:00 Talk	Tutorial T2: Certified Functional (Co)programming with Isabelle/HOL  Jasmin Blanchette, Andreas Lochbihler, Andrei Popescu, Dmitriy Traytel
14:00 - 15:00:	HOPE 2017 - Effects and Dependent Types at L3
14:00 - 14:30 Talk	Handling fibred algebraic effects  Danel Ahman
14:30 - 15:00 Talk	Only Control Effects and Dependent Types  Youyou Cong, William J. Bowman
14:00 - 15:00:	TyDe 2017 - Full papers 2 at L2
14:00 - 14:30 Talk	Type safe Redis queries a case study of type-level programming in Haskell Ting-Yan Lai, Tyng-Ruey Chuang, Shin-Cheng Mu
14:30 - 15:00 Talk	Type-directed diffing of structured data  Victor Cacciari Miraldo, Pierre-Evariste Dagand, Wouter Swierstra
14:00 - 15:00:	PLMW 2017 - Session 3 at L1
14:00 - 14:30 Talk	Gradual Typing  Ronald Garcia
14:30 - 15:00 Talk	Scala: Types in Theory & Practice  Nada Amin
14:00 - 15:00:	Scheme 2017 - Session 4 at L4
14:00 - 14:45 Talk	Paper: Toward Parallelizing Control-flow Analysis with Datalog  Thomas Gilray, Sidharth Kumar
14:45 - 15:00 Talk	Lightning: Gerbil on Gambit, as they say Racket on Chez  Dimitris Vyzovitis

14:50 - 15:30:	Catering - Sunday coffee break 3 at Catering
14:50 - 15:30 Coffee break	Sunday coffee break 3
15:30 - 16:20:	Tutorials - Afternoon tutorial session 2 at L5
15:30 - 16:20 Talk	Tutorial T2: Certified Functional (Co)programming with Isabelle/HOL (part 2)  Jasmin Blanchette, Andreas Lochbihler, Andrei Popescu, Dmitriy Traytel
15:30 - 16:30:	HOPE 2017 - Effects at L3
15:30 - 16:00 Talk	Programming a Web Server with Algebraic Effects  Daan Leijen
16:00 - 16:30 Talk	Logical Relations for Algebraic Effects  Dariusz Biernacki, Maciej Piróg, Piotr Polesiuk, Filip Sieczkowski
15:30 - 16:20:	TyDe 2017 - Extended abstracts 2 at L2
15:30 - 15:55 Talk	Affine killing Kiko Fernandez-Reyes, Dave Clarke
15:55 - 16:20 Talk	On ringads and foldables  James McKinna
15:30 - 16:30:	PLMW 2017 - Session 4 at L1
15:30 - 16:30 Talk	How to Write Papers and Give Talks That People Can Follow  Derek Dreyer
15:30 - 16:30:	Scheme 2017 - Session 5 at L4
15:30 - 16:15 Talk	Report: Status of the ongoing R7RS standardization process  Alaric Snell-Pym
16:15 - 16:30 Talk	Lightning: {lambda talk}  Alain Marty
16:20 - 16:50:	Catering - Sunday coffee break 4 at Catering
16:20 - 16:50 Coffee break	Sunday coffee break 4
16:50 - 17:50:	Tutorials - Afternoon tutorial session 3 at L5
16:50 - 17:50	Tutorial T2: Certified Functional (Co)programming with Isabelle/HOL (part 3)  Jasmin Blanchette, Andreas Lochbihler, Andrei Popescu, Dmitriy Traytel
Talk	,
	TyDe 2017 - Extended abstracts 3 at L2
Talk  16:50 - 17:40:  16:50 - 17:15  Talk	

16:50 - 17:40:	HOPE 2017 - Monotonicity at   L3
16:50 - 17:20 Talk	Recalling a Witness Danel Ahman, Cătălin Hriţcu, Kenji Maillard, Aseem Rastogi, Nikhil Swamy, Cédric Fournet
16:50 - 17:40:	PLMW 2017 - Session 5 at L1
16:50 - 17:40 Talk	Panel Discussion: Careers in Programming Languages Sam Staton, Richard A. Eisenberg, Andreas Rossberg, Daan Leijen, Amal Ahmed
16:50 - 17:50:	Scheme 2017 - Session 6 at L4
16:50 - 17:40 Talk	Invited Talk  Matthew Might
17:40 - 17:50 Day closing	Goodbye
on 4 Sep	
09:00 - 10:00: Chair(s): Jerem	Keynotes and Reports - Monday Keynote at L1
09:00 - 10:00 Talk	Compositional creativity: some principles for talking to computers  Chris Martens  KEYNOTE
	Cilis Walters
10:00 - 10:30:	Catering - Monday coffee break 1 at Catering
10:00 - 10:30: 10:00 - 10:30 Coffee break	
10:00 - 10:30 Coffee break	Catering - Monday coffee break 1 at Catering  Monday coffee break 1  Research Papers - Art and Education at L1
10:00 - 10:30 Coffee break 10:30 - 12:00:	Catering - Monday coffee break 1 at Catering  Monday coffee break 1  Research Papers - Art and Education at L1
10:00 - 10:30 Coffee break 10:30 - 12:00: Chair(s): Kathry 10:30 - 10:52	Catering - Monday coffee break 1 at Catering  Monday coffee break 1  Research Papers - Art and Education at L1  In E. Gray  Super 8 Languages for Making Movies (Functional Pearl)
10:00 - 10:30 Coffee break 10:30 - 12:00: Chair(s): Kathry 10:30 - 10:52 Talk 10:52 - 11:15	Catering - Monday coffee break 1 at Catering  Monday coffee break 1  Research Papers - Art and Education at L1  In E. Gray  Super 8 Languages for Making Movies (Functional Pearl)  Leif Andersen, Stephen Chang, Matthias Felleisen  Testing and Debugging Functional Reactive Programming
10:00 - 10:30 Coffee break 10:30 - 12:00: Chair(s): Kathry 10:30 - 10:52 Talk 10:52 - 11:15 Talk 11:15 - 11:37	Catering - Monday coffee break 1 at Catering  Monday coffee break 1  Research Papers - Art and Education at L1 In E. Gray  Super 8 Languages for Making Movies (Functional Pearl) Leif Andersen, Stephen Chang, Matthias Felleisen  Testing and Debugging Functional Reactive Programming Ivan Perez, Henrik Nilsson  Lock-Step Simulation Is Child's Play (Experience Report) Joachim Breitner, Chris Smith
10:00 - 10:30 Coffee break  10:30 - 12:00: Chair(s): Kathry  10:30 - 10:52 Talk  10:52 - 11:15 Talk  11:15 - 11:37 Talk  11:37 - 12:00 Talk	Catering - Monday coffee break 1 at Catering  Monday coffee break 1  Research Papers - Art and Education at L1 In E. Gray  Super 8 Languages for Making Movies (Functional Pearl) Leif Andersen, Stephen Chang, Matthias Felleisen  Testing and Debugging Functional Reactive Programming Ivan Perez, Henrik Nilsson  Lock-Step Simulation Is Child's Play (Experience Report) Joachim Breitner, Chris Smith  Scaling up Functional Programming Education: Under the Hood of the OCaml MOOG
10:00 - 10:30 Coffee break 10:30 - 12:00: Chair(s): Kathry 10:30 - 10:52 Talk 10:52 - 11:15 Talk 11:15 - 11:37 Talk 11:37 - 12:00 Talk	Catering - Monday coffee break 1 at Catering  Monday coffee break 1  Research Papers - Art and Education at L1 In E. Gray  Super 8 Languages for Making Movies (Functional Pearl) Leif Andersen, Stephen Chang, Matthias Felleisen  Testing and Debugging Functional Reactive Programming Ivan Perez, Henrik Nilsson  Lock-Step Simulation Is Child's Play (Experience Report) Joachim Breitner, Chris Smith  Scaling up Functional Programming Education: Under the Hood of the OCaml MOOd Benjamin Canou, Roberto Di Cosmo, Grégoire Henry
10:00 - 10:30 Coffee break  10:30 - 12:00: Chair(s): Kathry  10:30 - 10:52 Talk  10:52 - 11:15 Talk  11:15 - 11:37 Talk  11:37 - 12:00 Talk  10:30 - 10:45 Other	Catering - Monday coffee break 1 at Catering  Monday coffee break 1  Research Papers - Art and Education at L1  n E. Gray  Super 8 Languages for Making Movies (Functional Pearl)  Leif Andersen, Stephen Chang, Matthias Felleisen  Testing and Debugging Functional Reactive Programming  Ivan Perez, Henrik Nilsson  Lock-Step Simulation Is Child's Play (Experience Report)  Joachim Breitner, Chris Smith  Scaling up Functional Programming Education: Under the Hood of the OCaml MOOR  Benjamin Canou, Roberto Di Cosmo, Grégoire Henry  FSCD 2017 - Welcome at L2  Welcome message

