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)

 $\frac{06/06/2025 \ 15:15}{06/06/2025 \ 15:15}$

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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)
18:00-20:30	Steering Committee Meeting (by invitation) ()
	3
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)
12.00-12.10	Crossing Technicists (1111 Auditorium)

 $06/06/2025 \ 15:15$

- Morning
2025
Jul 28,
Mon,

08:00-17:30	Registration Desk Open	on Desk Open			
08:45-09:00 $9:00-10:00$	Conference Opening by Fred Hickernell, HH Auditorium Plenary Talk: Rohan Sawhney, p. ?? Chair:	Hickernell, HH Auditorium whney, p. ?? Chair:			
10:00-10:30	Coffee Break				
	Special Session,HH	Special Session,HH	Special Session,PH	Special Session,WH	HH Alumni Lounge
	Auditorium	Ballroom	Auditorium	Auditorium	Track E: Technical Session
	Track A: Stochastic	Track B: Domain	Track C: Nested	Track D: Hardware or	1 - Markov Chain Monte
	Computation and	Uncertainty Quantification	expectations: models and	Software for	Carlo
	Complexity, Part I p. 30	p. 31	estimators, Part I p. 32	(Quasi-)Monte Carlo	Chair: TBD
	Chair: TBD	Chair: TBD	Chair: TBD	Algorithms, Part J p. 33	
0	,	,		Chair: 1BD	
10:30–12:30	Andreas Neuenkirch, A	$Andr\'e-Alexander$	Abdul Lateef Haji Ali, An	Pieterjan Robbe,	Zhihao Wang,
	strong order 1.5 boundary	Zepernick, Domain UQ	Adaptive Sampling	Multilevel quasi-Monte	Stereographic Multi-Try
	preserving discretization	for stationary and	Algorithm for Level-set	Carlo without replications,	Metropolis Algorithms for
	scheme for scalar SDEs	time-dependent PDEs	Approximation, p. 69	p. 72	Heavy-tailed Sampling,
	defined in a domain, p. 64	using QMC, p. 66			p. 130
10:30-12:30	Christopher Rauhögger,	Carlos Jerez-Hanckes,	$Sebastian\ Krumscheid,$	Irina-Beatrice Haas, A	Ruben Seyer, Creating
	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
	approximation of systems	Electromagnetic Wave	estimator for nested	efficient simulations on	jump processes, p. 131
	of SDEs with a	Scattering via First-Order	integration, p. 69	FPGAs, p. 72	
	discontinuous drift	Sparse Boundary Element			
	coefficient, p. 64	Approximation, p. 67			
10.30 - 12.30	Verena Schwarz, Stong	Jürgen Dölz, Quantifying	$Vinh\ Hoang,$	Mike Giles, CUDA	$Philippe\ Gagnon,$
	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. 73	lifted samplers, p. 132
	jump-diffusion SDEs with	for perturbed and	Experiments via		
	discontinuous drift, p. 65	incomplete data, p. 68	Conditional Expectation,		
			p. 70		
10:30–12:30		Harri Hakula, Model Problems for PDFs on	Vesa Kaarnioja, QMC for Bavesian ontimal	Chung Ming Loi, Scalable and User-friendly OMC	
		Uncertain Domains, p. 68	experimental design with	Sampling with UMBridge,	
			application to inverse	p. 74	
			problems governed by PDFs n 71		
			1 7 To 1.		

