

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	Stochastic Computation and Complexity, Part I (HH Auditorium)
10:30-12:30	Domain Uncertainty Quantification (HH Ballroom)
10:30-12:30	Nested expectations: models and estimators, Part I (PH Auditorium)
10:30-12:30	Hardware or Software for (Quasi-)Monte Carlo Algorithms, Part I (WH Auditorium)
10:30-12:30	Technical Session - Markov Chain Monte Carlo (HH Alumni Lounge)
12:30-14:00	Lunch Break (MTCC Commons)
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	Stochastic Computation and Complexity, Part II (HH Auditorium)
15:30–17:30	Recent advances in optimization under uncertainty (HH Ballroom)
15:30–17:30	Computational Methods for Low-discrepancy Sampling and Applications (PH Auditorium)
15:30-17:30	Technical Session - Quasi-Monte Carlo, Part 1 (WH Auditorium)
15:30–17:30	Technical Session - PDEs (HH Alumni Lounge)
17:30-19:30	Welcome Reception (HH Lobby)
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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	Stochastic Computation and Complexity, Part III (HH Auditorium)
10:30-12:30	Next-generation optimal experimental design: theory, scalability, and real world impact: Part I (HH Ballroom)
10:30-12:30	Heavy-tailed Sampling (PH Auditorium)
10:30-12:30	Frontiers in (Quasi-)Monte Carlo and Markov Chain Monte Carlo Methods, Part I
	(WH Auditorium)
10:30-12:30	Technical Session - Bayesian Methods (HH Alumni Lounge)
12:30-14:00	Lunch Break (On your own)
14:00-15:00	Plenary Talk by Roshan Joseph, Georgia Institute of Technology, Sensitivity and
	Screening: From Monte Carlo to Experimental Design (HH Auditorium)
15:00-15:30	Coffee Break (HH Lobby)
15:30–17:30	Stochastic Computation and Complexity, Part IV (HH Auditorium)
15:30–17:30	Next-generation optimal experimental design: theory, scalability, and real world im-
15.20 17.20	pact: Part II (HH Ballroom) Advances in Rare Events Simulation (PH Auditorium)
15:30–17:30	
15:30–17:30	Frontiers in (Quasi-)Monte Carlo and Markov Chain Monte Carlo Methods, Part II (WH Auditorium)
15:30-17:30	Technical Session - Quasi-Monte Carlo, Part 2 (HH Alumni Lounge)
18:00-20:00	Chicago White Sox vs. Philadelphia Phillies (must purchase tickets beforehand) (Meet in HH Lobby)
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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
	to quantifying model uncertainty of SDEs (HH Auditorium)
10:00-10:30	Coffee Break (HH Lobby)
10:30-12:30	Stochastic Computation and Complexity, Part V (HH Auditorium)
10:30-12:30	Statistical Design of Experiments (HH Ballroom)
10:30-12:30	Advances in Adaptive Hamiltonian Monte Carlo (PH Auditorium)
10:30-12:30	Technical Session - Simulation (WH Auditorium)
10:30-12:30	Technical Session - Sampling (HH Alumni Lounge)
12:30-14:00	Lunch Break (On your own)
14:00-16:00	Stochastic Optimization (HH Auditorium)
14:00-16:00	Recent Progress on Algorithmic Discrepancy Theory and Applications (HH Ballroom
14:00-16:00	Monte Carlo Applications in High-performance Computing, Computer Graphics, and
	Computational Science (PH Auditorium)
14:00-16:00	Technical Session - Statistics (WH Auditorium)
16:00-16:30	Coffee Break (HH Lobby)
18:00-20:30	Conference Banquet (Bridgeport Art Center, 1200 W. 35th Street)
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	QMC and Applications Part I (HH Auditorium)
10:30-12:30	Analysis of Langevin and Related Sampling Algorithms, Part I (HH Ballroom)
10:30–12:30	Nested expectations: models and estimators, Part II (PH Auditorium)
10:30-12:30	Technical Session - Finance (WH Auditorium)
10:30-12:30	Technical Session - ML & Optimization (HH Alumni Lounge)
12:30-14:00	Lunch Break (On your own)
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	QMC and Applications Part II (HH Auditorium)
15:30–17:30	Analysis of Langevin and Related Sampling Algorithms, Part II (HH Ballroom)
15:30–17:30	Recent Advances in Stochastic Gradient Descent (PH Auditorium)
15:30–17:30	Technical Session - Sampling (WH Auditorium)
15:30–17:30	Technical Session - SDEs (HH Alumni Lounge)
18:00-20:30	Steering Committee Meeting (by invitation) (TBD)
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Fri, Aug 1	Session
08:30-12:15	Registration Desk Open (HH Lobby)
09:00-11:00	Forward and Inverse Problems for Stochastic Reaction Networks (HH Auditorium)