	Monday lunch
.unch	
13:00 - 14:30: Chair(s): Graha	Research Papers - Functional Programming Techniques at L1 m Hutton
.3:00 - 13:22 ГаІк	Faster Coroutine Pipelines  Mike Spivey
.3:22 - 13:45 ГаІк	A Pretty But Not Greedy Printer (Functional Pearl)  Jean-Philippe Bernardy
l3:45 - 14:07 Гаlk	Generic Functional Parallel Algorithms: Scan and FFT  Conal Elliott
L4:07 - 14:30 ГаІк	A Unified Approach to Solving Seven Programming Problems (Functional Pearl)  William E. Byrd, Michael Ballantyne, Gregory Rosenblatt, Matthew Might
l3:00 - 14:30:	FSCD 2017 - Session 2 at L2
13:00 - 13:30 Talk	Polynomial running times for polynomial-time oracle machines  Akitoshi Kawamura, Florian Steinberg
l3:30 - 14:00 Talk	A Curry-Howard Approach to Church's Synthesis  Colin Riba, Pierre Pradic
14:00 - 14:30 Talk	Streett Automata Model Checking of Higher-Order Recursion Schemes Ryota Suzuki, Koichi Fujima, Naoki Kobayashi, Takeshi Tsukada
L4:30 - 15:00:	Catering - Monday coffee break 2 at Catering
L4:30 - 15:00 Coffee break	Monday coffee break 2
	Research Papers - Applications at L1
Silali (3). Alexal	ndra Silva
15:00 - 15:23 Talk	Prototyping a Query Compiler using Coq (Experience Report)  Joshua Auerbach, Martin Hirzel, Louis Mandel, Avraham Shinnar, Jerome Simeon
15:00 - 15:23	Prototyping a Query Compiler using Coq (Experience Report)
L5:00 - 15:23 Falk L5:23 - 15:46 Falk L5:46 - 16:10	Prototyping a Query Compiler using Coq (Experience Report)  Joshua Auerbach, Martin Hirzel, Louis Mandel, Avraham Shinnar, Jerome Simeon  A Framework for Adaptive Differential Privacy
5:00 - 15:23 Falk 5:23 - 15:46 Falk 5:46 - 16:10 Falk	Prototyping a Query Compiler using Coq (Experience Report)  Joshua Auerbach, Martin Hirzel, Louis Mandel, Avraham Shinnar, Jerome Simeon  A Framework for Adaptive Differential Privacy  Daniel Winograd-Cort, Andreas Haeberlen, Aaron Roth, Benjamin C. Pierce  Symbolic Conditioning of Arrays in Probabilistic Programs
.5:00 - 15:23 Falk .5:23 - 15:46 Falk .5:46 - 16:10 Falk .5:00 - 16:00:	Prototyping a Query Compiler using Coq (Experience Report)  Joshua Auerbach, Martin Hirzel, Louis Mandel, Avraham Shinnar, Jerome Simeon  A Framework for Adaptive Differential Privacy  Daniel Winograd-Cort, Andreas Haeberlen, Aaron Roth, Benjamin C. Pierce  Symbolic Conditioning of Arrays in Probabilistic Programs  Praveen Narayanan, Chung-chieh Shan
5:00 - 15:23  Talk  5:23 - 15:46  Talk  5:46 - 16:10  Talk  15:00 - 16:00:  5:00 - 15:30  Talk  5:30 - 16:00	Prototyping a Query Compiler using Coq (Experience Report)  Joshua Auerbach, Martin Hirzel, Louis Mandel, Avraham Shinnar, Jerome Simeon  A Framework for Adaptive Differential Privacy  Daniel Winograd-Cort, Andreas Haeberlen, Aaron Roth, Benjamin C. Pierce  Symbolic Conditioning of Arrays in Probabilistic Programs  Praveen Narayanan, Chung-chieh Shan  FSCD 2017 - Session 3 at L2  Relating System F and λ2: A Case Study in Coq, Abella and Beluga
15:00 - 15:23 Talk 15:23 - 15:46 Talk 15:46 - 16:10 Talk 15:00 - 16:00: 15:00 - 15:30 Talk 15:30 - 16:00 Talk	Prototyping a Query Compiler using Coq (Experience Report)  Joshua Auerbach, Martin Hirzel, Louis Mandel, Avraham Shinnar, Jerome Simeon  A Framework for Adaptive Differential Privacy Daniel Winograd-Cort, Andreas Haeberlen, Aaron Roth, Benjamin C. Pierce  Symbolic Conditioning of Arrays in Probabilistic Programs Praveen Narayanan, Chung-chieh Shan  FSCD 2017 - Session 3 at L2  Relating System F and λ2: A Case Study in Coq, Abella and Beluga Jonas Kaiser, Brigitte Pientka, Gert Smolka  Nested Multisets, Hereditary Multisets, and Syntactic Ordinals in Isabelle/HOL

Program - ICFP 2017
Research Papers - Effects at L1 ppmeier
Abstracting Definitional Interpreters  David Darais, Nicholas Labich, Phúc C. Nguyễn, David Van Horn
On the Expressive Power of User-Defined Effects: Effect Handlers, Monadic Reflection, Delimited Control  Yannick Forster, Ohad Kammar, Sam Lindley, Matija Pretnar
Imperative Functional Programs That Explain Their Work Wilmer Ricciotti, Jan Stolarek, Roly Perera, James Cheney
Effect-Driven QuickChecking of Compilers  Jan Midtgaard, Mathias Nygaard Justesen, Patrick Kasting, Flemming Nielson, Hanne Riis Nielson
FSCD 2017 - Session 4 at L2
A polynomial-time algorithm for the Lambek calculus with brackets of bounded order Max Kanovich, Stepan Kuznetsov, Glyn Morrill, Andre Scedrov
A sequent calculus for semi-associativity  Noam Zeilberger
Combinatorial Flows and their Normalisation  Lutz Strassburger
Keynotes and Reports - Monday Closing Events at L1 hiemann
Monday Announcements
Social Events - Welcome Reception at Foyer
Welcome Reception
Keynotes and Reports - Tuesday Keynote at L1
Assuring Al John Launchbury  KEYNOTE
Catering - Tuesday coffee break 1 at Catering
Tuesday coffee break 1