 $\frac{06/06/2025 \ 15:15}{12}$

- Afternoon
2025
$\frac{28}{8}$
Jul
Mon,

			Chair: Nathan Kirk		HH Alumni Lounge	Track J: Technical Session	12 - PDEs	Chair: TBD				Adrien Richou, A	probabilistic Numerical	method for semi-linear	elliptic Partial Differential	Equations, p. 163		Abdujabar Rasulov, Monte	Carlo method for the	Spatially Homogenous	Boltzmann equation,	p. 163		Miguel Alvarez, A New	Approach for Unbiased	Estimation of Parameters	of Partially Observed	Diffusions, p. 164		$Håkon\ Hoel$, High-order	adaptive methods for exit	times of diffusion processes	and reflected diffusions,	
					WH Auditorium	Track I: Technical Session	4 - Quasi-Monte Carlo,	Part 1	Chair: TBD			Christian Weiss, Halton	Sequences, Scrambling and	the Inverse	Star-Discrepancy, p. 140			Xiaoda Xu, Star	discrepancy and uniform	approximation under	weighted simple and	stratified random sampling	, p. 141	Sifan Liu, Transport	Quasi-Monte Carlo, p. 142					$Ambrose\ Emmett-Iwaniw,$	Using Normalizing Flows	for Efficient	Quasi-Random Sampling for Copulas, p. 143	or and among the real
			of Waterloo, Golden ratio nets and sequences, p. 22		Special Session,PH	Auditorium	Track H: Computational	Methods for	Low-discrepancy Sampling	and Applications p. 37	Chair: TBD	François Clément,	Searching Permutations	for Constructing	Low-Discrepancy Point	Sets and Inverstigating the	Kritzinger Sequence, p. 80	Nathan Kirk, Minimizing	the Stein Discrepancy,	p. 81				Makram Chahine,	Improving Efficiency of	Sampling-based Motion	Planning via	Message-Passing Monte	Carlo, p. 81	Gregory Seljak, An	Empirical Evaluation of	Robust Estimators for	RQMC, p. 82	
Alternoon			Christiane Lemieux, U of Waterloo,		Special Session,HH	Ballroom	Track G: Recent advances	in optimization under	uncertainty p. 36	Chair: TBD		Tapio Helin, Stability of	Expected Utility in	Bayesian Optimal	Experimental Design, p. 77			Karina Koval, Subspace	accelerated measure	transport methods for fast	and scalable sequential	experimental design, p. 78		$Johannes\ Milz,$	Randomized quasi-Monte	Carlo methods for	risk-averse stochastic	optimization, p. 79		Arved Bartuska, Efficient	expected information gain	estimators based on the	randomized quasi-Monte Carlo method, p. 79	control transport L. 10
MINIT, Jul 20, 2020	Lunch Break	HH Auditorium	k:	Coffee Break	Special Session,HH	Auditorium	Track F: Stochastic	Computation and	Part IJ p. 35	Chair: TBD			Optimality of deterministic	and randomized	QMC-cubatures on several	scales of function spaces,	p. 74	,	Optimal designs for	function discretization and	construction of tight	frames, p. 76		Leszek Plaskota,	Complexity of	approximating piecewise	smooth functions in the	iistic	or random noise, p. 77					XX7.1 D 4:
	12:30–14:00	14:00-15:00		15:00-15:30								15:30-17:30						15:30–17:30						15:30-17:30						15:30-17:30				17.90 10.90

 $\frac{06/06/2025\ 15:15}{13}$

Morning
2025
29,
Jul
Tue,

	Chair: Chang-Han Rhee		HH Alumni Lounge	Track E: Technical Session	2 - Bayesian Methods	Chair: TBD				Lorenzo Nagar,	Optimizing Generalized	Hamiltonian Monte Carlo	for Bayesian Inference	applications, p. 133			Hamza Kuzayqat,	Bayesian Anomaly	Detection in	Variable-Order and	Variable-Diffusivity	Fractional Mediums, p. 134	Arghya Datta, Theoretical	Guarantees of Mean Field	Variational Inference for	Bayesian Principal	Component Analysis,	p. 135		Jimmy Lederman,	Bayesian Analysis of	Latent Underdispersion	Using Discrete Order Statistics in 135	Didustrica, p. 100
	Algebra: COSIMLA, p. 23		Special Session,WH	Auditorium	Track D: Frontiers in	(Quasi-)Monte Carlo and	Markov Chain Monte	Carlo Methods, Part J	p. 44 Chair: <i>TBD</i>	Hwanwoo Kim, Enhancing	Gaussian Process	Surrogates for	Optimization and	Posterior Approximation	via Random Exploration,	p. 90																		
	$U,\ Combining\ Simulation\ and\ Linear\ Algebra:\ COSIMLA,\ \mathrm{p.}\ 23$		Special Session,PH	Auditorium	Track C: Heavy-tailed	Sampling p. 42	Chair: TBD			Sebastiano Grazzi,	Parallel computations for	Metropolis Markov chains	Based on Picard maps,	p. 87			Federica Milinanni, A	large deviation principle	for Metropolis-Hastings	sampling, p. 88			Xingyu Wang, Sharp	Characterization and	Control of Global	Dynamics of SGDs with	Heavy Tails, p. 89							
	$Peter\ Glynn,\ Stanford\ U,\ Combinin$		Special Session,HH	Ballroom	Track B: Next-generation	optimal experimental		and real world impact:	Part J p. 40 Chair: TBD	Xun Huan, Optimal Pilot	Sampling for Multi-fidelity	Monte Carlo Methods,	p. 85			- - - -	Adrien Corențios, A	recursive Monte Carlo	approach to optimal	Bayesian experimental	design, p. 86		Ayoub Belhadji, Weighted	quantization using MMD:	From mean field to mean	shift via gradient flows,	p. 86							
Registration Desk Open	HH Auditorium Plenary Talk: Peter Glyn	Coffee Break	Special Session,HH	Auditorium	Track A: Stochastic	Computation and	Complexity, Part 111 p. 39	Chair: TBD		Jean-François	Chassagneux, Computing	the stationary measure of	McKean-Vlasov SDEs,	p. 83			Noufel Firkha, On the	convergence of the	Euler-Maruyama scheme	for McKean-Vlasov SDEs,	p. 83		Sotirios Sabanis,	Wasserstein Convergence	of Score-based Generative	Models under	Semiconvexity and	Discontinuous Gradients,	p. 84					
08:30-17:30	09:00–10:00	10:00-10:30								10:30-12:30							10:30-12:30						10:30-12:30							10:30-12:30				