Fri, Aug 1  08:30-12:15  Registration Desk Open (HH Lobby)  09:00-11:00  Forward and Inverse Problems for Stochastic Reaction Networks (HH Auditorium)  09:00-11:00  Hardware or Software for (Quasi-)Monte Carlo Algorithms, Part II (HH Ballroom)  09:00-11:00  Technical Session - Simulation (PH Auditorium)  09:00-11:00  Technical Session - Markov Chain Monte Carlo (HH Alumni Lounge)  11:00-11:30  Coffee Break (HH Lobby)
08:30–12:15 Registration Desk Open (HH Lobby) 09:00–11:00 Forward and Inverse Problems for Stochastic Reaction Networks (HH Auditorium) 09:00–11:00 Hardware or Software for (Quasi-)Monte Carlo Algorithms, Part II (HH Ballroom) 09:00–11:00 Technical Session - Simulation (PH Auditorium) 09:00–11:00 Technical Session - Sampling (WH Auditorium) 09:00–11:00 Technical Session - Markov Chain Monte Carlo (HH Alumni Lounge)
09:00–11:00 Forward and Inverse Problems for Stochastic Reaction Networks (HH Auditorium) 09:00–11:00 Hardware or Software for (Quasi-)Monte Carlo Algorithms, Part II (HH Ballroom) 09:00–11:00 Technical Session - Simulation (PH Auditorium) 09:00–11:00 Technical Session - Markov Chain Monte Carlo (HH Alumni Lounge)
09:00–11:00 Hardware or Software for (Quasi-)Monte Carlo Algorithms, Part II (HH Ballroom) 09:00–11:00 Technical Session - Simulation (PH Auditorium) 09:00–11:00 Technical Session - Sampling (WH Auditorium) 09:00–11:00 Technical Session - Markov Chain Monte Carlo (HH Alumni Lounge)
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11:00 11:20 Coffee Brook (HH Lobby)
11.00-11.50 Conee Dreak (III Lobby)
11:30–12:30 Plenary Talk by Veronika Ročková, U of Chicago, AI-Powered Bayesian Inference (HH
Auditorium)
12:30–12:45 Closing Remarks (HH Auditorium)

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## Mon, Jul 28, 2025 – Morning

