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)

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	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)

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: Methods 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 Ballroom)
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 Ballroom)
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) ()

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 Auditorium)
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 (HH Auditorium)
12:00-12:15	Closing Remarks (HH Auditorium)

Mon, Jul 28, 2025 – Morning

08:00–17:30	Registration Desk Open				
08:45–09:00	Conference Opening by Fred Hickernell, HH Auditorium				
9:00 – 10:00	**Plenary Talk:** ***Rohan Sawhney***, p. **??** Chair:				
10:00–10:30	Coffee Break				
	Special Session, HH Auditorium Track A: Stochastic Computation and Complexity, Part I, p. 30 Chair: *TBD*	**Special Session**, HH Ballroom Track B: Domain Uncertainty Quantification, p. 31 Chair: *TBD*	**Special Session**, PH Auditorium Track C: Nested expectations: models and estimators, Part I, p. 32 Chair: *TBD*	**Special Session**, WH Auditorium Track D: Hardware or Software for (Quasi-)Monte Carlo Algorithms, Part I, p. 33 Chair: *TBD*	HH Alumni Lounge Track E: Technical Session 1 - Markov Chain Monte Carlo Chair: *TBD*
10:30–12:30	*Andreas Neuenkirch*, A strong order 1.5 boundary preserving discretization scheme for scalar SDEs defined in a domain, p. 66	*André-Alexander Zepernick*, Domain UQ for stationary and time-dependent PDEs using QMC, p. 68	*Abdul Lateef Haji Ali*, An Adaptive Sampling Algorithm for Level-set Approximation, p. 71	*Pieterjan Robbe*, Multilevel quasi-Monte Carlo without replications, p. 74	*Zhihao Wang*, Stereographic Multi-Try Metropolis Algorithms for Heavy-tailed Sampling, p. 133
10:30–12:30	*Christopher Rauhögger*, An adaptive Milstein-type method for strong approximation of systems of SDEs with a discontinuous drift coefficient, p. 66	*Carlos Jerez-Hanckes*, Domain Uncertainty Quantification for Electromagnetic Wave Scattering via First-Order Sparse Boundary Element Approximation, p. 69	*Sebastian Krumscheid*, Double-loop randomized quasi-Monte Carlo estimator for nested integration, p. 71	*Irina-Beatrice Haas*, A nested Multilevel Monte Carlo framework for efficient simulations on FPGAs, p. 74	*Ruben Seyer*, Creating rejection-free samplers by rebalancing skew-balanced jump processes, p. 134
10:30–12:30	*Verena Schwarz*, Stong order 1 adaptive approximation of jump-diffusion SDEs with discontinuous drift, p. 67	*Jürgen Dölz*, Quantifying uncertainty in spectral clusterings: expectations for perturbed and incomplete data, p. 70	*Vinh Hoang*, Posterior-Free A-Optimal Bayesian Design of Experiments via Conditional Expectation, p. 72	*Mike Giles*, CUDA implementation of MLMC on NVIDIA GPUs, p. 75	*Philippe Gagnon*, Theoretical guarantees for lifted samplers, p. 135
10:30–12:30		*Harri Hakula*, Model Problems for PDEs on Uncertain Domains, p. 70	*Vesa Kaarnioja*, QMC for Bayesian optimal experimental design with application to inverse problems governed by PDEs, p. 73	*Chung Ming Loi*, Scalable and User-friendly QMC Sampling with UMBridge, p. 76	