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te Carlo to Experimental		HH Alumni Lounge Track J: Technical Session 5 - Quasi-Monte Carlo, Part 2 Chair: TBD	Peter Kritzer, Approximation using median lattice algorithms, p. 144	Yang Liu, Convergence Rates of Randomized Quasi-Monte Carlo Methods under Various Regularity Conditions, p. 144	Jakob Dilen, Use of rank-1 lattices in the Fourier neural operator, p. 145	Aadit Jain, Investigating the Optimum RQMC Batch Size for Betting and Empirical Bernstein Confidence Intervals, p. 145
and Screening: From Mon		Special Session,WH Auditorium Track I: Frontiers in (Quasi-)Monte Carlo and Markov Chain Monte Carlo Methods, Part IJ p. 49 Chair: TBD	Takashi Goda, Quasi-uniform quasi-Monte Carlo digital nets, p. 97	Ziang Niu, Boosting the inference for generative models by (Quasi-)Monte Carlo resampling, p. 98	Chenyang Zhong, A hit and run approach for sampling and analyzing ranking models, p. 99	
f Technology, Sensitivity		Special Session,PH Auditorium Track H: Advances in Rare Events Simulation p. 48 Chair: TBD	Victor Elvira, Multiple Importance Sampling for Rare Event Simulation in Communication Systems, p. 95	Bruno Tuffin, Asymptotic robustness of smooth functions of rare-event estimators, p. 95	Eya Ben Amar, Importance Sampling Methods with Stochastic Differential Equations for the Estimation of the Right Tail of the CCDF of the Fade Duration, p. 96	Shyam Mohan Subbiah Pillai, Estimating rare event probabilities associated with McKean-Vlasov SDEs, p. 96
Roshan Joseph, Georgia Institute of Technology, Sensitivity and Screening: From Monte Carlo to Experimental Chair: Simon Mak		Special Session,HH Ballroom Track G: Next-generation optimal experimental design: theory, scalability, and real world impact: Part II p. 46 Chair: TBD	Alen Alexanderian, Goal Oriented Sensor Placement for Infinite-Dimensional Bayesian Inverse Problems , p. 92	jacopo iollo, Diffusion-Based Bayesian Experimental Design: Advancing BED for Practical Applications, p. 93	Tommie Catanach, Robust Bayesian Optimal Experimental Design under Model Misspecification, p. 94	
Plenary Talk: Roshan J. Design, p. 24 Chair: Si	Coffee Break	Special Session,HH Auditorium Track F: Stochastic Computation and Complexity, Part IV, p. 45 Chair: TBD	Larisa Yaroslavtseva, Optimal strong approximation of SDEs with Hölder continuous drift coefficient, p. 90	Gunther Leobacher, Tractability of L_2 -approximation and integration in weighted Hermite spaces of finite smoothness, p. 91	Alexander Steinicke, Malliavin differentiation of Lipschitz SDEs and BSDEs and an Application to Quadratic Forward-Backward SDEs, p. 92	
14:00–15:00	15:00-15:30		15:30–17:30	15:30–17:30	15:30–17:30	15:30–17:30