08:00-17:30	Pariety tion Dock Open							
08:45-09:00	1 ,	Registration Desk Open, HH Lobby						
	Conference Opening by Fred Hickernell, HH Auditorium							
9:00 - 10:00		TBD Plenary Talk: Rohan Sawhney, p. ?? Chair: TBD						
10:00-10:30	Coffee Break, HH Lobby	Sawnney, p. :: Cha	ar: IBD					
10:00-10:50	HH Auditorium	HH Ballroom	PH Auditorium	WH Auditorium	IIII Alumani I aun ma			
	Special Session		Special Session	Special Session	HH Alumni Lounge Technical Session -			
	Stochastic Stochastic	Special Session Domain Uncertainty	Nested expectations:	Hardware or Software	Markov Chain Monte			
	Computation and	Quantification p. 47	models and estimators,	for (Quasi-)Monte	Carlo			
	Complexity, Part I p. 46	Chair:	Part I p. 48	Carlo Algorithms, Part	Chair: Philip Gagnon			
	Chair: Stefan Heinrich	André-Alexander	Chair: Arved Bartuska	I p. 49	Chan. Thuip Gagnon			
	Chan. Stefan Henrich	Zepernick	Chan. 11 oca Bartaska	Chair: Sou-Cheng Choi				
10:30-11:00	Andreas Neuenkirch, A	André-Alexander	Abdul Lateef Haji Ali,	Pieterjan Robbe,	Zhihao Wang,			
10.50 11.00	strong order 1.5	Zepernick, Domain UQ	An Adaptive Sampling	Multilevel quasi-Monte	Stereographic			
	boundary-preserving	for stationary and	Algorithm for Level-set	Carlo without	Multi-Try Metropolis			
	discretization scheme	time-dependent PDEs	Approximation, p. 90	replications, p. 93	Algorithms for			
	for scalar SDEs defined	using QMC, p. 87	ripproximation, p. 50	replications, p. 56	Heavy-tailed Sampling,			
	in a domain, p. 84	asing Qiric, p. or			p. 170			
11:00-11:30	Christopher Rauhögger,	Carlos Jerez-Hanckes,	Vinh Hoang,	Irina-Beatrice Haas, A	Ruben Seyer, Creating			
	An adaptive	Domain Uncertainty	Posterior-Free	nested Multilevel	rejection-free samplers			
	Milstein-type method	Quantification for	A-Optimal Bayesian	Monte Carlo framework	by rebalancing			
	for strong	Electromagnetic Wave	Design of Experiments	for efficient simulations	skew-balanced jump			
	approximation of	Scattering via	via Conditional	on FPGAs, p. 93	processes, p. 171			
	systems of SDEs with a	First-Order Sparse	Expectation, p. 91	, <del>-</del>				
	discontinuous drift	Boundary Element						
	coefficient, p. 85	Approximation, p. 88						
11:30-12:00	Verena Schwarz,	Jürgen Dölz,	Vesa Kaarnioja, QMC	Mike Giles, CUDA	$Philippe\ Gagnon,$			
	Strong order 1 adaptive	Quantifying uncertainty	for Bayesian optimal	implementation of	Theoretical guarantees			
	approximation of	in spectral clusterings:	experimental design	MLMC on NVIDIA	for lifted samplers,			
	jump-diffusion SDEs	expectations for	with application to	GPUs, p. 94	p. 172			
	with discontinuous drift	perturbed and	inverse problems					
	, p. 86	incomplete data, p. 89	governed by PDEs,					
			p. 92					
12:00-12:30	Toni Karvonen,	Harri Hakula, Model		Chung Ming Loi,				
	Approximation in	Problems for PDEs on		Scalable and				
	Hilbert spaces of the	Uncertain Domains,		User-friendly QMC				
	Gaussian and related	p. 90		Sampling with				
	analytic kernels, p. 86			UMBridge, p. 95				

Mon, Jul 28, 2025 - Afternoon

		U25 – Afternoon			
12:30-14:00	Lunch Break, MTCC Co	mmons			
14:00-15:00	HH Auditorium				
	Plenary Talk: Christ	tiane Lemieux, U of Wa	terloo, Golden ratio ne	ts and sequences, p. 36	Chair: Nathan Kirk
15:00-15:30	Coffee Break, HH Lobby				
	HH Auditorium	HH Ballroom	PH Auditorium	WH Auditorium	HH Alumni Lounge
	Special Session	Special Session	Special Session	Technical Session -	Technical Session -
	Stochastic	Recent advances in	Computational	Quasi-Monte Carlo,	PDEs
	Computation and	optimization under	Methods for	Part 1	Chair: Håkon Hoel
	Complexity, Part II	uncertainty p. 52	Low-discrepancy	Chair: Peter Kritzer	
	p. 51	Chair: Phillip A. Guth	Sampling and		
	Chair: Larisa		Applications p. 53		
	Yaroslavtseva		Chair: Nathan Kirk		
15:30-16:00	$Michael\ Gnewuch,$	Tapio Helin, Stability	François Clément,	Christian Weiss,	Miguel Alvarez, A New
	Optimality of	of Expected Utility in	Searching Permutations	Halton Sequences,	Approach for Unbiased
	deterministic and	Bayesian Optimal	for Constructing	Scrambling and the	Estimation of
	randomized	Experimental Design,	Low-Discrepancy Point	Inverse	Parameters of Partially
	QMC-cubatures on	p. 99	Sets and Investigating	Star-Discrepancy,	Observed Diffusions,
	several scales of		the Kritzinger Sequence	p. 181	p. 206
	function spaces, p. 96		, p. 102		
16:00-16:30	Kateryna Pozharska,	$Karina\ Koval,$	Nathan Kirk,	Sifan Liu, Transport	Håkon Hoel, High-order
	Optimal designs for	Subspace accelerated	Minimizing the Stein	Quasi-Monte Carlo,	adaptive methods for
	function discretization	measure transport	Discrepancy, p. 103	p. 182	exit times of diffusion
	and construction of	methods for fast and			processes and reflected
	tight frames, p. 97	scalable sequential			diffusions, p. 207
		experimental design,			
1000 1500	D	p. 100	16.1	4 7	
16:30–17:00	Leszek Plaskota,	Johannes Milz,	Makram Chahine,	Ambrose	
	Complexity of	Randomized	Improving Efficiency of	Emmett-Iwaniw, Using	
	approximating	quasi-Monte Carlo	Sampling-based Motion	Normalizing Flows for	
	piecewise smooth functions in the	methods for risk-averse	Planning via Message-Passing Monte	Efficient Quasi-Random	
	presence of	stochastic optimization, p. 101	Carlo, p. 104	Sampling for Copulas, p. 182	
	deterministic or	p. 101	Carlo, p. 104	p. 182	
	random noise, p. 98				
17:00-17:30	Larysa Matiukha, The	Arved Bartuska,	Gregory Seljak, An	Claude Hall,	
17.00-17.30	Quality of Lattice	Efficient expected	Empirical Evaluation of	Optimization of	
	Sequences, p. 98	information gain	Robust Estimators for	Kronecker Sequences,	
	bequences, p. 36	estimators based on the	RQMC, p. 105	p. 183	
		randomized	16&11C, p. 100	p. 100	
		quasi-Monte Carlo			
		method, p. 102			
17:30-19:30	Welcome Reception, HH				
11.00 10.00	steeme recopion, iiii	J			