	obin-Hochstadt
10:30 - 10:52 Talk	Persistence for the Masses: RRB-Vectors in a Systems Language  Juan Pedro Bolívar Puente
10:52 - 11:15 Talk	Verified Low-Level Programming Embedded in F* Jonathan Protzenko, Jean-Karim Zinzindohoué, Aseem Rastogi, Tahina Ramananandro, Pen Wang, Santiago Zanella-Béguelin, Antoine Delignat-Lavaud, Cătălin Hriţcu, Karthikeyan Bhargavan, Cédric Fournet, Nikhil Swamy
11:15 - 11:37 Talk	Verifying Efficient Function Calls in CakeML Scott Owens, Michael Norrish, Ramana Kumar, Magnus O. Myreen, Yong Kiam Tan
11:37 - 12:00 Talk	Better Living through Operational Semantics: An Optimizing Compiler for Radio Protocols  Geoffrey Mainland
10:30 - 11:30:	FSCD 2017 - Session 5 at L2
10:30 - 11:30 Talk	Uniform Resource Analysis by Rewriting: Strenghts and Weaknesses  Georg Moser
11:30 - 12:00:	FSCD 2017 - Session 6 at L2
11:30 - 12:00 Talk	Continuation Passing Style for Effect Handlers  Daniel Hillerström, Sam Lindley, Bob Atkey, KC Sivaramakrishnan
12:00 - 13:00:	Catering - Tuesday lunch at Catering
12:00 - 13:00	
	Tuesday lunch
Lunch 13:00 - 14:30:	Research Papers - Foundations of Higher-Order Programming at L1
Lunch 13:00 - 14:30: Chair(s): Gabrie	Research Papers - Foundations of Higher-Order Programming at L1
Lunch  13:00 - 14:30: Chair(s): Gabrie  13:00 - 13:22  Talk	Research Papers - Foundations of Higher-Order Programming at L1  El Scherer  How to Prove Your Calculus Is Decidable: Practical Applications of Second-Order Algebraic Theories and Computation
Lunch  13:00 - 14:30: Chair(s): Gabrie  13:00 - 13:22  Talk  13:22 - 13:45  Talk  13:45 - 14:07	Research Papers - Foundations of Higher-Order Programming at L1  El Scherer  How to Prove Your Calculus Is Decidable: Practical Applications of Second-Order Algebraic Theories and Computation  Makoto Hamana  A Relational Logic for Higher-Order Programs
Lunch  13:00 - 14:30: Chair(s): Gabrie  13:00 - 13:22  Talk  13:22 - 13:45  Talk  13:45 - 14:07  Talk	Research Papers - Foundations of Higher-Order Programming at L1  How to Prove Your Calculus Is Decidable: Practical Applications of Second-Order Algebraic Theories and Computation  Makoto Hamana  A Relational Logic for Higher-Order Programs  Alejandro Aguirre, Gilles Barthe, Marco Gaboardi, Deepak Garg, Pierre-Yves Strub  Foundations of Strong Call by Need
Lunch  13:00 - 14:30: Chair(s): Gabrie  13:00 - 13:22  Talk  13:22 - 13:45  Talk  13:45 - 14:07  Talk  14:07 - 14:30  Talk	Research Papers - Foundations of Higher-Order Programming at L1  El Scherer  How to Prove Your Calculus Is Decidable: Practical Applications of Second-Order Algebraic Theories and Computation  Makoto Hamana  A Relational Logic for Higher-Order Programs  Alejandro Aguirre, Gilles Barthe, Marco Gaboardi, Deepak Garg, Pierre-Yves Strub  Foundations of Strong Call by Need  Thibaut Balabonski, Pablo Barenbaum, Eduardo Bonelli, Delia Kesner  No-Brainer CPS Conversion
Lunch  13:00 - 14:30: Chair(s): Gabrie  13:00 - 13:22  Talk  13:22 - 13:45  Talk  13:45 - 14:07  Talk  14:07 - 14:30  Talk  13:00 - 14:30:	Research Papers - Foundations of Higher-Order Programming at  How to Prove Your Calculus Is Decidable: Practical Applications of Second-Order Algebraic Theories and Computation  Makoto Hamana  A Relational Logic for Higher-Order Programs  Alejandro Aguirre, Gilles Barthe, Marco Gaboardi, Deepak Garg, Pierre-Yves Strub  Foundations of Strong Call by Need  Thibaut Balabonski, Pablo Barenbaum, Eduardo Bonelli, Delia Kesner  No-Brainer CPS Conversion  Milo Davis, William Meehan, Olin Shivers
Lunch  13:00 - 14:30: Chair(s): Gabrie  13:00 - 13:22  Talk  13:22 - 13:45  Talk  13:45 - 14:07  Talk  14:07 - 14:30  Talk	Research Papers - Foundations of Higher-Order Programming at L1 el Scherer  How to Prove Your Calculus Is Decidable: Practical Applications of Second-Order Algebraic Theories and Computation  Makoto Hamana  A Relational Logic for Higher-Order Programs  Alejandro Aguirre, Gilles Barthe, Marco Gaboardi, Deepak Garg, Pierre-Yves Strub  Foundations of Strong Call by Need  Thibaut Balabonski, Pablo Barenbaum, Eduardo Bonelli, Delia Kesner  No-Brainer CPS Conversion  Milo Davis, William Meehan, Olin Shivers  FSCD 2017 - Session 7 at L2  Confluence of an extension of Combinatory Logic by Boolean constants

14:30 - 15:00:	
	Catering - Tuesday coffee break 2 at Catering
14:30 - 15:00 Coffee break	Tuesday coffee break 2
15:00 - 16:00:	FSCD 2017 - Session 8 at L2
15:00 - 15:30 Talk	Is the optimal implementation inefficient? Elementarily not Stefano Guerrini, Marco Solieri
15:30 - 16:00 Talk	Optimality and the Linear Substitution Calculus  Pablo Barenbaum, Eduardo Bonelli
15:00 - 16:10: Chair(s): Nikhil	Research Papers - Tools for Verification at L1 Swamy
15:00 - 15:23 Talk	Kami: A Platform for High-Level Parametric Hardware Specification and Its Modula Verification Joonwon Choi, Muralidaran Vijayaraghavan, Benjamin Sherman, Adam Chlipala, Arvind
15:23 - 15:46 Talk	SpaceSearch: A Library for Building and Verifying Solver-Aided Tools  Konstantin Weitz, Steven Lyubomirsky, Stefan Heule, Emina Torlak, Michael D. Ernst, Zachar  Tatlock
15:46 - 16:10 Talk	Local Refinement Typing  Benjamin Cosman, Ranjit Jhala
16:10 - 16:40:	Catering - Tuesday coffee break 3 at Catering
16:10 - 16:40 Coffee break	Tuesday coffee break 3
16:40 - 17:50: Chair(s): John H	Research Papers - Program Construction at L1
Chair(s): John F	Hughes  Compiling to Categories
Chair(s): John H  16:40 - 17:03  Talk  17:03 - 17:26	Compiling to Categories  Conal Elliott  Visitors Unchained
Chair(s): John H  16:40 - 17:03  Talk  17:03 - 17:26  Talk  17:26 - 17:50  Talk	Compiling to Categories  Conal Elliott  Visitors Unchained  François Pottier  Staged Generic Programming
Chair(s): John H  16:40 - 17:03  Talk  17:03 - 17:26  Talk  17:26 - 17:50  Talk	Compiling to Categories  Conal Elliott  Visitors Unchained  François Pottier  Staged Generic Programming  Jeremy Yallop
Chair(s): John H  16:40 - 17:03  Talk  17:03 - 17:26  Talk  17:26 - 17:50  Talk  16:40 - 18:10:	Compiling to Categories Conal Elliott  Visitors Unchained François Pottier  Staged Generic Programming Jeremy Yallop  FSCD 2017 - Session 9 at L2  Generalized Refocusing: from Hybrid Strategies to Abstract Machines Malgorzata Biernacka, Witold Charatonik, Klara Zielińska
Chair(s): John H  16:40 - 17:03  Talk  17:03 - 17:26  Talk  17:26 - 17:50  Talk  16:40 - 18:10:  16:40 - 17:10  Talk  17:10 - 17:40	Compiling to Categories Conal Elliott  Visitors Unchained François Pottier  Staged Generic Programming Jeremy Yallop  FSCD 2017 - Session 9 at L2  Generalized Refocusing: from Hybrid Strategies to Abstract Machines Malgorzata Biernacka, Witold Charatonik, Klara Zielińska  Observably Deterministic Concurrent Strategies and Intensional Full Abstraction for Parallel-or
Chair(s): John H  16:40 - 17:03 Talk  17:03 - 17:26 Talk  17:26 - 17:50 Talk  16:40 - 18:10:  16:40 - 17:10 Talk  17:10 - 17:40 Talk  17:40 - 18:10 Talk	Compiling to Categories Conal Elliott  Visitors Unchained François Pottier  Staged Generic Programming Jeremy Yallop  FSCD 2017 - Session 9 at L2  Generalized Refocusing: from Hybrid Strategies to Abstract Machines Malgorzata Biernacka, Witold Charatonik, Klara Zielińska  Observably Deterministic Concurrent Strategies and Intensional Full Abstraction for Parallel-or Simon Castellan, Pierre Clairambault, Glynn Winskel  Refutation of Sallé's Longstanding Conjecture