 $\frac{06/06/2025\ 15:15}{15}$

$- { m Morning}$	
2025	
Jul 30,	
Wed,	

	odel uncertainty of	HH Alumni Lounge Track E: Technical Session 6 - Sampling Chair: <i>TBD</i>	Akash Sharma, Sampling with constraints, p. 146	Joonha Park, Sampling from high-dimensional, multimodal distributions using automatically tuned, tempered Hamiltonian Monte Carlo, p. 147	Arme Bouillon, Localized consensus-based sampling for non-Gaussian distributions, p. 148	Alex Shkolnik, Importance Sampling for Hawkes Processes, p. 148
	of Klagenfurt, An optimal transport approach to quantifying model uncertainty of	WH Auditorium Track D: Technical Session 15 - Simulation Chair: <i>TBD</i>	Philippe Blondeel, Combining quasi-Monte Carlo with Stochastic Optimal Control for Trajectory Optimization of Autonomous Vehicles in Mine Counter Measure Simulations, p. 172	Rino Persiani, A Monte Carlo Approach to Designing a Novel Sample Holder for Enhanced UV-Vis Spectroscopy, p. 173	Prasanth Shyamsundar, ARCANE Reweighting: A technique to tackle the sign problem in the simulation of collider events in high energy physics, p. 174	Nicole Aretz, Multifidelity and Surrogate Modeling Approaches for Uncertainty Quantification in Ice Sheet Simulations, p. 175
	rt, An optimal transport o	Special Session,PH Auditorium Track C: Advances in Adaptive Hamiltonian Monte Carlo p. ?? Chair: TBD	Bob Carpenter, GIST: Gibbs self-tuning for locally adapting Hamiltonian Monte Carlo, p. 105	Nawaf Bow-Rabee, Acceleration of the No-U-Turn Sampler, p. 105	Chirag Modi, ATLAS: Adapting Trajectory Lengths and Step-Size for Hamiltonian Monte Carlo, p. 106	Trevor Campbell, AutoStep: Locally adaptive involutive MCMC, p. 107
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. 102	Chih-Li Sung, Stacking designs: designing multi-fidelity computer experiments with target predictive accuracy, p. 103	Qian Xiao, Optimal design of experiments with quantitative-sequence factors, p. 104	Chaofan Huang, Factor Importance Ranking and Selection using Total Indices, p. 104
Registration Desk Open	m k:	Coffee Break Special Session,HH Auditorium Track A: Stochastic Computation and Complexity, Part V, p. 50 Chair: TBD	On the ty of tion in 100	Bernd Käßemodel, Quantum Integration in Tensor Product Besov Spaces, p. 100	Nikolaos Makras, Taming the Interacting Particle Langevin Algorithm — The Superlinear Case, p. 101	Iosif Lytras, Sampling with Langevin Dynamics from non-smooth and non-logconcave potentials., p. 101
08:30-16:30	09:00-10:00	10:00–10:30	10:30–12:30	10:30–12:30	10:30–12:30	10:30–12:30