Mon, Jul 28, 2025 – Afternoon

12:30–14:00	Lunch Break				
14:00–15:00	HH Auditorium **Plenary Talk:** ***Christiane Lemieux, U of Waterloo, Golden ratio nets and sequences***, p. 22 Chair: *Nathan Kirk*				
15:00–15:30	Coffee Break				
	Special Session, HH Auditorium Track F: Stochastic Computation and Complexity, Part II, p. 35 Chair: *TBD*	**Special Session**, HH Ballroom Track G: Recent advances in optimization under uncertainty p. 36 Chair: *TBD*	**Special Session**, PH Auditorium Track H: Computational Methods for Low-discrepancy Sampling and Applications, p. 37 Chair: *TBD*	WH Auditorium Track I: Technical Session 4 - Quasi-Monte Carlo, Part 1 Chair: *TBD*	HH Alumni Lounge Track J: Technical Session 12 - PDEs Chair: *TBD*
15:30–17:30	*Michael Gnewuch*, Optimality of deterministic and randomized QMC-cubatures on several scales of function spaces, p. 76	*Tapio Helin*, Stability of Expected Utility in Bayesian Optimal Experimental Design, p. 79	*François Clément*, Searching Permutations for Constructing Low-Discrepancy Point Sets and Inverstigating the Kritzinger Sequence, p. 82	*Christian Weiss*, Halton Sequences, Scrambling and the Inverse Star-Discrepancy, p. 143	*Adrien Richou*, A probabilistic Numerical method for semi-linear elliptic Partial Differential Equations, p. 166
15:30–17:30	*Kateryna Pozharska*, Optimal designs for function discretization and construction of tight frames, p. 78	*Karina Koval*, Subspace accelerated measure transport methods for fast and scalable sequential experimental design, p. 80	*Nathan Kirk*, Minimizing the Stein Discrepancy, p. 83	*Xiaoda Xu*, Star discrepancy and uniform approximation under weighted simple and stratified random sampling , p. 144	*Abdujabar Rasulov*, Monte Carlo method for the Spatially Homogenous Boltzmann equation, p. 166
15:30–17:30	*Leszek Plaskota*, Complexity of approximating piecewise smooth functions in the presence of deterministic or random noise, p. 79	*Johannes Milz*, Randomized quasi-Monte Carlo methods for risk-averse stochastic optimization, p. 81	*Makram Chahine*, Improving Efficiency of Sampling-based Motion Planning via Message-Passing Monte Carlo, p. 83	*Sifan Liu*, Transport Quasi-Monte Carlo, p. 145	*Miguel Alvarez*, A New Approach for Unbiased Estimation of Parameters of Partially Observed Diffusions, p. 167
15:30–17:30		*Arved Bartuska*, Efficient expected information gain estimators based on the randomized quasi-Monte Carlo method, p. 81	*Gregory Seljak*, An Empirical Evaluation of Robust Estimators for RQMC, p. 84	*Ambrose Emmett-Iwaniw*, Using Normalizing Flows for Efficient Quasi-Random Sampling for Copulas, p. 146	*Håkon Hoel*, High-order adaptive methods for exit times of diffusion processes and reflected diffusions, p. 168
17:30–19:30	Welcome Reception				

Tue, Jul 29, 2025 – Morning

08:30–17:30	Registration Desk Open				
09:00–10:00	HH Auditorium **Plenary Talk:** ***Peter Glynn, Stanford U, Combining Simulation and Linear Algebra: COSIMLA***, p. 23 Chair: *Chang-Han Rhee*				
10:00–10:30	Coffee Break				
	Special Session, HH Auditorium Track A: Stochastic Computation and Complexity, Part III p. 39 Chair: *TBD*	**Special Session**, HH Ballroom Track B: Next-generation optimal experimental design: theory, scalability, and real world impact: Part I p. 40 Chair: *TBD*	**Special Session**, PH Auditorium Track C: Heavy-tailed Sampling p. 42 Chair: *TBD*	**Special Session**, WH Auditorium Track D: Frontiers in (Quasi-)Monte Carlo and Markov Chain Monte Carlo Methods, Part I p. 44 Chair: *TBD*	HH Alumni Lounge Track E: Technical Session 2 - Bayesian Methods Chair: *TBD*
10:30–12:30	*Jean-François Chassagneux*, Computing the stationary measure of McKean-Vlasov SDEs, p. 85	*Xun Huan*, Optimal Pilot Sampling for Multi-fidelity Monte Carlo Methods, p. 87	*Sebastiano Grazzi*, Parallel computations for Metropolis Markov chains Based on Picard maps, p. 89	*Hwanwoo Kim*, Enhancing Gaussian Process Surrogates for Optimization and Posterior Approximation via Random Exploration, p. 92	*Lorenzo Nagar*, Optimizing Generalized Hamiltonian Monte Carlo for Bayesian Inference applications, p. 136
10:30–12:30	*Noufel Frikha*, On the convergence of the Euler-Maruyama scheme for McKean-Vlasov SDEs, p. 85	*Adrien Corenflos*, A recursive Monte Carlo approach to optimal Bayesian experimental design, p. 88	*Federica Milinanni*, A large deviation principle for Metropolis-Hastings sampling, p. 90		*Hamza Ruzayqat*, Bayesian Anomaly Detection in Variable-Order and Variable-Diffusivity Fractional Mediums, p. 137
10:30–12:30	*Sotirios Sabanis*, Wasserstein Convergence of Score-based Generative Models under Semiconvexity and Discontinuous Gradients, p. 86	*Ayoub Belhadji*, Weighted quantization using MMD: From mean field to mean shift via gradient flows, p. 88	*Xingyu Wang*, Sharp Characterization and Control of Global Dynamics of SGDs with Heavy Tails, p. 91		*Arghya Datta*, Theoretical Guarantees of Mean Field Variational Inference for Bayesian Principal Component Analysis, p. 138
10:30–12:30					*Jimmy Lederman*, Bayesian Analysis of Latent Underdispersion Using Discrete Order Statistics, p. 138