Wed 6 Sep

Awards	Student Research Competition: Finalist Presentations
09:00 - 10:00:	FSCD 2017 - Session 10 at L2
09:00 - 10:00 Talk	Quantitative semantics for probabilistic programming  Christine Tasson
09:37 - 10:00: Chair(s): Martin	Research Papers - Domain-Specific Languages at L1  Erwig
09:37 - 10:00 Talk	Herbarium Racketensis: A Stroll through the Woods (Functional Pearl)  Vincent St-Amour, Daniel Feltey, Spencer P. Florence, Shu-Hung You, Robby Findler
10:00 - 10:30:	Catering - Wednesday coffee break 1 at Catering
10:00 - 10:30 Coffee break	Wednesday coffee break 1
10:30 - 12:00: Chair(s): Dan Li	Research Papers - Dependently Typed Programming at L1
10:30 - 10:52 Talk	A Specification for Dependent Types in Haskell Stephanie Weirich, Antoine Voizard, Pedro Henrique Azevedo de Amorim, Richard A. Eisenb
10:52 - 11:15 Talk	Parametric Quantifiers for Dependent Type Theory  Andreas Nuyts, Andrea Vezzosi, Dominique Devriese
11:15 - 11:37 Talk	Normalization by Evaluation for Sized Dependent Types  Andreas Abel, Andrea Vezzosi, Theo Winterhalter
11:37 - 12:00	A Metaprogramming Framework for Formal Verification  Gabriel Ebner, Sebastian Ullrich, Jared Roesch, Jeremy Avigad, Leonardo De Moura
Talk	FSCD 2017 - Session 11 at L2
	Displayed categories  Benedikt Ahrens, Peter Lefanu Lumsdaine
<b>10:30 - 12:00:</b> 10:30 - 11:00 Talk 11:00 - 11:30	
<b>10:30 - 12:00:</b> 10:30 - 11:00	Benedikt Ahrens, Peter Lefanu Lumsdaine  List Objects with Algebraic Structure

13:00 - 13:22 Talk	Chaperone Contracts for Higher-Order Sessions
13:22 - 13:45 Talk	Hernan Melgratti, Luca Padovani  Whip: Higher-Order Contracts for Modern Services  Lucas Waye, Christos Dimoulas, Stephen Chong
13:45 - 14:07 Talk	Manifest Sharing with Session Types  Stephanie Balzer, Frank Pfenning
14:07 - 14:30 Talk	Gradual Session Types  Atsushi Igarashi, Peter Thiemann, Vasco Vasconcelos, Philip Wadler
13:00 - 14:30:	FSCD 2017 - Session 12 at L2
13:00 - 13:30 Talk	A Fibrational Framework for Substructural and Modal Logics  Dan Licata, Michael Shulman, Mitchell Riley
13:30 - 14:00 Talk	Dinaturality between syntax and semantics  Paolo Pistone
14:00 - 14:30 Talk	Models of Type Theory Based on Moore Paths  Andrew Pitts, Ian Orton
14:30 - 15:00:	Catering - Wednesday coffee break 2 at Catering
14:30 - 15:00	Catering - Wednesday coffee break 2 at Catering  Wednesday coffee break 2
14:30 - 15:00 Coffee break 15:00 - 16:10:	Wednesday coffee break 2  Research Papers - Integrating Static and Dynamic Typing at L1
14:30 - 15:00 Coffee break 15:00 - 16:10: Chair(s): Ronald	Wednesday coffee break 2  Research Papers - Integrating Static and Dynamic Typing at L1
14:30 - 15:00 Coffee break	Wednesday coffee break 2  Research Papers - Integrating Static and Dynamic Typing at L1  Garcia  Theorems for Free for Free: Parametricity, With and Without Types
14:30 - 15:00 Coffee break 15:00 - 16:10: Chair(s): Ronald 15:00 - 15:23 Talk	Wednesday coffee break 2  Research Papers - Integrating Static and Dynamic Typing at L1  I Garcia  Theorems for Free for Free: Parametricity, With and Without Types  Amal Ahmed, Dustin Jamner, Jeremy G. Siek, Philip Wadler  On Polymorphic Gradual Typing
14:30 - 15:00 Coffee break 15:00 - 16:10: Chair(s): Ronald 15:00 - 15:23 Talk 15:23 - 15:46 Talk 15:46 - 16:10 Talk	Wednesday coffee break 2  Research Papers - Integrating Static and Dynamic Typing at L1  I Garcia  Theorems for Free for Free: Parametricity, With and Without Types  Amal Ahmed, Dustin Jamner, Jeremy G. Siek, Philip Wadler  On Polymorphic Gradual Typing  Yuu Igarashi, Taro Sekiyama, Atsushi Igarashi  Gradual Typing with Union and Intersection Types
14:30 - 15:00 Coffee break 15:00 - 16:10: Chair(s): Ronald 15:00 - 15:23 Talk 15:23 - 15:46 Talk 15:46 - 16:10 Talk 15:00 - 16:00:	Wednesday coffee break 2  Research Papers - Integrating Static and Dynamic Typing at L1  I Garcia  Theorems for Free for Free: Parametricity, With and Without Types  Amal Ahmed, Dustin Jamner, Jeremy G. Siek, Philip Wadler  On Polymorphic Gradual Typing  Yuu Igarashi, Taro Sekiyama, Atsushi Igarashi  Gradual Typing with Union and Intersection Types  Giuseppe Castagna, Victor Lanvin
14:30 - 15:00 Coffee break 15:00 - 16:10: Chair(s): Ronald 15:00 - 15:23 Talk 15:23 - 15:46 Talk 15:46 - 16:10 Talk	Wednesday coffee break 2  Research Papers - Integrating Static and Dynamic Typing at L1 I Garcia  Theorems for Free for Free: Parametricity, With and Without Types  Amal Ahmed, Dustin Jamner, Jeremy G. Siek, Philip Wadler  On Polymorphic Gradual Typing  Yuu Igarashi, Taro Sekiyama, Atsushi Igarashi  Gradual Typing with Union and Intersection Types  Giuseppe Castagna, Victor Lanvin  FSCD 2017 - Session 13 at L2  Böhm Reduction in Infinitary Term Graph Rewriting Systems

16:40 - 17:50:	
Chair(s): Mark Jo	Research Papers - Inference and Analysis at L1 ones
16:40 - 17:03 Talk	Constrained Type Families  J. Garrett Morris, Richard A. Eisenberg
17:03 - 17:26 Talk	Automating Sized-Type Inference for Complexity Analysis  Martin Avanzini, Ugo Dal Lago
17:26 - 17:50 Talk	Inferring Scope through Syntactic Sugar  Justin Pombrio, Shriram Krishnamurthi, Mitchell Wand
16:40 - 17:10:	FSCD 2017 - Session 14 at L2
16:40 - 17:10 Talk	Negative Translations and Normal Modality  Tadeusz Litak, Miriam Polzer, Ulrich Rabenstein
17:10 - 17:20:	FSCD 2017 - Termination and Complexity Competition 2017 at L2
17:10 - 17:20 Other	Termination and Complexity Competition 2017  Jürgen Giesl, Albert Rubio, Johannes Waldmann, Akihisa Yamada
17:20 - 18:10:	FSCD 2017 - FSCD General Meeting at L2
17:20 - 18:10 Meeting	FSCD General Meeting
17:50 - 18:00: Chair(s): Ilya Ser	Student Research Competition - SRC Awards at L1
17:50 - 18:00 Awards	Student Research Competition Awards  Ilya Sergey
18:00 - 18:20:	Keynotes and Reports - Wednesday Closing Events at L1
18:00 - 18:10	Day of the Day of
Talk	Program Chair's Report  Mark Jones
Talk 18:10 - 18:20 Talk	·
18:10 - 18:20 Talk	Mark Jones ICFP 2018 Announcement
18:10 - 18:20 Talk	Mark Jones  ICFP 2018 Announcement  Robby Findler
18:10 - 18:20 Talk  18:30 - 22:30:  18:30 - 22:30  Social Event	Mark Jones  ICFP 2018 Announcement Robby Findler  Social Events - Banquet at Weston Library
18:10 - 18:20 Talk  18:30 - 22:30:  18:30 - 22:30 Social Event  u 7 Sep	Mark Jones  ICFP 2018 Announcement Robby Findler  Social Events - Banquet at Weston Library  Banquet  CUFP 2017 - CUFP Tutorials C1 at L6
18:10 - 18:20 Talk  18:30 - 22:30:  18:30 - 22:30 Social Event  u 7 Sep  09:00 - 10:00:	Mark Jones  ICFP 2018 Announcement Robby Findler  Social Events - Banquet at Weston Library  Banquet  CUFP 2017 - CUFP Tutorials C1 at L6
18:10 - 18:20  Talk  18:30 - 22:30:  18:30 - 22:30  Social Event  u 7 Sep  09:00 - 10:00: Chair(s): Runhar  09:00 - 10:00  Other	Mark Jones  ICFP 2018 Announcement Robby Findler  Social Events - Banquet at Weston Library  Banquet  CUFP 2017 - CUFP Tutorials C1 at L6 Ing Li  Tutorial C1: Online Applications with Incremental Yaron Minsky, Sebastian Funk  CUFP 2017 - CUFP Tutorials C2 at L5