 $06/06/2025 \ 15:15$ 16

Afternoon
2025 -
Jul 30,
Wed,

	wed, Jul 30, 2023 - Altermoni	o - Aitermoon			
12:30-14:00	Lunch Break				
	Special Session,HH	Special Session,HH	Special Session,PH	WH Auditorium	HH Alumni Lounge
	Auditorium	Ballroom	Auditorium	Track I: Technical Session	Track J: Technical Session
	Track F: Stochastic	Track G: Recent Progress	Track H: Monte Carlo	16 - Statistics	10 - Langevin
	Optimization p. 52	on Algorithmic	Applications in	Chair: TBD	Chair: TBD
	Chair: TBD	Discrepancy Theory and	High-performance		
		Applications p. 53	Computing, Computer		
		Chair: TBD	Graphics, and		
			Computational Science		
			b 54		
			Chair: TBD		
14:00-16:00	Raqhu Bollapraqada,	Haotian Jiana,	Arash Fahim, Gaining	Kazeem Adeleke,	Attila Lovas, Stochastic
	Monte Carlo Based	Algorithmic Discrepancy	efficiency in Monte Carlo	Empirical Statistical	gradient Langevin
	Adaptive Sampling	Theory: An Overview	policy gradient methods	Comparative Analysis of	dymamics with
	Approached for Ctochectic	ricoly: //m Overview,	for etochectic entime	COMPERCION CAMERA SES OF COMPETER SES OF COMPE	dynamics with
	Approaches for Stochastic	p. 109	control n 110	Sivi methabling Estimators and Cradient	non-stationary data; p. 191
	Openingation, p. 101		control, p. 110	Boosting Machines (GBM)	
				Heing Conotic Data from	
				the UK Biobank. p. 175	
14:00-16:00	Shane Henderson. A New	Pena Zhana, Improving	Silei Sona, WoS-NN:	Carles Domingo-Enrich.	Sara Pérez-Vieites,
	Convergence Analysis of	the Design of Randomized	Collaborating	Cheap permutation testing	Langevin-based strategies
	Two Stochastic	Experiments via	Walk-on-Spheres with	. p. 176	for nested particle filters.
	Frank-Wolfe Algorithms,	Discrepancy Theory,	Machine Learning to Solve	4	p. 158
	p. 108	p. 109	Ellip- tic PDEs, p. 111		1
14:00-16:00		$Aleksandar\ Nikolov,$		Christopher Draper,	
		Online Factorization for		Moving PCG beyond	
		Online Discrepancy		LCGs, p. 177	
		Minimization, p. 110			
14:00-16:00				Yiming Xu, Hybrid least	
				squares for learning	
				functions from highly	
				noisy data, p. 177	
16:00-16:30	Coffee Break				
18:00-20:30	Conference Dinner				

 $\frac{06/06/2025\ 15:15}{17}$

$- { m Morning}$
2025
Jul 31,
Thu, J

	on Strategies, p. 26		HH Alumni Lounge Track E: Technical Session	13 - ML & Optimization Chair: TBD	Frédéric Blondeel, Learning cooling strategies in simulated annealing through binary interactions, p. 166	Du Ouyang, Accuracy of Discretely Sampled Stochastic Policies in Continuous-Time Reinforcement Learning, p. 167	Wei Cai, Martingale deep neural networks for quasi-linear PDEs and stochastic optimal controls in 10,000 dimensions, p. 168	Yiqing Zhou, Minimizing Functions with Sparse Samples: A Fast Interpolation Approach, p. 168
	: Methods and Optimizati		WH Auditorium Track D: Technical Session	8 - Finance Chair: <i>TBD</i>	Matyokub Bakoev, The Stochastic Differential Equations of the Heston Model for Option Pricing, p. 152	Vincent Zhang, Characterizing Efficacy of Geometric Brownian Motion Expectation-based Simulations on Low-Volatility American Common Stocks, p. 153	Hao Quan, Efficient Pricing for Variable Annuity via Simulation, p. 155	
	$egin{aligned} Uros~Seljak,~UC~Berkeley,~Gradient-Based~MCMC~Sampling:~Methods~and~Optimization~Strategies,~\mathrm{p.}~26 \end{aligned}$		Special Session,PH Auditorium	Track C: Nested expectations: models and estimators, Part IJ p. 56 Chair: TBD	RAUL TEMPONE, Multilevel randomized quasi-Monte Carlo estimator for nested expectations, p. 117	Matteo Raviola, Stochastic gradient with least-squares control variates, p. 118	Philipp Guth, A one-shot method for Bayesian optimal experimental design, p. 119	
	ak, UC Berkeley, Gradien		Special Session,HH Ballroom	Track B: Analysis of Langevin and Related Sampling Algorithms, Part J p. ?? Chair: TBD	Krishnakumar Balasubramanian, Finite-Particle Convergence Rates for Stein Variational Gradient Descent, p. 114	Lihan Wang, Convergence rates of kinetic Langevin dynamics with weakly confining potentials, p. 115	Peter Whalley, Randomized Splitting Methods and Stochastic Gradient Algorithms, p. 116	Xiaoou Cheng, Delocalization of Bias in Unadjusted Hamiltonian Monte Carlo, p. 117
Registration Desk Open	HH Auditorium Plenary Talk: Uros Selji Chair: Tim Hobbs	Coffee Break	Special Session,HH Auditorium	Track A: QMC and Applications Part I p. 55 Chair: <i>TBD</i>	Felix Bartel, Exact discretization, tight frames and recovery via D-optimal designs, p. 112	Mou Cai, L2-approximation: using randomized lattice algorithms and QMC hyperinterpolation, p. 113	Zhijian He, High-dimensional density estimation on unbounded domain, p. 113	Frances Y. Kuo, Application of QMC to Oncology, p. 114
08:30-17:30	09:00-10:00	10:00-10:30			10:30–12:30	10:30–12:30	10:30–12:30	10:30–12:30