Tue, Jul 29, 2025 – Afternoon

12:30–14:00	Lunch Break				
14:00–15:00	**Plenary Talk:** ***Roshan Joseph, Georgia Institute of Technology, Sensitivity and Screening: From Monte Carlo to Experimental Design***, p. 24 Chair: *Simon Mak*				
15:00–15:30	Coffee Break				
	Special Session, HH Auditorium Track F: Stochastic Computation and Complexity, Part IV, p. 45 Chair: *TBD*	**Special Session**, HH Ballroom Track G: Next-generation optimal experimental design: theory, scalability, and real world impact: Part II, p. 46 Chair: *TBD*	**Special Session**, PH Auditorium Track H: Advances in Rare Events Simulation, p. 48 Chair: *TBD*	**Special Session**, WH Auditorium Track I: Frontiers in (Quasi-)Monte Carlo and Markov Chain Monte Carlo Methods, Part II, p. 49 Chair: *TBD*	HH Alumni Lounge Track J: Technical Session 5 - Quasi-Monte Carlo, Part 2 Chair: *TBD*
15:30–17:30	*Larisa Yaroslavtseva*, Optimal strong approximation of SDEs with Hölder continuous drift coefficient, p. 92	*Alen Alexanderian*, Goal Oriented Sensor Placement for Infinite-Dimensional Bayesian Inverse Problems , p. 94	*Victor Elvira*, Multiple Importance Sampling for Rare Event Simulation in Communication Systems, p. 97	*Takashi Goda*, Quasi-uniform quasi-Monte Carlo digital nets, p. 99	*Peter Kritzer*, Approximation using median lattice algorithms, p. 147
15:30–17:30	*Gunther Leobacher*, Tractability of L_2-approximation and integration in weighted Hermite spaces of finite smoothness, p. 93	*jacopo iollo*, Diffusion-Based Bayesian Experimental Design: Advancing BED for Practical Applications, p. 95	*Bruno Tuffin*, Asymptotic robustness of smooth functions of rare-event estimators, p. 97	*Ziang Niu*, Boosting the inference for generative models by (Quasi-)Monte Carlo resampling, p. 100	*Yang Liu*, Convergence Rates of Randomized Quasi-Monte Carlo Methods under Various Regularity Conditions, p. 147
15:30–17:30	*Alexander Steinicke*, Malliavin differentiation of Lipschitz SDEs and BSDEs and an Application to Quadratic Forward-Backward SDEs, p. 94	*Tommie Catanach*, Robust Bayesian Optimal Experimental Design under Model Misspecification, p. 96	*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. 98	*Chenyang Zhong*, A hit and run approach for sampling and analyzing ranking models, p. 101	*Jakob Dilen*, Use of rank-1 lattices in the Fourier neural operator, p. 148
15:30–17:30			*Shyam Mohan Subbiah Pillai*, Estimating rare event probabilities associated with McKean–Vlasov SDEs, p. 98		*Aadit Jain*, Investigating the Optimum RQMC Batch Size for Betting and Empirical Bernstein Confidence Intervals, p. 148

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***, p. 25 Chair: *Gunther Leobacher*				
10:00–10:30	Coffee Break				
	Special Session, HH Auditorium Track A: Stochastic Computation and Complexity, Part V, p. 50 Chair: *TBD*	**Special Session**, HH Ballroom Track B: Statistical Design of Experiments, p. 51 Chair: *TBD*	**Special Session**, PH Auditorium Track C: Advances in Adaptive Hamiltonian Monte Carlo, p. **??** Chair: *TBD*	WH Auditorium Track D: Technical Session 15 - Simulation Chair: *TBD*	HH Alumni Lounge Track E: Technical Session 6 - Sampling Chair: *TBD*
10:30–12:30	*Stefan Heinrich*, On the quantum complexity of parametric integration in Sobolev spaces, p. 102	*Simon Mak*, Respecting the boundaries: Space-filling designs for surrogate modeling with boundary information, p. 104	*Bob Carpenter*, GIST: Gibbs self-tuning for locally adapting Hamiltonian Monte Carlo, p. 107	*Philippe Blondeel*, Combining quasi-Monte Carlo with Stochastic Optimal Control for Trajectory Optimization of Autonomous Vehicles in Mine Counter Measure Simulations, p. 175	*Akash Sharma*, Sampling with constraints, p. 149
10:30–12:30	*Bernd Käßemodel*, Quantum Integration in Tensor Product Besov Spaces, p. 102	*Chih-Li Sung*, Stacking designs: designing multi-fidelity computer experiments with target predictive accuracy, p. 105	*Nawaf Bou-Rabee*, Acceleration of the No-U-Turn Sampler, p. 107	*Rino Persiani*, A Monte Carlo Approach to Designing a Novel Sample Holder for Enhanced UV-Vis Spectroscopy, p. 176	*Joonha Park*, Sampling from high-dimensional, multimodal distributions using automatically tuned, tempered Hamiltonian Monte Carlo, p. 150
10:30–12:30	*Nikolaos Makras*, Taming the Interacting Particle Langevin Algorithm — The Superlinear Case, p. 103	*Qian Xiao*, Optimal design of experiments with quantitative-sequence factors, p. 106	*Chirag Modi*, ATLAS: Adapting Trajectory Lengths and Step-Size for Hamiltonian Monte Carlo, p. 108	*Prasanth Shyamsundar*, ARCANE Reweighting: A technique to tackle the sign problem in the simulation of collider events in high energy physics, p. 177	*Arne Bouillon*, Localized consensus-based sampling for non-Gaussian distributions, p. 151
10:30–12:30	*Iosif Lytras*, Sampling with Langevin Dynamics from non-smooth and non-logconcave potentials., p. 103	*Chaofan Huang*, Factor Importance Ranking and Selection using Total Indices, p. 106	*Trevor Campbell*, AutoStep: Locally adaptive involutive MCMC, p. 109	*Nicole Aretz*, Multifidelity and Surrogate Modeling Approaches for Uncertainty Quantification in Ice Sheet Simulations, p. 178	*Alex Shkolnik*, Importance Sampling for Hawkes Processes, p. 151