09:00 - 10:00: Haskell 2017 - Day 1, Session 1 at | L1 | 09:00 - 10:00 Ornaments: exploiting parametricity for safer, more automated code refactorization Talk and code reuse (Invited Talk) Didier Rémy 09:00 - 10:00: FSCD 2017 - Session 15 at L2 09:00 - 10:00 Type systems for the relational verification of higher order programs Talk Marco Gaboardi 09:00 - 09:05: ML 2017 - Welcome at L3 Chair(s): Sam Lindley 09:00 - 09:05 Welcome Day opening 09:00 - 09:10: FHPC 2017 - Welcome to FHPC'17 at L4 09:00 - 09:10 Welcome to FHPC'17 Day opening Phil Trinder, Cosmin Oancea 09:05 - 10:00: ML 2017 - Invited talk at | L3 | Chair(s): Sam Lindley 09:05 - 10:00 State machines all the way down Talk Edwin Brady 09:10 - 10:10: FHPC 2017 - First Keynote at L4 Chair(s): Kevin Hammond 09:10 - 10:10 Haskell in the Datacentre Talk Simon Marlow 10:00 - 10:30: Catering - Thursday coffee break 1 at Catering 10:00 - 10:30 Thursday coffee break 1 Coffee break 10:30 - 11:30: CUFP 2017 - CUFP Tutorials C1 at L6 10:30 - 11:30 Tutorial C1: Online Applications with Incremental (part 2) Talk Yaron Minsky, Sebastian Funk 10:30 - 11:30: CUFP 2017 - CUFP Tutorials C2 at | L5 10:30 - 11:30 Tutorial C2: Extensible Effects: understanding them, implementing them, using them Talk (part 2) Oleg Kiselyov

10:30 - 11:00	inder  From High Javal Badio Protocal Specifications to Efficient Low Javal Implementation
Talk	From High-level Radio Protocol Specifications to Efficient Low-level Implementation  Geoffrey Mainland, Siddhanathan Shanmugam
11:00 - 11:30 Talk	Destination-Passing Style for Efficient Memory Management  Amir Shaikhha, Andrew Fitzgibbon, Simon Peyton Jones, Dimitrios Vytiniotis
10:30 - 11:30:	Haskell 2017 - Day 1, Session 2 at L1
10:30 - 11:00 Talk	Algebraic Graphs with Class (Functional Pearl)  Andrey Mokhov
11:00 - 11:30 Talk	Packrats Parse in Packs Mario Blažević, Jacques Légaré
10:30 - 11:59:	FSCD 2017 - Session 16 at L2
10:30 - 11:00 Talk	Arrays and References in Resource Aware ML Benjamin Lichtman, Jan Hoffmann
11:00 - 11:30 Talk	The Complexity of Principal Inhabitation  Andrej Dudenhefner, Jakob Rehof
11:30 - 11:59 Talk	Types as Resources for Classical Natural Deduction  Delia Kesner, Pierre Vial
10:30 - 11:45:	ML 2017 - Types and modules at L3
10:30 - 10:55 Talk	Mergeable types Gowtham Kaki, KC Sivaramakrishnan, Samodya Abeysiriwardane, Suresh Jagannathan
10:55 - 11:20 Talk	Tierless modules Gabriel Radanne, Jérôme Vouillon
11:20 - 11:45 Talk	First-class subtypes  Jeremy Yallop, Stephen Dolan
11.20 12.00.	Catering - Thursday coffee break 2 at Catering
11.20 - 12.00.	
11:20 - 12:00. 11:20 - 12:00 Coffee break	Thursday coffee break 2
11:20 - 12:00 Coffee break	Thursday coffee break 2  CUFP 2017 - CUFP Tutorials C1 at L6
11:20 - 12:00 Coffee break	
11:20 - 12:00 Coffee break 12:00 - 12:30: 12:00 - 12:30 Talk	CUFP 2017 - CUFP Tutorials C1 at L6  Tutorial C1: Online Applications with Incremental (part 3)
11:20 - 12:00 Coffee break 12:00 - 12:30: 12:00 - 12:30 Talk	CUFP 2017 - CUFP Tutorials C1 at L6  Tutorial C1: Online Applications with Incremental (part 3)  Yaron Minsky, Sebastian Funk