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12:30–14:00 14:00–15:00 15:00–15:30	Lunch Break HH Auditorium Plenary Talk: Nicolas Chaecological inference, p. 27 Coffee Break Special Session,HH Auditorium	Nicolas Chopin, Institut Polytechnique de Paris, Saddlepoint Monte Carlo and its application to exact ence, p. 27 Chair: Bruno Tuffin, HH Special Session, HH Special Session, HH Alumni Loun Carlo and its application to exact ence, p. 27 Chair: Bruno Tuffin Alumni Loun HH Alumni Loun Carlo and its application to exact ence, p. 27 Chair. Bruno Tuffin Alumni Loun HH Alumni Loun Carlo and its application to exact ence, p. 27 Chair. Bruno Tuffin Alumni Loun Carlo and its application to exact ence, p. 27 Chair. Bruno Tuffin Alumni Loun Carlo and its application to exact ence, p. 27 Chair. Bruno Tuffin Carlo and its application to exact ence, p. 27 Chair. Bruno Tuffin Carlo and its application to exact ence, p. 27 Chair. Bruno Tuffin Carlo and its application to exact ence, p. 27 Chair. Bruno Tuffin Carlo and its application to exact ence, p. 27 Chair. Bruno Tuffin Carlo and its application to exact ence, p. 27 Chair. Bruno Tuffin Carlo and its application to exact ence, p. 27 Chair. Bruno Tuffin Carlo and its application to exact ence, p. 27 Chair and its application to exact ence, p. 27 Chair and its application to exact ence, p. 27 Chair and its application to exact ence, p. 27 Chair and its application to exact ence, p. 27 Chair and its application to exact ence, p. 27 Chair and its application to exact ence, p. 27 Chair and its application to exact ence, p. 27 Chair and its application to exact ence, p. 27 Chair and its application to exact ence, p. 27 Chair and its application to exact ence, p. 27 Chair and its application to exact ence, p. 27 Chair and its application to exact ence, p. 27 Chair and its application to exact ence, p. 28 Chair and its application to exact ence, p. 27 Chair and its application to exact ence, p. 27 Chair and its application to exact ence, p. 27 Chair and its application to exact ence, p. 27 Chair and its application to exact ence, p. 27 Chair and its application to exact ence, p. 27 Chair and its application to exact ence, p. 27 Chair and its application to exact ence, p. 27 Chair a	que de Paris, Saddlepoint Special Session,PH	Monte Carlo and its appl WH Auditorium Track F. Technical Session	heation to exact HH Alumni Lounge Track 1. Technical Session
15:30–17:30	Track F: QMC and Applications Part II p. 57 Chair: TBD Dirk Nuyens, Approximation of multivariate periodic functions, p. 119	Track G: Analysis of Langevin and Related Sampling Algorithms, Part II p. ?? Chair: TBD Molei Tao, Langevin-Based Sampling under Nonconvex Constraints, p. 122	Track H: Recent Advances in Stochastic Gradient Descent p. 58 Chair: TBD Jose Blanchet, Inference for Stochastic Gradient Descent with Infinite Variance, p. 124	7 - Sampling Chair: TBD Kun-Lin Kuo, Revisiting the Gibbs Sampler: A Conditional Modeling Perspective, p. 149	11 - SDEs Chair: TBD Fabio Zoccolan, Dynamical Low-Rank Approximation for SDEs: an interacting particle-system ROM, p. 159
15:30–17:30	Art Owen, Randomized QMC with one categorical variable, p. 120	Yifan Chen, Convergence of Unadjusted Langevin in High Dimensions: Delocalization of Bias, p. 122	Jing Dong, Stochastic Gradient Descent with Adaptive Data, p. 125	Sascha Holl, Concatenation of Markov processes for Monte Carlo Integration, p. 149	Riccardo Saporiti, Comparing Probabilistic Load Forecasters: Stochastic Differential Equations and Deep Learning, p. 161
15:30–17:30	Zexin Pan, QMC confidence intervals using quantiles of randomized nets, p. 121	Fuzhong Zhou, Entropy methods for the delocalization of bias in Langevin Monte Carlo, p. 123		Josephine Westermann, Polynomial approximation for efficient transport-based sampling, p. 151	Leon Wilkosz, Forward Propagation of Low Discrepancy Through McKean-Vlasov Dynamics: From QMC to MLQMC, p. 162
15:30–17:30	Kosuke Suzuki, Quasi-uniform quasi-Monte Carlo lattice point sets, p. 121	Siddharth Mitra, Convergence of Φ-Divergence and Φ-Mutual Information Along Langevin Markov Chains, p. 123		Soumyadip Ghosh, Fast Approximate Matrix Inversion via MCMC for Linear System Solvers, p. 151	
18:00-20:30	Steering Committee Meeting (by invitation)	g (by invitation)			