Tue, Jul 29, 2025 - Morning

	Tue, Jui 29, 20				
08:30-17:30	Registration Desk Open,	HH Lobby			
09:00-10:00	HH Auditorium				
		Glynn, Stanford U, Co.	mbining  Simulation  and	$l\ Linear\ Algebra:\ COSI$	MLA, p. $37$ Chair:
	Chang-Han Rhee				
10:00-10:30	Coffee Break, HH Lobby				
	HH Auditorium	HH Ballroom	PH Auditorium	WH Auditorium	HH Alumni Lounge
	Special Session	Special Session	Special Session	Special Session	Technical Session -
	Stochastic	Next-generation	Heavy-tailed Sampling	Frontiers in	Bayesian Methods
	Computation and	optimal experimental	p. 58	(Quasi-)Monte Carlo	Chair: Hamza Ruzayqat
	Complexity, Part III	design: theory,	Chair: Sebastiano	and Markov Chain	
	p. 55	scalability, and real	Grazzi	Monte Carlo Methods,	
	Chair: Leszek Plaskota	world impact: Part I		Part I p. 60	
		p. 56		Chair: Sou-Cheng Choi	
		Chair: Alen			
		Alexanderian			
10:30-11:00	Jean-François	Xun Huan, Optimal	$Sebastiano\ Grazzi,$	Jonathan Weare,	Lorenzo Nagar,
	Chassagneux,	Pilot Sampling for	Parallel computations	Functional estimation	Optimizing Generalized
	Computing the	Multi-fidelity Monte	for Metropolis Markov	of the marginal	Hamiltonian Monte
	stationary measure of	Carlo Methods, p. 109	chains based on Picard	likelihood, p. 114	Carlo for Bayesian
	McKean-Vlasov SDEs,		maps, p. 111		Inference applications,
	p. 106				p. 173
11:00-11:30	dos reis, TBD, p. 107	Adrien Corenflos, A	Federica Milinanni, A	Nikhil Bansal,	Hamza Ruzayqat,
		recursive Monte Carlo	large deviation principle	Randomized QMC	Bayesian Anomaly
		approach to optimal	for Metropolis-Hastings	Methods via	Detection in
		Bayesian experimental	sampling, p. 112	Combinatorial	Variable-Order and
		design, p. 110		Discrepancy, p. 115	Variable-Diffusivity
					Fractional Mediums,
11.20 12.00	Nonfal Enilsh a On the	Accord Dollardii	Vin and Was a Cham	Michael Massacci The	p. 175
11:30-12:00	Noufel Frikha, On the	Ayoub Belhadji,	Xingyu Wang, Sharp Characterization and	Michael Mascagni, The	Arghya Datta, Theoretical Guarantees
	convergence of the Euler-Maruyama	Weighted quantization using MMD: From	Control of Global	Walk on Spheres Monte Carlo Algorithm for	of Mean Field
	scheme for	mean field to mean	Dynamics of SGDs with	Solving Partial	Variational Inference
	McKean-Vlasov SDEs,	shift via gradient flows,	Heavy Tails, p. 113	Differential Equations,	for Bayesian Principal
	p. 107	p. 111	neavy rans, p. 115	p. 116	Component Analysis,
	p. 107	p. 111		p. 110	p. 176
12:00-12:30	Sotirios Sabanis,			Hwanwoo Kim,	Jimmy Lederman,
12.00 12.00	Wasserstein			Enhancing Gaussian	Bayesian Analysis of
	Convergence of			Process Surrogates for	Latent Underdispersion
	Score-based Generative			Optimization and	Using Discrete Order
	Models under			Posterior	Statistics, p. 177
	Semiconvexity and			Approximation via	, p. 111
	Discontinuous			Random Exploration,	
	Gradients, p. 108			p. 117	