12:00 - 12:30: FHPC 2017 - Tools at L4 Chair(s): Cosmin Oancea  12:00 - 12:30: VisPar: Visualising dataflow graphs from the Par monad Maximilian Algehed, Patrik Jansson  12:00 - 12:25: ML 2017 - Verification at L3  12:00 - 12:25: ML 2017 - Verification at L3  12:00 - 12:25: VOCAL a verified OCAmil Library Arthur Chargueraud, Jean-Christophe Filliatre, Mário Pereira, François Pottier  12:25 - 14:00: Catering - Thursday lunch at Catering  12:25 - 14:00: CutPp 2017 - CutPp Tutorials C3 at L5 Chair(s): Runhang Li  14:00 - 15:00: CutPp 2017 - CutPp Tutorials C3 at L6 Chair(s): Runhang Li  14:00 - 15:00: CutPp 2017 - CutPp Tutorials C4 at L6 Chair(s): Runhang Li  14:00 - 15:00: Tutorial C3: Concurrent Programming with Effect Handlers Daniel Hillerstörn, KC Sivaramekrishnan  14:00 - 15:00: Haskell 2017 - Day 1, Session 4 at L1  14:00 - 15:00: Haskell 2017 - Day 1, Session 4 at L1  14:00 - 15:00: Haskell 2017 - Day 1, Session 4 at L1  14:00 - 15:00: Maximilian Algehed, Koen Claessen, Moa Johansson, Nicholas Smallbone Demonstration Maximilian Algehed, Koen Claessen, Moa Johansson, Nicholas Smallbone Speculate: Discovering Conditional Equations and Inequalities about Black-Box Functions by Reasoning from Test Results Ruly Braquehais, Colin Runciman  14:00 - 15:00: FHPC 2017 - Parallel Programming at L4 Chair(s): Geoffrey Mainland  14:00 - 15:05: Strategies for Regular Segmented Reductions on GPU Rasmus Wired Laissen, Troels Herniksen  14:00 - 15:15: ML 2017 - Programming language design at L3  14:00 - 14:25 Typer: an Infix statically typed Lisp Piere Delauray, Vincent Archambauth-Bouflard, Stefan Monnier  14:20 - 14:25 Piere Delauray, Debt Maximush Pour Parallelism Monnier  14:20 - 14:25 Piere Delauray, Program Parallelism	201	0	Program - ICFP 2017
12:00 - 12:25			
12:00 - 12:25 Talk  Arthur Charguéraud, Jean-Christophe Filliatre, Mário Pereira, François Pottier  12:25 - 14:00: Catering - Thursday lunch at Catering  12:25 - 14:00 Thursday lunch Lunch  14:00 - 15:00: CUFP 2017 - CUFP Tutorials C3 at L5 Chair(s): Runhang Li  14:00 - 15:00: Tutorial C3: Concurrent Programming with Effect Handlers Other Daniel Hillerström, KC Sivaramakrishnan  14:00 - 15:00: CUFP 2017 - CUFP Tutorials C4 at L6 Chair(s): Runhang Li  14:00 - 15:00: Tutorial C4: Git under the hood with OCaml Romain Catasscibetta  14:00 - 15:00: Haskell 2017 - Day 1, Session 4 at L1  14:00 - 15:00: Haskell 2017 - Day 1, Session 4 at L1  14:00 - 15:00: Speculate: Discovering Conditional Equations and Inequalities about Black-Box Functions by Reasoning from Test Results Rudy Braquehais, Colin Runciman  14:00 - 15:00: FHPC 2017 - Parallel Programming at L4 Chair(s): Geoffrey Mainland  14:00 - 14:30 In Search of a Map: using Program Slicing to Discover Potential Parallelism in Recursive Functions Adam Barwell, Kevin Hammond  14:30 - 15:00 Talk Results Regular Segmented Reductions on GPU Rasmus Wriedt Larsen, Troels Henriksen  14:00 - 15:15: ML 2017 - Programming language design at L3  14:00 - 14:25 Typer: an infix statically typed Lisp Pierre Delaunay, Wincent Archambauli-Bouffard, Stefan Monnier  14:25 - 14:50 Relational conversion for OCaml			
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Chair(s): Runhang Li  14:00 - 15:00			Thursday lunch
Other  Daniel Hillerström, KC Sivaramakrishnan  14:00 - 15:00: CUFP 2017 - CUFP Tutorials C4 at L6  Chair(s): Runhang Li  14:00 - 15:00: Tutorial C4: Git under the hood with OCaml Romain Calascibetta  14:00 - 15:00: Haskell 2017 - Day 1, Session 4 at L1  14:00 - 14:30 Demonstration Demonstration Demonstration Maximilian Algehed, Koen Claessen, Moa Johansson, Nicholas Smallbone  14:30 - 15:00: Speculate: Discovering Conditional Equations and Inequalities about Black-Box Functions by Reasoning from Test Results Rudy Braquehais, Colin Runciman  14:00 - 15:00: FHPC 2017 - Parallel Programming at L4 Chair(s): Geoffrey Mainland  14:00 - 14:30 In Search of a Map: using Program Slicing to Discover Potential Parallelism in Recursive Functions Adam Barwell, Kevin Hammond  14:30 - 15:00 Talk Strategies for Regular Segmented Reductions on GPU Rasmus Wriedt Larsen, Troels Henriksen  14:00 - 15:15: ML 2017 - Programming language design at L3  14:00 - 14:25 Talk Pierre Delaunay, Vincent Archambault-Bouffard, Stefan Monnier  14:25 - 14:50 Relational conversion for OCaml			
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Chair(s): Geoffrey Mainland  14:00 - 14:30			Functions by Reasoning from Test Results
Recursive Functions  Adam Barwell, Kevin Hammond  14:30 - 15:00 Talk  14:00 - 15:15: ML 2017 - Programming language design at L3  14:00 - 14:25 Talk  Pierre Delaunay, Vincent Archambault-Bouffard, Stefan Monnier  14:25 - 14:50 Relational conversion for OCaml			
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Feti Lozov, Dilliti Bodiyicilev			Relational conversion for OCaml Petr Lozov, Dmitri Boulytchev
14:50 - 15:15 Towards abductive functional programming  Talk Koko Muroya			·

14:50 - 15:30:	Catering - Thursday coffee break 3 at Catering
14:50 - 15:30 Coffee break	Thursday coffee break 3
15:30 - 16:20:	CUFP 2017 - CUFP Tutorials C3 at L5
15:30 - 16:20 Talk	Tutorial C3: Concurrent Programming with Effect Handlers (part 2)  Daniel Hillerström, KC Sivaramakrishnan
15:30 - 16:20:	CUFP 2017 - CUFP Tutorials C4 at L6
15:30 - 16:20 Talk	Tutorial C4: Git under the hood with OCaml (part 2)  Romain Calascibetta
15:30 - 16:30:	Haskell 2017 - Day 1, Session 5 at L1
15:30 - 16:00 Talk	Using Coq to Write Fast and Correct Haskell  John Wiegley, Benjamin Delaware
16:00 - 16:30 Talk	A Tale of Two Provers: Verifying Monoidal String Matching in Liquid Haskell and Coq Niki Vazou, Leonidas Lampropoulos, Jeff Polakow
15:30 - 16:30: Chair(s): Cosmii	FHPC 2017 - Demo Session at L4 n Oancea
15:30 - 15:59 Demonstration	Futhark Demo Troels Henriksen
16:00 - 16:29 Demonstration	ParaFormance Demo: Democratizing Parallel Software Development Christopher Brown, Kevin Hammond
16:30 - 16:50 Social Event	Break 16:30 - 16:50: Wine and Nibbles @ North Mezzanine
15:30 - 16:20:	ML 2017 - Performance at L3
15:30 - 15:55 Talk	Making SML# a general-purpose high-performance language Atsushi Ohori, Kenjiro Taura, Katsuhiro Ueno
15:55 - 16:20 Talk	Efficient representation of large, dynamic sequences in ML Arthur Charguéraud, Mike Rainey
16:20 - 16:50:	Catering - Thursday coffee break 4 at Catering
16:20 - 16:50 Coffee break	Thursday coffee break 4
16:50 - 17:30:	CUFP 2017 - CUFP Tutorials C3 at L5
16:50 - 17:30 Talk	Tutorial C3: Concurrent Programming with Effect Handlers (part 3)  Daniel Hillerström, KC Sivaramakrishnan
16:50 - 17:30:	CUFP 2017 - CUFP Tutorials C4 at L6
16:50 - 17:30 Talk	Tutorial C4: Git under the hood with OCaml (part 3)  Romain Calascibetta

