Monday, 22 July				
Other	PH 103N	PH 111N	PH 203N	PH 211N
07:30 Breakfast (Workshops)	08:30 Chris Rackauckas	08:30 Huda Nassar, Jane Herriman	08:30 Matt Bauman	08:30 David P. Sanders
	Solving Differential Equations in Julia	Excelling at Julia: basics and beyond	Machine Learning Workshop	Intermediate Julia for Scientific Computing
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12:00 Lunch		0 0 0 0 0		
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	13:30 Vijay Ivaturi, Chris Rackauckas	13:30 Kristoffer Carlsson, Fredrik Ekre	13:30 Bogumił Kamiński	13:30 Matt Bauman, Avik Sengupta
	Pharmaceutical Modeling and Simulation with Pumas	Writing a package — a thorough guide	Handling Data with DataFrames.jl	Parallel Computing Workshop
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	Tuesday, 23 July					
	BOF	Elm A	Elm B	NS Room 130	Other	Room 349
					07:30 Breakfast	0 0 0
				08:30 JuliaCon Committee Opening Remarks	5 8 8	5 0 0 0 0
				08:40 Professor Madeleine Udell Keynote: Professor Madeleine Udell	0 0 0 0	0 0 0 0
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				09:30 Kristoffer Carlsson Debugging code with JuliaInterpreter	6 6 8	0 0 0
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				10:00 Paul Petersen 10:05 Viral B. Shah	0 0 0 0	
				Julia Survey Results 10:15 Nathan Daly	10:20 Morning break	0 0 0
					10.20 Morning Break	0 0 0
	11:00 Chris Rackauckas Dynamical Modeling in Julia	11:00 Katharine Hyatt	11:00 Robin Deits		• • •	11:00 Fredrik Ekre
	Dynamical Modeling in Julia	Intelligent Tensors in Julia	The Linguistics of Puzzles: Solving Cryptic Crosswords in Julia		• • •	Pkg, Project.toml, Manifest.toml and Environments
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		11:30 Michiel Stock A general-purpose toolbox for efficient Kronecker-based learning	11:30 Jeffrey Sarnoff Counting On Floating Point		6 8 8	11:30 Rory Finnegan FilePaths: File system abstractions and why we need them
		11:40 Jeff Bezanson Thread Based Parallelism part 2	11:40 Bogumił Kamiński Analyzing social networks with SimpleHypergraphs.jl		0 0 0 0	11:40 Jay Dweck Ultimate Datetime
			11:50 Takuya Kitazawa Recommendation.jl: Building Recommender Systems in Julia			11:50 Ahan Sengupta Smart House with JuliaBerry
					12:05 Lunch	0 0 0 0
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				13:30 Dr Cynthia J Musante	6 8 8	0 0 0 0
				Keynote: Dr Cynthia J Musante	6 8 8 8	ō 0 0 0 0
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	14:30 Josh Day JuliaDB Code and Chat	14:30 Morten Piibeleht Generating documentation: under the hood of Documenter.jl	14:30 Tucker McClure A New Breed of Vehicle Simulation		0 0 0 0	14:30 Anthony Blaom M.JMachine Learning in Julia
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		15:00 Fredrik Ekre Literate programming with Literate.jl	15:00 Andrea Neumayr Modia3D: Modeling and Simulation of 3D-Systems in Julia		0 0 0 0	15:00 Valentin Mari Merging machine learning and econometric algorithms to improve feature
		15:10 Dominique Luna Formatting Julia	15:10 Brian Jackson TrajectoryOptimization.jl: A testbed for optimization-based robotic motion glanning		8 8 8	15:10 Jun Tian Let's Play Hanabi!