Tuo Jul 20, 2025 - Afternoon

	Tue, Jul 29, 20	25 - Afternoon						
12:30-14:00	Lunch Break, On your ov	vn						
14:00-15:00	HH Auditorium							
	Plenary Talk: Rosha	Plenary Talk: Roshan Joseph, Georgia Institute of Technology, Sensitivity and Screening: From Monte Carlo to						
	${\it Experimental \ Design},$	p. 38 Chair: Simon M	Iak					
15:00-15:30	Coffee Break, HH Lobby							
	HH Auditorium	HH Ballroom	PH Auditorium	WH Auditorium	HH Alumni Lounge			
	Special Session	Special Session	Special Session	Special Session	Technical Session -			
	Stochastic	Next-generation	Advances in Rare	Frontiers in	Quasi-Monte Carlo,			
	Computation and	optimal experimental	Events Simulation p. 64	(Quasi-)Monte Carlo	Part 2			
	Complexity, Part IV,	design: theory,	Chair: Shyam Mohan	and Markov Chain	Chair: Christian Weiss			
	p. 61	scalability, and real	Subbiah Pillai	Monte Carlo Methods,				
	Chair: Thomas	world impact: Part II		Part II p. 66				
	Müller-Gronbach	p. 62		Chair: Sou-Cheng Choi				
		Chair: Xun Huan						
15:30-16:00	$Larisa\ Yaroslavtseva,$	Alen Alexanderian,	Victor Elvira, Multiple	$Takashi\ Goda,$	Peter Kritzer,			
	Optimal strong	Goal-Oriented Sensor	Importance Sampling	Quasi-uniform	Approximation using			
	approximation of SDEs	Placement for	for Rare Event	quasi-Monte Carlo	median lattice			
	with Hölder continuous	Infinite-Dimensional	Simulation in	digital nets, p. 126	algorithms, p. 184			
	drift coefficient, p. 117	Bayesian Inverse	Communication					
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16:00-16:30	Gunther Leobacher,	jacopo iollo,	Bruno Tuffin,	isaacson, TBD, p. 126	Yang Liu, Convergence Rates of Randomized			
	Tractability of $L_2$ -approximation and	Diffusion-Based Bayesian Experimental	Asymptotic robustness of smooth functions of		Quasi-Monte Carlo			
	$L_2$ -approximation and integration in weighted	Design: Advancing	rare-event estimators,		Methods under Various			
	Hermite spaces of finite	BED for Practical	p. 123		Regularity Conditions,			
	smoothness, p. 118	Applications, p. 121	p. 120		p. 185			
16:30-17:00	Alexander Steinicke,	Tommie Catanach,	Eya Ben Amar,	Ziang Niu, Boosting	Jakob Dilen, Use of			
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	of Lipschitz SDEs and	Optimal Experimental	Methods with	generative models by	Fourier neural operator,			
	BSDEs and an	Design under Model	Stochastic Differential	(Quasi-)Monte Carlo	p. 186			
	Application to	Misspecification, p. 122	Equations for the	resampling, p. 127	•			
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	Forward-Backward		Tail of the CCDF of the					
	SDEs, p. 119		Fade Duration, p. 124					
17:00-17:30	Fred J. Hickernell, A		Shyam Mohan Subbiah	Chenyang Zhong, A	$Aadit\ Jain,$			
	Unified Treatment of		Pillai, Estimating rare	hit-and-run approach	Investigating the			
	Tractability for		event probabilities	for sampling and	Optimum RQMC Batch			
	Approximation		associated with	analyzing ranking	Size for Betting and			
	Problems Defined on		McKean-Vlasov SDEs,	models, p. 128	Empirical Bernstein			
	Hilbert Spaces, p. 119		p. 125		Confidence Intervals,			
10.00.00.00	Cl. Will C		1 (11 1 2 2 1	) M	p. 186			
18:00-20:00	Chicago White Sox vs. P	'hiladelphia Phillies (must j	purchase tickets beforehand	), Meet in HH Lobby				