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08:30-12:15	Registration Desk Open				
	Special Session,HH Auditorium Track A: Forward and Inverse Problems for Stochastic Reaction Networks p. 59 Chair: TBD	Special Session,HH Ballroom Track B: Hardware or Software for (Quasi-)Monte Carlo Algorithms, Part II p. 60 Chair: TBD	PH Auditorium Track C: Technical Session 3 - Simulation Chair: TBD	WH Auditorium Track D: Technical Session 9 - Sampling Chair: TBD	HH Alumni Lounge Track E: Technical Session 14 - Markov Chain Monte Carlo Chair: TBD
09:00-10:30	Zhou Fang, Fixed-budget simulation method for growing cell populations, p. 125	Niklas Baumgarten, A High-performance Multi-level Monte Carlo Software for Full Field Estimates and Applications in Optimal Control, p. ??	Yashveer Kumar, Monte Carlo simulation approach to solve distributed order fractional mathematical model, p. 137	Nicola Branchini, Revisiting self-normalized importance sampling: new methods and diagnostics, p. 155	Kevin Bitterlich, Delayed Acceptance Slice Sampling: A Two-Level method for Improved Efficiency in High-Dimensional Settings, p. 169
09:00-10:30	Sophia Münker, Dimensionality Reduction for Efficient Rare Event Estimation, p. 126	Aleksei Sorokin, Fast Gaussian Processes, p. 127	Serena Fattori, Benchmarking the Geant4-DNA 'UHDR' Example for Monte Carlo Simulation of pH Effects on Radiolytic Species Yields Using a Mesoscopic Approach, p. 137	Daniel Yukimura, Quantitative results on sampling from quasi-stationary distributions, p. 156	Reuben Cohn-Gordon, Gradient-based MCMC in high dimensions, p. 170
09:00-10:30	Maksim Chupin, Filtered Markovian Projection: Dimensionality Reduction in Filtering for Stochastic Reaction Networks, p. ??	Johannes Krotz, Hybrid Monte Carlo methods for kinetic transport, p. 128	Toon Ingelaere, Multilevel simulation of ensemble Kalman methods: interactions across levels, p. 139	Amit Subrahmanya, Serial ensemble filtering with marginal coupling, p. 157	Philip Schaer, Parallel Affine Transformation Tuning: Drastically Improving the Effectiveness of Slice Sampling, p. 171
09:00-10:30	Muruhan Rathinam, State and parameter inference in stochastic reaction networks, p. 127		Muhammad Noor ul Amin, Adaptive Max-EWMA Control Chart with SVR: Monte Carlo Simulation for Run Length Analysis, p. 139		Annabelle Carrell, Low-Rank Thinning, p. 172
	Coffee Break				
11:00–12:00	HH Auditorium Plenary Talk: Veronika	of	Chicago, AI-Powered Bayesian Inference, p. 28	ence, p. 28 Chair: Art Owen)wen
12:00-12:15	Closing Remarks by TBD, HH Auditorium	IH Auditorium			

 $\frac{06/06/2025\ 15:15}{20}$