			15:20 planning Sam Claassens Non-Gaussian State-estimation with JuliaRobotics/Caesar.jl		15:30 Short break	15:20 Paulito Palmes TSML (Time Series Machine Learning)
	15:45 Viral B. Shah Julia and NumFocus, a discussion of how money works	15:45 Alex Lew Cleaning messy data with Julia and Gen	15:45 David Widmann Solving Delay Differential Equations with Julia			15:45 Ludovic Räss Porting a massively parallel Multi-GPU application to Julia: a 3-D nonlinear multi-physics flow solver
	money works				0 0 0	0 0 0 0 0
		16:15 Brandon Taylor	16:15 Dheepak		0 0 0	16:15 Keno Fischer
		LightQuery.jl	Open Source Power System Production Cost Modeling in Julia		50 00 00 00	XLA.jl: Julia on TPUs
	16:35 Jarrett Revels Cassette and company — Dynamic compiler	• • • • • • • • • • • • • • • • • • •			0 0 0 0	
	passes	16:45 Jacob Quinn State of the Data: JuliaData 16:55 Mary McGrath	16:45 Chris Rackauckas Scientific AI: Domain Models with Integrated Machine Learning		0 0 0 0	16:45 James Bradbury Targeting Accelerators with MLIR.jl 16:55 Nicolau Leal Werneck
		10.35 Mary McGrath Prototyping Visualizations for the Web with Vega and Julia 17:05 Simon Danisch			9 0 0 0	SIMD and cache-aware sorting with ChipSort.jl 17:05 Ranjan Anantharaman
		A Showcase for Makie	17:15 Andrew Rosemberg HydroPowerModels,il: A Julia/JuMP Package for Hydrothermal economic		0 0 0 0	Generic Sparse Data Structures on GPUs 17:15 Rohan McLure Array Data Distribution with ArrayChannels.jl
			17:25 17:25 Michel Schanen Michel Schanen Michel Schanen		50 00 00 00	17:25 Tom Kwong High-Performance Portfolio Risk Aggregation
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Wednesday, 24 July					
BOF	Elm A	Elm B	NS Room 130	Other 07:30 Breakfast	Room 349
			08:40 Professor Steven G Johnson Keynote: Professor Steven G Johnson		
			09:30 Jiahao Chen		
			09:45 Stefan Karpinski 09:50 Seth Bromberger Using Julia in Secure Environments		
				10:10 Poster Session	
11:00 Clark Evans Sustainable Development and Open Source Monetization	11:00 Dheepak Why writing C interfaces in Julia is so easy*	11:00 Jeff Mills Probabilistic Biostatistics: Adventures with Julia from Code to Clinic			11:00 Roger Luo Yao.jl: Extensible, Efficient Quantum Algorithm Design for Humans.
	11:30 Aaron Christianson Backticks and the Glorious Command Literal 11:40 Patrick Kofod Mogensen Re-designing Optim 11:50 Dai ZJ Towards Faster Sorting and Group-by operations	11:30 Virginia Spanoudaki Slow images, fast numbers: Using Julia in biomedical imaging and beyond 11:40 Amita Varma Brain Tumour Classification with Julia 11:50 Swakkhar Shatabda Mining Imbalanced Big Data with Julia			11:30 David P. Sanders Guaranteed constrained and unconstrained global optimisation in Julia 11:40 Michael Droettboom Pyodide: The scientific Python stack compiled to WebAssembly 11:50 William L Fredericks Julia for Battery Model Parameter Estimation
				12:00 Lunch	
			13:30 Arch D. Robison Keynote: Arch D. Robison		
14:30 Nathan Daly Diversity and Inclusion in Julia Community	14:30 Christine R Herlihy SemanticModels.jl: not just another modeling framework	14:30 Clark C. Evans DataKnots.jl -an extensible, practical and coherent algebra of query combinators			14:30 Rebecca Sarfati Heterogeneous Agent Dynamic Stochastic General Equilibrium (DSGE) Models in Julia at the Federal Reserve Bank of New York
	15:00 Randy Zwitch OmniSci.jl: Bringing the open-source, GPU-accelerated relational database to Julia	15:00 David Anthoff Queryverse -Under the Hood			15:00 Ethan Matlin "Online" Estimation of Macroeconomic Models
				15:30 Short break	
15:45 Curtis Vogt Julia In Production	15:45 Tillmann Weisser Polynomial and Moment Optimization in Julia and JuMP	15:45 Elwin van 't Wout Raising Diversity & Inclusion among Julia users			15:45 Mike Innes Differentiate All The Things!