 $Wed,\,Jul\,\,30,\,2025-Morning$ 

08:30-16:30	Registration Desk Open,							
09:00-10:00	HH Auditorium							
		Plenary Talk: Michaela Szölgyenyi, U of Klagenfurt, An optimal transport approach to quantifying model						
	uncertainty of SDEs,							
10:00-10:30	Coffee Break, HH Lobby							
	HH Auditorium	HH Ballroom	PH Auditorium	WH Auditorium	HH Alumni Lounge			
	Special Session	Special Session	Special Session	Technical Session -	Technical Session -			
	Stochastic	Statistical Design of	Advances in Adaptive	Simulation	Sampling			
	Computation and	Experiments p. 68	Hamiltonian Monte	Chair: Toon Ingelaere	Chair: Nicola			
	Complexity, Part V,	Chair: Simon Mak	Carlo p. 69		Branchini			
	p. 67		Chair: Art Owen					
	Chair: Andreas							
	Neuenkirch							
10:30-11:00	Stefan Heinrich, On	Simon Mak, Respecting	Bob Carpenter, GIST:	Philippe Blondeel,	Akash Sharma,			
	the quantum	the boundaries:	Gibbs self-tuning for	Combining quasi-Monte	Sampling with			
	complexity of	Space-filling designs for	locally adapting	Carlo with Stochastic	constraints, p. 187			
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	in Sobolev spaces,	with boundary	Carlo, p. 134	Trajectory				
	p. 128	information, p. 131		Optimization of				
				Autonomous Vehicles in				
				Mine Counter Measure				
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11:00-11:30	Bernd Käßemodel,	Andrews Boahen,	Nawaf Bou-Rabee,	Rino Persiani, A	Joonha Park, Sampling			
	Quantum Integration in	Active Learning for	Acceleration of the	Monte Carlo Approach	from high-dimensional,			
	Tensor Product Besov	Nonlinear Calibration,	No-U-Turn Sampler,	to Designing a Novel	multimodal			
	Spaces, p. 129	p. 132	p. 135	Sample Holder for Enhanced UV-Vis	distributions using automatically tuned,			
				Spectroscopy, p. 216	tempered Hamiltonian			
				spectroscopy, p. 210	Monte Carlo, p. 188			
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11.00 12.00	Taming the Interacting	design of experiments	Adapting Trajectory	ARCANE Reweighting:	Localized			
	Particle Langevin	with	Lengths and Step-Size	A technique to tackle	consensus-based			
	Algorithm — The	quantitative-sequence	for Hamiltonian Monte	the sign problem in the	sampling for			
	Superlinear Case, p. 130	factors, p. 132	Carlo, p. 136	simulation of collider	non-Gaussian			
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				physics, p. 217	, 1			
12:00-12:30	Iosif Lytras, Sampling	Chaofan Huang, Factor	Trevor Campbell,	Nicole Aretz,	Alex Shkolnik,			
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				Sheet Simulations,				
				p. 218				

## Wed, Jul 30, 2025 – Afternoon

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14:30-15:00	Raghu Pasupathy, Interior-Point Frank-Wolfe (IPFW) for Linearly Constrained Functional Optimization Over Probability Spaces, p. 138	Peng Zhang, Improving the Design of Randomized Experiments via Discrepancy Theory, p. 141	Sharanya Jayaraman, Examining the Fault Tolerance of High-Performance Monte Carlo Applications through Simulation, p. 144	Carles Domingo-Enrich, Cheap permutation testing, p. 220	
15:00–15:30	Shane Henderson, A New Convergence Analysis of Two Stochastic Frank-Wolfe Algorithms, p. 139	Aleksandar Nikolov, Online Factorization for Online Discrepancy Minimization, p. 142	sawahney, TBD, p. 145	Christopher Draper, Moving PCG beyond LCGs, p. 221	
15:30–16:00	Akshita Gupta, Stochastic Gradient with Testing Functionals, p. 140		Silei Song, WoS-NN: Collaborating Walk-on-Spheres with Machine Learning to Solve Elliptic PDEs, p. 145	Yiming Xu, Hybrid least squares for learning functions from highly noisy data, p. 221	

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	Strategies, p. 40 Chair: Tim Hobbs							
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				Motion	Fast Interpolation			
				Expectation-based	Approach, p. 210			
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