Mon, Jul 28	Session
08:00-17:30	Registration Desk Open (HH Lobby)
08:45-09:00	Conference Opening (HH Auditorium)
09:00-10:00	Plenary Talk by Rohan Sawhney (HH Auditorium)
10:00-10:30	Coffee Break (HH Lobby)
10:30-12:30	Track A: Stochastic Computation and Complexity, Part I (HH Auditorium)
10:30-12:30	Track B: Domain Uncertainty Quantification (HH Ballroom)
10:30-12:30	Track C: Nested expectations: models and estimators, Part I (PH Auditorium)
10:30-12:30	Track D: Hardware or Software for (Quasi-)Monte Carlo Algorithms, Part I (WH
	Auditorium)
10:30-12:30	Track E: Technical Session 1 - Markov Chain Monte Carlo (HH Alumni Lounge)
12:30-14:00	Lunch Break ()
14:00-15:00	Plenary Talk by Christiane Lemieux, U of Waterloo, Golden ratio nets and sequences
	(HH Auditorium)
15:00-15:30	Coffee Break (HH Lobby)
15:30-17:30	Track F: Stochastic Computation and Complexity, Part II (HH Auditorium)
15:30-17:30	Track G: Recent advances in optimization under uncertainty (HH Ballroom)
15:30-17:30	Track H: Computational Methods for Low-discrepancy Sampling and Applications
	(PH Auditorium)
15:30-17:30	Track I: Technical Session 4 - Quasi-Monte Carlo, Part 1 (WH Auditorium)
15:30-17:30	Track J: Technical Session 12 - PDEs (HH Alumni Lounge)
17:30-19:30	Welcome Reception (HH Lobby)

Tue, Jul 29	Session
08:30-17:30	Registration Desk Open (HH Lobby)
09:00-10:00	Plenary Talk by Peter Glynn, Stanford U, Combining Simulation and Linear Algebra:
	COSIMLA (HH Auditorium)
10:00-10:30	Coffee Break (HH Lobby)
10:30-12:30	Track A: Stochastic Computation and Complexity, Part III (HH Auditorium)
10:30-12:30	Track B: Next-generation optimal experimental design: theory, scalability, and real
	world impact: Part I (HH Ballroom)
10:30-12:30	Track C: Heavy-tailed Sampling (PH Auditorium)
10:30-12:30	Track D: Frontiers in (Quasi-)Monte Carlo and Markov Chain Monte Carlo Methods,
	Part I (WH Auditorium)
10:30-12:30	Track E: Technical Session 2 - Bayesian Methods (HH Alumni Lounge)
12:30-14:00	Lunch Break ()
14:00-15:00	Plenary Talk by Roshan Joseph, Georgia Institute of Technology, Sensitivity and
	Screening: From Monte Carlo to Experimental Design ()
15:00-15:30	Coffee Break (HH Lobby)
15:30-17:30	Track F: Stochastic Computation and Complexity, Part IV (HH Auditorium)
15:30-17:30	Track G: Next-generation optimal experimental design: theory, scalability, and real
	world impact: Part II (HH Ballroom)
15:30-17:30	Track H: Advances in Rare Events Simulation (PH Auditorium)
15:30-17:30	Track I: Frontiers in (Quasi-)Monte Carlo and Markov Chain Monte Carlo Methods,
	Part II (WH Auditorium)
15:30-17:30	Track J: Technical Session 5 - Quasi-Monte Carlo, Part 2 (HH Alumni Lounge)