16:45 Valentin Churavy JuliaGPU					16:15 Avik Pal Differentiable Rendering and its Applications in Deep Learning 16:25 Jesse Bettencourt Neural Ordinary Differential Equations with DiffEqFlux 16:35 Elisabeth Roesch Fitting Neural Ordinary Differential Equations with DiffeqFlux.jl
					17:05 Ramchandran Muthukumar Randomized Sketching for Approximate Gradients : Applications to PDE Constrained Optimization and Backpropagation. Filippo Vicentini Neural Network states and unsupervised learning for Open Quantum Systems Dhairya Gandhi Machine Learning for Social Good
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Thursday, 25 July					
BOF	Elm A	Elm B	NS Room 130	Other 07:30 Breakfast	Room 349
			08:40 Professor Heather Miller Keynote: Professor Heather Miller		
			09:30 Jeff Bezanson What's Bad About Julia		
			10:00 Vijay Ivaturi	10:10 Poster Session	
11:00 Andreas Noack Performant parallelism with productivity and portability.	11:00 Shashi Gowda Julia + JavaScript = <3	11:00 David P. Sanders Interval methods for scientific computing in Julia			11:00 Stefan Karpinski The Unreasonable Effectiveness of Multiple Dispatch
	11:30 Mohammed El-Beltagy Julia web servers deployment 11:40 Bogumit Kamiński A case study of migrating Timelineapp.co to the Julia language 11:50 Renee Spear The Julia Language 1.0 Ephemeris and Physical Constants Reader for Solar System Bodies	11:30 Daniel Bachrathy Implicit Geometry with Multi-Dimensional Bisection Method 11:40 Alberto Paoluzzi Computational topology and Boolean operations with Julia sparse arrays 11:50 Michael Reed Geometric algebra in Julia with Grassmann.jl			11:30 Joshua Ballanco Julia S Killer App(s): Implementing State Machines Simply using Multiple Dispatch JinGua Liu Differential Programming Tensor Networks 11:50 Roger Luo JuliaCN: A community driven localization group for Julia in China
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			13:30 Dr Steven Lee Keynote: Dr Steven Lee		
14:30 Vijay Ivaturi Julia in Healthcare	14:30 Nathan Daly If Runtime isn't Funtime: Controlling Compile-time Execution	14:30 David Anthoff Mimi.jl – Next Generation Climate Economics Modeling			14:30 Scott Haney Writing maintainable Julia code
	15:00 Takafumi Arakaki Transducers: data-oriented abstraction for sequential and parallel algorithms on containers	15:00 Charlie Kawczynski The Climate Machine: A New Earth System Model in Julia			15:00 Tim Wheeler How We Wrote a Textbook using Julia
15:45 Stefan Karpinski Package Management BoF	15:45 Yingbo Ma Efficient Stiff Ordinary Differential Equation Solvers for Quantitative Systems Pharmacology (QsP)	15:45 Harrison Grodin Symbolic Manipulation in Julia		15:30 Short break	15:45 Cameron Pfiffer Turing: Probabalistic Programming in Julia
	16:15 Vaibhav Dixit Simulation and estimation of Nonlinear Mixed Effects Models with PuMaS.jl	16:15 Lyndon White (@oxinabox) Building a Debugger with Cassette			16:15 Will Tebbutt Gaussian Process Probabilistic Programming with Stheno.jl
16:45 Mosè Giordano Julia in Astronomy	16:45 Bram De Jaegher An advanced electrodialysis process model in the Julia ecosystem 16:55 Shubham Maddhashiya IVIVC.jl: In vitro – in vivo correlation module as part of an integrated pharmaceutical modeling and simulation platform Vasco Verissimo GigaSOM,il: Huge-scale, high-performance flow cytometry clustering in	16:45 Valentin Churavy Static walks through dynamic programs — a conversation with type- inference. Valentin Churavy Concolic Fuzzing — Or how to run a theorem prover on your Julia code 17:05 Tim Holy Analyzing and updating code with JuliaInterpreter and Revise			16:45 Chad Scherrer Soss.jl: Probabilistic Metaprogramming in Julia
	17:15 Julia benjamin chu MendelIHT.Jl: How to fit Generalized Linear Models for High Dimensional Genetics (GWAS) Data Alec Bills Electrifying Transportation with Julia	17:15 Kristoffer Carlsson TimerOutputs.jl-a cheap and cheerful instrumenting profiler 17:25 Simon Danisch PackageCompiler			17:15 Marco Cusumano-Towner Gen: a general-purpose probabilistic programming system with programmable inference built on Julia Ceduric St-Jean-Leblanc A probabilistic programming language for switching Kalman filters
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