	Monday, 22 July				
	Other	PH 103N	PH 111N	PH 203N	PH 211N
07	30 Breakfast (Workshops)				0 0 0 0
		08:30 Chris Rackauckas Solving Differential Equations in Julia	08:30 Huda Nassar, Jane Herriman Excelling at Julia: basics and beyond	08:30 Matt Bauman Machine Learning Workshop	08:30 David P. Sanders Intermediate Julia for Scientific Computing
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12	:00 Lunch	ŏ 0 0 0 0			ă 8 8 8
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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	
				08:30 JuliaCon Committee Opening Remarks		
				08:40 Professor Madeleine Udell Keynote: Professor Madeleine Udell		
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				09:30 Sebastian Pfitzner Debugging code with JuliaInterpreter		
				10:00 Paul Petersen 10:05 Viral B. Shah		
				Julia Survey Results 10:15 Nathan Daly		
					10:20 Morning break	
1	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
		11:30 Michiel Stock	11:30 Jeffrey Sarnoff			11:30 Rory Finnegan
		A general-purpose toolbox for efficient Kronecker-based learning 11:40 Jeff Bezanson Thread Based Parallelism part 2	11:30 Jeffrey Sarnoff Counting On Floating Point 11:40 Bogunit Kamiński Analyzing social networks with SimpleHypergraphs.jl			11:30 Rory Finnegan FilePaths: File system abstractions and why we need them 11:40 Jay Dweck Uttimate Datetime
		111:50 Jameson Nash Thread Based Parallelism part 1	11:50 Takuya Kitazawa Recommendation.ji: Building Recommender Systems in Julia			11:50 Ahan Sengupta Smart House with JuliaBerry
					12:05 Lunch	
				13:30 Dr Cynthia J Musante		
				Keynote: Dr Cynthia J Musante		
	14:30 Josh Day	14:30 Morten Piibeleht	14:30 Tucker McClure			14:30 Anthony Blaom
	14:30 Josh Day JuliaDB Code and Chat	Generating documentation: under the hood of Documenter.jl	A New Breed of Vehicle Simulation			MLJ -Machine Learning in Julia
		15:00 Fredrik Ekre	15:00 Andrea Neumayr			15:00 Valentin Mari
		Literate programming with Literate.jl 15:10 Dominique Luna Formatting Julia	15:00 Andrea Neumayr Modia3D: Modeling and Simulation of 3D-Systems in Julia 15:10 Brian Jackson TrajectoryOptimization.jl: A testbed for optimization-based robotic motion			Merging machine learning and econometric algorithms to improve feature selection with Julia 15:10 Jun Tian
		rormatung Jula	15:20 Sam Classens Non-Gaussian State-estimation with JuliaRobotics/Caesar, il			Let's Play Hanabi! 15:20 Paulito Palmes TSML (Time Series Machine Learning)
					15:30 Short break	
1	15:45 Viral B. Shah	15:45 Alex Lew	15:45 David Widmann			15:45 Ludovic Räss
	Julia and NumFocus, a discussion of how money works	Cleaning messy data with Julia and Gen	Solving Delay Differential Equations with Julia			Porting a massively parallel Multi-GPU application to Julia: a 3-D nonlinear multi-physics flow solver
		16:15 Brandon Taylor LightQuery.jl	16:15 Dheepak Open Source Power System Production Cost Modeling in Julia			16:15 Elliot Saba XLA.jl: Julia on TPUs
	16:35 Jarrett Revels					
	Cassette and company — Dynamic compiler passes	16:45 Jacob Quinn	16:45 Chris Rackauckas			16:45 James Bradbury Targeting Accelerators with MLIR.jl
		State of the Data: JuliaData 16:55 Mary McGrath Prototyping Visualizations for the Web with Vega and Julia	Model-Enhanced Machine Learning for Accelerated Scientific Computing			Targeting Accelerators with MLIR.jl 16:55 Nicolau Leal Werneck SIMD and cache-aware sorting with ChipSort.jl
		17:05 Simon Danisch A Showcase for Makie				17:05 Ranjan Anantharaman Generic Sparse Data Structures on GPUs
			17:15 Andrew Rosemberg HydroPowerModels, jir. A Julia/JuMP Package for Hydrothermal economic dispateh Ontimization			17:15 Rohan McLure Array Data Distribution with ArrayChannels.jl
			dispatch Optimization Michel Schanen Modeling in Julia at Exascale for Power Grids			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	11:30 Virginia Spanoudaki Slow images, fast numbers: Using Julia in biomedical imaging and beyond 11:40 Amita Varma Brain Tumour Classification 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 Dai ZJ Towards Faster Sorting and Group-by operations	11:50 Swakkhar Shatabda Mining Imbalanced Big Data with Julia		12:00 Lunch	11:50 William L Fredericks Julia for Battery Model Parameter Estimation
			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
15:45 Curtis Voqt	15:45 Tillmann Weisser	15:45 Elwin van 't Wout		15:30 Short break	15:45 Mike Innes
15:45 Curtis Vogt Julia In Production	Polynomial and Moment Optimization in Julia and JuMP	15:45 Elwin van 't Wout Raising Diversity & Inclusion among Julia users			Differentiate All The Things!
16:35 Mosè Giordano Julia in Astronomy					16:15 Avik Pal Differentiable Rendering and its Applications in Deep Learning 16:25 Jesse Bettencourt Neural Ordinary Differential Equations with DiffEqFlux Elisabeth Roesch Fitting Neural Ordinary Differential Equations with DiffeqFlux.jl
					17:05 Ramchandran Muthukumar Randomized Sketching for Approximate Gradients : Applications to PDE
					Randomized Sketching for Approximate Gradients : Applications to PDE Constrained Optimization and Backpropagation. 17:15 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 Bogumił Kamiński A case study of migrating Timelineapp.co to the Julia language 11:50 Renee Spear	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			11:30 Joshua Ballanco Julia's Killer App(s): Implementing State Machines Simply using Multiple Dispatch 11:50 Roger Luo JuliaCN: A community driven localization group for Julia in China
	11:50 Renee Spear The Julia Language 1.0 Ephemeris and Physical Constants Reader for Solar System Bodies	Geometric algebra in Julia with Grassmann.jl		12:00 Lunch	JuliaUN: A community driven localization group for Julia in China
			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
				15:30 Short break	
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			15:45 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 Valentin Churavy JuliaGPU	16:45 Bram De Jaegher An advanced electrodialysis process model in the Julia ecosystem 16:55 Shubham Maddhashiya IVIVC,II: In vitro – in vivo correlation module as part of an integrated pharmaceutical modeling and simulation platform Vasco Verissimo [6:45] Gram Maddhashiya IVIVC,II: In vitro – in vivo correlation module as part of an integrated pharmaceutical modeling and simulation platform Vasco Verissimo	16:45 Valentin Churavy Static walks through dynamic programs — a conversation with type- inference. 16:55 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
T	17:15 Julia Demjamin chu MendellHT.Ji: 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 Cedric St-Jean-Leblanc A probabilistic programming language for switching Kalman filters
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