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Wed, Jul 30	Session
08:30-16:30	Registration Desk Open (HH Lobby)
09:00-10:00	Plenary Talk by Michaela Szölgyenyi, U of Klagenfurt, An optimal transport approach
10.00.10.00	to quantifying model uncertainty of SDEs (HH Auditorium)
10:00-10:30	Coffee Break (HH Lobby)
10:30-12:30	Track A: Stochastic Computation and Complexity, Part V (HH Auditorium)
10:30-12:30	Track B: Statistical Design of Experiments (HH Ballroom)
10:30-12:30	Track C: Advances in Adaptive Hamiltonian Monte Carlo (PH Auditorium)
10:30-12:30	Track D: Technical Session 15 - Simulation (WH Auditorium)
10:30-12:30	Track E: Technical Session 6 - Sampling (HH Alumni Lounge)
12:30-14:00	Lunch Break ()
14:00-16:00	Track F: Stochastic Optimization (HH Auditorium)
14:00-16:00	Track G: Recent Progress on Algorithmic Discrepancy Theory and Applications (HH
	Ballroom)
14:00-16:00	Track H: Monte Carlo Applications in High-performance Computing, Computer
	Graphics, and Computational Science (PH Auditorium)
14:00-16:00	Track I: Technical Session 16 - Statistics (WH Auditorium)
14:00-16:00	Track J: Technical Session 10 - Langevin (HH Alumni Lounge)
16:00-16:30	Coffee Break (HH Lobby)
18:00-20:30	Conference Dinner (Bridgeport Arts Center)
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Thu, Jul 31	Session
08:30-17:30	Registration Desk Open (HH Lobby)
09:00-10:00	Plenary Talk by Uros Seljak, UC Berkeley, Gradient-Based MCMC Sampling: Meth-
	ods and Optimization Strategies (HH Auditorium)
10:00-10:30	Coffee Break (HH Lobby)
10:30-12:30	Track A: QMC and Applications Part I (HH Auditorium)
10:30-12:30	Track B: Analysis of Langevin and Related Sampling Algorithms, Part I (HH Ball-
	room)
10:30-12:30	Track C: Nested expectations: models and estimators, Part II (PH Auditorium)
10:30-12:30	Track D: Technical Session 8 - Finance (WH Auditorium)
10:30-12:30	Track E: Technical Session 13 - ML & Optimization (HH Alumni Lounge)
12:30-14:00	Lunch Break ()
14:00-15:00	Plenary Talk by Nicolas Chopin, Institut Polytechnique de Paris, Saddlepoint Monte
	Carlo and its application to exact ecological inference (HH Auditorium)
15:00-15:30	Coffee Break (HH Lobby)
15:30-17:30	Track F: QMC and Applications Part II (HH Auditorium)
15:30-17:30	Track G: Analysis of Langevin and Related Sampling Algorithms, Part II (HH Ball-
	room)
15:30-17:30	Track H: Recent Advances in Stochastic Gradient Descent (PH Auditorium)
15:30-17:30	Track I: Technical Session 7 - Sampling (WH Auditorium)
15:30-17:30	Track J: Technical Session 11 - SDEs (HH Alumni Lounge)
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Fri, Aug 1	Session
08:30-12:15	Registration Desk Open (HH Lobby)
09:00-10:30	Track A: Forward and Inverse Problems for Stochastic Reaction Networks (HH Au-
	ditorium)
09:00-10:30	Track B: Hardware or Software for (Quasi-)Monte Carlo Algorithms, Part II (HH
	Ballroom)
09:00-10:30	Track C: Technical Session 3 - Simulation (PH Auditorium)
09:00-10:30	Track D: Technical Session 9 - Sampling (WH Auditorium)
09:00-10:30	Track E: Technical Session 14 - Markov Chain Monte Carlo (HH Alumni Lounge)
10:30-11	Coffee Break (HH Lobby)
11:00-12:00	Plenary Talk by Veronika Ročková, U of Chicago, AI-Powered Bayesian Inference
11.00 12.00	(HH Auditorium)
12:00-12:15	Closing Remarks (HH Auditorium)
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10:00-10:30	Coffee Break				
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	Auditorium	Ballroom	Auditorium	Auditorium	Track E: Technical Session
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	Complexity, Part I p. 30	p. 31	estimators, Part I p. 32	(Quasi-)Monte Carlo	Chair: TBD
	Chair: <i>TBD</i>	Chair: TBD	Chair: TBD	Algorithms, Part J p. 33 Chair TBD	
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	strong order 1.5 boundary	Zepernick, Domain UQ	Adaptive Sampling	Multilevel quasi-Monte	Stereographic Multi-Try
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	defined in a domain, p. 70	using QMC, p. 72			p. 137
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	An adaptive Milstein-type	Domain Uncertainty	Double-loop randomized	nested Multilevel Monte	rejection-free samplers by
	method for strong	Quantification for	quasi-Monte Carlo	Carlo framework for	rebalancing skew-balanced
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	of SDEs with a	Scattering via First-Order	integration, p. 75	FPGAs, p. 78	
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		Approximation, p. 73			
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	order 1 adaptive	uncertainty in spectral	Posterior-Free A-Optimal	implementation of MLMC	Theoretical guarantees for
	approximation of	clusterings: expectations	Bayesian Design of	on NVIDIA GPUs, p. 79	lifted samplers, p. 139
	jump-diffusion SDEs with	for perturbed and	Experiments via		
	discontinuous drift, p. 71	incomplete data, p. 74	Conditional Expectation,		
			p. 76		
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		Uncertain Domains, p. 74	experimental design with	Sampling with UMBridge,	
			application to inverse	p. 80	
			problems governed by PDEs p. 77		

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	of Klagenfurt, An optimal transport approach to quantifying model uncertainty of	Special Session,PH Auditorium Track C: Advances in Adaptive Hamiltonian Monte Carlo p. 53 Chair: TBD	Bob Carpenter, GIST: Gibbs self-tuning for locally adapting Hamiltonian Monte Carlo, p. 111	Nawaf Bou-Rabee, Acceleration of the No-U-Turn Sampler, p. 111	Chirag Modi, ATLAS: Adapting Trajectory Lengths and Step-Size for Hamiltonian Monte Carlo, p. 112	Trevor Campbell, AutoStep: Locally adaptive involutive MCMC, p. 113
0	Michaela Szölgyenyi, U of Klagenfu Chair: Gunther Leobacher	Special Session,HH Ballroom Track B: Statistical Design of Experiments p. 51 Chair: TBD	Simon Mak, Respecting the boundaries: Space-filling designs for surrogate modeling with boundary information, p. 108	Chih-Li Sung, Stacking designs: designing multi-fidelity computer experiments with target predictive accuracy, p. 109	Qian Xiao, Optimal design of experiments with quantitative-sequence factors, p. 110	Chaofan Huang, Factor Importance Ranking and Selection using Total Indices, p. 110
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		t Monte Carlo and its ap		WH Auditorium	Track I: Technical Session	7 - Sampling Chair: $TBD$	Ollalı. 1 <i>DD</i>		Kun-Lin Kuo, Revisiting	the Gibbs Sampler: A	Conditional Modeling	Perspective, p. 156		Sascha Holl,	Concatenation of Markov processes for Monte Carlo	Integration, p. 156			Josephine Westermann,	Folynomial approximation	transport-based sampling	p. 158		Soumyadip Ghosh, Fast	Approximate Matrix	Inversion via MCMC for	Linear System Solvers,	p. 158	
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08:30-12:15	Registration Desk Open				
	Special Session,HH	Special Session,HH	PH Auditorium	WH Auditorium	HH Alumni Lounge
	Auditorium	Ballroom	Track C: Technical Session	Track D: Technical Session	Track E: Technical Session
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12:00-12:15	Closing Remarks by TBD, HH Auditorium	IH Auditorium			

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