	Haskell 2017 - Day 1, Session 6 at L1
16:50 - 17:20 Talk	A Meta-EDSL for Distributed Web Applications  Anton Ekblad
17:20 - 17:50 Talk	Composable Network Stacks and Remote Monads  Justin Dawson, Mark Grebe, Andy Gill
16:50 - 17:50: Chair(s): Phil Tr	FHPC 2017 - Demo and Panel at L4
16:50 - 17:20 Demonstration	Ziria Demo: Wringing performance from high-level code Siddhanathan Shanmugam, Geoffrey Mainland
17:20 - 17:50 Day closing	Panel Discussion: The challenges for Functional High Performance Computing Geoffrey Mainland, Kevin Hammond, Simon Marlow
16:50 - 17:40:	ML 2017 - Effects at L3
16:50 - 17:15 Talk	Effects without monads: non-determinism  Oleg Kiselyov
17:15 - 17:40 Talk	Effectively tackling the awkward squad  Stephen Dolan, Spiros Eliopoulos, Daniel Hillerström, Anil Madhavapeddy, KC Sivaramakrishna Leo White
18:15 - 20:30:	Social Events - Industry Reception at Ashmolean Museum
18:15 - 20:30 Social Event	Industry Reception
i 8 Sep	
·	CUFP 2017 - CUFP Tutorials C5 at L6
09:00 - 10:00:	
09:00 - 10:00: Chair(s): Runha 09:00 - 10:00 Talk	Tutorial C5: Teaching Functional Programming  Michael Sperber  CUFP 2017 - CUFP Tutorials C6 at L5
09:00 - 10:00: Chair(s): Runha 09:00 - 10:00 Talk	Tutorial C5: Teaching Functional Programming  Michael Sperber  CUFP 2017 - CUFP Tutorials C6 at L5
09:00 - 10:00: Chair(s): Runha 09:00 - 10:00 Talk 09:00 - 10:00: Chair(s): Runha 09:00 - 10:00 Talk	Tutorial C5: Teaching Functional Programming  Michael Sperber  CUFP 2017 - CUFP Tutorials C6 at L5  ung Li  Tutorial C6: Transducers in Practice
09:00 - 10:00  Talk  09:00 - 10:00: Chair(s): Runha  09:00 - 10:00  Talk	Tutorial C5: Teaching Functional Programming  Michael Sperber  CUFP 2017 - CUFP Tutorials C6 at L5  Ing Li  Tutorial C6: Transducers in Practice  Renzo Borgatti
09:00 - 10:00: Chair(s): Runha  09:00 - 10:00 Talk  09:00 - 10:00 Chair(s): Runha  09:00 - 10:00 Talk  09:00 - 10:00 Talk	Tutorial C5: Teaching Functional Programming Michael Sperber  CUFP 2017 - CUFP Tutorials C6 at L5  Ing Li  Tutorial C6: Transducers in Practice Renzo Borgatti  Haskell 2017 - Day 2, Session 1 at L1  Algorithmic Music in Haskell (Invited Talk)
09:00 - 10:00: Chair(s): Runha  09:00 - 10:00 Talk  09:00 - 10:00 Chair(s): Runha  09:00 - 10:00 Talk  09:00 - 10:00 Talk	Tutorial C5: Teaching Functional Programming Michael Sperber  CUFP 2017 - CUFP Tutorials C6 at L5  Ing Li  Tutorial C6: Transducers in Practice Renzo Borgatti  Haskell 2017 - Day 2, Session 1 at L1  Algorithmic Music in Haskell (Invited Talk) Donya Quick
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09:10 - 10:00 Talk	Keynote  Martin Sumner
09:10 - 10:10:	OCaml 2017 - Talk session 1 at L3
09:05 - 09:40 Talk	Invited talk: new contributors David Allsopp, Florian Angeletti, Sébastien Hinderer
09:40 - 10:05 Talk	The State of the OCaml Platform: September 2017  Anil Madhavapeddy
10:00 - 10:30	Catering - Friday coffee break 1 at Catering
10:00 - 10:30 Coffee break	Friday coffee break 1
10:30 - 11:30:	CUFP 2017 - CUFP Tutorials C5 at L6
10:30 - 11:30 Talk	Tutorial C5: Teaching Functional Programming (part 2)  Michael Sperber
10:30 - 11:30:	CUFP 2017 - CUFP Tutorials C6 at L5
10:30 - 11:30 Talk	Tutorial C6: Transducers in Practice (part 2) Renzo Borgatti
10:30 - 11:30:	Haskell 2017 - Day 2, Session 2 at L1
10:30 - 11:00 Talk	Well-Typed Music Does Not Sound Wrong (Experience Report)  Dmitrij Szamozvancev, Michael Gale
11:00 - 11:30 Talk	Back to the Future: Time Travel in FRP  Ivan Perez
10:30 - 11:20:	Erlang 2017 - Session 2 at L4
10:30 - 10:55 Talk	Construction and Formal Verification of a Fault-Tolerant Distributed Mutual Exclusion Algorithm  Evgeniy Shishkin
10:55 - 11:20 Talk	Towards an Isabelle/HOL Formalisation of Core Erlang  Joseph Harrison
10:30 - 11:30:	OCaml 2017 - Talk session 2 at L3
10:30 - 10:50 Talk	Owl: A General-Purpose Numerical Library in OCaml  Liang Wang
10:50 - 11:10 Talk	Extending OCaml's open Runhang Li, Jeremy Yallop
11:10 - 11:30 Talk	Genspio: Generating Shell Phrases In OCaml Sebastien Mondet
	Catering - Friday coffee break 2 at Catering

11:35 - 11:45	Flash poster presentation
Talk	riasir poster presentation
11:45 - 12:30 Talk	mSAT: An OCaml SAT Solver  Bury Guillaume
11:45 - 12:30 Talk	Jbuilder: a modern approach to OCaml development Jeremie Dimino, Mark Shinwell
11:45 - 12:30 Talk	Tyre – Typed Regular Expressions  Gabriel Radanne
11:45 - 12:30 Talk	ocamli: Interpreted OCaml  John Whitington
12:00 - 12:30:	CUFP 2017 - CUFP Tutorials C5 at L6
12:00 - 12:30 Talk	Tutorial C5: Teaching Functional Programming (part 3)  Michael Sperber
12:00 - 12:30:	CUFP 2017 - CUFP Tutorials C6 at L5
12:00 - 12:30 Talk	Tutorial C6: Transducers in Practice (part 3)  Renzo Borgatti
12:00 - 12:30:	Haskell 2017 - Day 2, Session 3 at L1
12:00 - 12:30 Talk	The Linearity Monad  Jennifer Paykin, Steve Zdancewic
12:00 - 12:25:	Erlang 2017 - Session 3 at L4
12:00 - 12:25 Talk	Erlang and Elixir development news
12:25 - 14:00:	Catering - Friday lunch at Catering
12:25 - 14:00 Lunch	Friday lunch
14:00 - 15:00: Chair(s): Runha	CUFP 2017 - CUFP Tutorials C7 at L6
14:00 - 15:00 Talk	Tutorial C7: Owl - Data Science in OCaml  Liang Wang
14:00 - 15:00: Chair(s): Runha	CUFP 2017 - CUFP Tutorials C8 at L5
14:00 - 15:00 Talk	Tutorial C8: GraphQL Servers in OCaml Andreas Garnæs
14.00 15.00.	Haskell 2017 - Day 2, Session 4 at L1
14:00 - 15:00:	

14:00 - 14:25 Talk	Distributed Memory Architecture for High-Level Synthesis of Embedded Controller from Erlang  Kagumi Azuma, Nagisa Ishiura, Nobuaki Yoshida, Hiroyuki Kanbara
14:25 - 14:50 Talk	Structuring Erlang BEAM control flow  Dániel Lukács, Melinda Toth
14:00 - 15:00	OCaml 2017 - Talk session 3 at L3
14:00 - 14:20 Talk	ROTOR: First Steps Towards a Refactoring Tool for OCaml Reuben N. S. Rowe, Simon Thompson
14:20 - 14:40 Talk	A memory model for multicore OCaml Stephen Dolan, KC Sivaramakrishnan
14:40 - 15:00 Talk	Bioinformatics, The Typed Tagless Final Way  Sebastien Mondet
14:50 - 15:30	Catering - Friday coffee break 3 at Catering
14:50 - 15:30 Coffee break	Friday coffee break 3
15:30 - 16:20	CUFP 2017 - CUFP Tutorials C7 at L6
15:30 - 16:20 Talk	Tutorial C7: Owl - Data Science in OCaml (part 2)  Liang Wang
15:30 - 16:20	CUFP 2017 - CUFP Tutorials C8 at L5
15:30 - 16:20 Talk	Tutorial C8: GraphQL Servers in OCaml (part 2)  Andreas Garnæs
15:30 - 16:30	Haskell 2017 - Day 2, Session 5 at L1
15:30 - 16:00 Talk	Hardware Software Co-Design in Haskell  Markus Aronsson, Mary Sheeran
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Talk 16:00 - 16:30 Talk	Markus Aronsson, Mary Sheeran Streaming Irregular Arrays
Talk 16:00 - 16:30 Talk	Markus Aronsson, Mary Sheeran  Streaming Irregular Arrays Robert Clifton-Everest, Trevor L. McDonell, Manuel Chakravarty, Gabriele Keller
Talk  16:00 - 16:30  Talk  15:30 - 16:20  15:30 - 15:55	Markus Aronsson, Mary Sheeran  Streaming Irregular Arrays Robert Clifton-Everest, Trevor L. McDonell, Manuel Chakravarty, Gabriele Keller  Erlang 2017 - Session 5 at L4  The Shared-Memory Interferences of Erlang/OTP Built-ins
Talk  16:00 - 16:30  Talk  15:30 - 16:20  15:30 - 15:55  Talk  15:55 - 16:20  Talk	Markus Aronsson, Mary Sheeran  Streaming Irregular Arrays Robert Clifton-Everest, Trevor L. McDonell, Manuel Chakravarty, Gabriele Keller  Erlang 2017 - Session 5 at L4  The Shared-Memory Interferences of Erlang/OTP Built-ins Stavros Aronis, Kostis Sagonas  Towards Change-driven Testing
Talk  16:00 - 16:30  Talk  15:30 - 16:20  15:30 - 15:55  Talk  15:55 - 16:20  Talk	Markus Aronsson, Mary Sheeran  Streaming Irregular Arrays Robert Clifton-Everest, Trevor L. McDonell, Manuel Chakravarty, Gabriele Keller  Erlang 2017 - Session 5 at L4  The Shared-Memory Interferences of Erlang/OTP Built-ins Stavros Aronis, Kostis Sagonas  Towards Change-driven Testing Viktória Fördős, István Bozó, Melinda Toth

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1	16:20 - 16:50 Coffee break	Friday coffee break 4
ı	16:50 - 17:30: (	CUFP 2017 - CUFP Tutorials C7 at L6
	16:50 - 17:30 Talk	Tutorial C7: Owl - Data Science in OCaml (part 3)  Liang Wang
	16:50 - 17:30:	CUFP 2017 - CUFP Tutorials C8 at L5
	16:50 - 17:30 Talk	Tutorial C8: GraphQL Servers in OCaml (part 3)  Andreas Garnæs
	16:50 - 17:50:	Haskell 2017 - Day 2, Session 6 at L1
	16:50 - 17:20 Talk	Improving STM Performance with Transactional Structs  Ryan Yates, Michael Scott
	17:20 - 17:50 Talk	Adaptive Lock-Free Data Structures in Haskell: A General Method for Concurrent Implementation Swapping  Chao-Hong Chen, Vikraman Choudhury, Ryan R. Newton
	16:50 - 17:50:	Erlang 2017 - Session 6 at L4
I	16:50 - 17:20 Talk	eAOP - An Aspect Oriented Programming Framework for Erlang Ian Cassar, Adrian Francalanza, Luca Aceto, Anna Ingolfsdottir
	17:20 - 17:50 Talk	In medias res: WIP discussion
	16:50 - 17:40:	OCaml 2017 - Talk session 5 at L3
1	17:00 - 17:20 Talk	Component-based Program Synthesis in OCaml Zhanpeng Liang, Kanae Tsushima
	17:20 - 17:40 Talk	Testing with Crowbar Stephen Dolan, Mindy Preston
Sa	t 9 Sep	
ı	09:00 - 09:10:	FARM 2017 - Introduction at L3
	09:00 - 09:10 Day opening	Welcome Michael Sperber, Jean Bresson
	09:00 - 10:10: I Chair(s): Richard	HIW 2017 - State of GHC at L1  I A. Eisenberg
ı	09:00 - 09:30 Talk	Progress on GHC Simon Peyton Jones
Ī	09:30 - 10:00 Talk	GHC Infrastructure Update and Discussion  Ben Gamari
	10:00 - 10:10 Talk	Getting Ready for Hadrian  Andrey Mokhov, Zhen Zhang, Ben Gamari, Neil Mitchell

99:10 - 10:00: CUFP 2017 - CUFP Talks 1 at		
Talk Bood Stokle  89:35 - 10:00  80:36 - 10:00  FARM 2017 - Session 1: Papers/Demos at L3  Chair(s): Jean Bresson  99:10 - 10:00: FARM 2017 - Session 1: Papers/Demos at L3  Chair(s): Jean Bresson  99:10 - 10:00  A Categorial Grammar for Music and Its Use in Automatic Melody Generation Halley Young  Demo- Representation of Musical Notation in Haskell Edward Lilley  10:00 - 10:30: Catering - Saturday coffee break 1 at Catering  10:00 - 10:30: Saturday coffee break 1  10:30 - 11:20: CUFP 2017 - CUFP Talks 2 at L2  10:30 - 11:20: Distributed load testing with MZBench Renat Idrisov  10:30 - 11:30: HW 2017 - Compiling to LLVM at L1  Chair(s): Jan Stolarek  10:30 - 10:55  Native Support for Explicit Stacks in LLVM Kavon Farvardin, Simon Peyton Jones  10:55 - 11:20  SimplexHC: Lowering High-Level Haskell to Imperative IR Siddharh Bhat  11:20 - 11:30: HW 2017 - Session 2: Papers/Demos at L3  Chair(s): Van Perez  10:30 - 10:50  Demonstration  Demonstration  Demo- Attrican Polyphony and Polyrhythm  Chirs Ford  Demonstration  Demo- Attrican Polyphony and Polyrhythm  Chirs Ford  Demonstration  Demo- Attrican Polyphony and Polyrhythm  Chirs Ford  Demonstration  Demo- Saturday coffee break 2 at Catering  11:20 - 12:00  Catering - Saturday coffee break 2 at Catering  12:00 - 12:25: CUFP 2017 - CUFP Talks 3 at L2  12:00 - 12:25: CUFP 2017 - CUFP Talks 3 at L2	09:10 - 10:00:	CUFP 2017 - CUFP Talks 1 at L2
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12:00 - 12:25: H Chair(s): Ben Gar	HIW 2017 - Constraints at L1
12:00 - 12:25 Talk	On Unsatisfiability  J. Garrett Morris
12:00 - 12:30: F Chair(s): Michael	FARM 2017 - Session 3: Paper at L3 Sperber
12:00 - 12:30 Talk	Modelling the Way Mathematics Is Actually Done Joe Corneli, Ursula Martin, Dave Murray-Rust, Alison Pease, Raymond Puzio, Gabriela Rino Nesin
12:25 - 14:00: C	Catering - Saturday lunch at Catering
12:25 - 14:00 Lunch	Saturday lunch
14:00 - 14:50: C	CUFP 2017 - CUFP Talks 4 at L2
14:00 - 14:25 Talk	Formally Verifying a Smart-Contract Language Implementation with Isabelle Simon Meier
14:25 - 14:50 Talk	Haskell games and apps for iOS and Android  Ivan Perez
14:00 - 15:00: F Chair(s): Jean Bro	FARM 2017 - Session 4: Tutorial at L3
14:00 - 15:00 Talk	FAUST Tutorial for Functional Programmers  Yann Orlarey, Stéphane Letz, Dominique Fober, Romain Michon
14:00 - 15:00: F Chair(s): Adam G	HIW 2017 - Working in Core at L1
14:00 - 14:25 Talk	Why GHC Core and Linear Logic Should be Best Friends  Carter Schonwald, Joel Burget
14:25 - 14:50 Talk	Demand Analysis vs. Call Arity  Sebastian Graf
14:50 - 15:00 Talk	Lightning Talk Slot #2
14:50 - 15:30: C	Catering - Saturday coffee break 3 at Catering
14:50 - 15:30 Coffee break	Saturday coffee break 3
15:30 - 16:20: C	CUFP 2017 - CUFP Talks 5 at L2
15:30 - 15:55 Talk	Using Haskell to run a datacenter  Pavlo Kerestey
15:55 - 16:20 Talk	Functional Facades over Legacy Code Nicholas Cowle, Robin Kay

Demonstration	Demo — The Arpeggigon: A Functional Reactive Musical Automaton  Henrik Nilsson
15:50 - 16:10 Demonstration	Demo — Ait: A Concatenative Language for Creative Programming Stian Veum Møllersen
15:30 - 16:30: Chair(s): Wren R	HIW 2017 - Tool Support at L1 Romano
15:30 - 15:55 Talk	IDE Support in GHC  Alan Zimmerman
15:55 - 16:20 Talk	Tracking GHC Performance  Mathieu Boespflug, Manuel Chakravarty
16:20 - 16:30 Talk	Lightning Talk Slot #3
16:20 - 16:50:	Catering - Saturday coffee break 4 at Catering
16:20 - 16:50 Coffee break	Saturday coffee break 4
16:50 - 17:50: Chair(s): Bartosz 16:50 - 17:15	HIW 2017 - All Broken Up at L1  z Nitka  An Experiment in Fragment-Based Code Distribution
Talk	Philipp Schuster
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17:15 - 17:50 Talk	Lightning Talk Slot #4
Talk	Lightning Talk Slot #4  CUFP 2017 - CUFP Talks 6 at L2
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Talk  16:50 - 17:40:  16:50 - 17:15  Talk	CUFP 2017 - CUFP Talks 6 at L2  Building the largest payment sandbox on a tiny machine
Talk  16:50 - 17:40:  16:50 - 17:15  Talk  17:15 - 17:40  Talk	CUFP 2017 - CUFP Talks 6 at L2  Building the largest payment sandbox on a tiny machine Máté Marjai  Using Functional Programming to Accelerate Translational Research at Pfizer Austin Huang  FARM 2017 - Session 6: Papers/Demos at L3
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