Wed, Jul 30, 2025 – Afternoon

12:30–14:00	Lunch Break				
	Special Session, HH Auditorium Track F: Stochastic Optimization, p. 52 Chair: *TBD*	**Special Session**, HH Ballroom Track G: Recent Progress on Algorithmic Discrepancy Theory and Applications, p. 53 Chair: *TBD*	**Special Session**, PH Auditorium Track H: Monte Carlo Applications in High-performance Computing, Computer Graphics, and Computational Science, p. 54 Chair: *TBD*	WH Auditorium Track I: Technical Session 16 - Statistics Chair: *TBD*	HH Alumni Lounge Track J: Technical Session 10 - Langevin Chair: *TBD*
14:00–16:00	*Raghu Bollapragada*, Monte Carlo Based Adaptive Sampling Approaches for Stochastic Optimization, p. 109	*Haotian Jiang*, Algorithmic Discrepancy Theory: An Overview, p. 111	*Arash Fahim*, Gaining efficiency in Monte Carlo policy gradient methods for stochastic optimal control, p. 112	*Kazeem Adeleke*, Empirical Statistical Comparative Analysis of SNP Heritability Estimators and Gradient Boosting Machines (GBM) Using Genetic Data from the UK Biobank, p. 178	*Attila Lovas*, Stochastic gradient Langevin dynamics with non-stationary data, p. 160
14:00–16:00	*Shane Henderson*, A New Convergence Analysis of Two Stochastic Frank-Wolfe Algorithms, p. 110	*Peng Zhang*, Improving the Design of Randomized Experiments via Discrepancy Theory, p. 111	*Silei Song*, WoS-NN: Collaborating Walk-on-Spheres with Machine Learning to Solve Ellip- tic PDEs, p. 113	*Carles Domingo-Enrich*, Cheap permutation testing , p. 179	*Sara Pérez-Vieites*, Langevin-based strategies for nested particle filters, p. 161
14:00–16:00		*Aleksandar Nikolov*, Online Factorization for Online Discrepancy Minimization, p. 112		*Christopher Draper*, Moving PCG beyond LCGs, p. 180	
14:00–16:00				*Yiming Xu*, Hybrid least squares for learning functions from highly noisy data, p. 180	
16:00–16:30 18:00–20:30	Coffee Break Conference Dinner				

Thu, Jul 31, 2025 – Morning

08:30–17:30	Registration Desk Open				
09:00–10:00	HH Auditorium **Plenary Talk:** ***Uros Seljak, UC Berkeley, Gradient-Based MCMC Sampling: Methods and Optimization Strategies***, p. 26 Chair: *Tim Hobbs*				
10:00–10:30	Coffee Break				
	Special Session, HH Auditorium Track A: QMC and Applications Part I, p. 55 Chair: *TBD*	**Special Session**, HH Ballroom Track B: Analysis of Langevin and Related Sampling Algorithms, Part I, p. 56 Chair: *TBD*	**Special Session**, PH Auditorium Track C: Nested expectations: models and estimators, Part II, p. 57 Chair: *TBD*	WH Auditorium Track D: Technical Session 8 - Finance Chair: *TBD*	HH Alumni Lounge Track E: Technical Session 13 - ML & Optimization Chair: *TBD*
10:30–12:30	*Felix Bartel*, Exact discretization, tight frames and recovery via D-optimal designs, p. 114	*Krishnakumar Balasubramanian*, Finite-Particle Convergence Rates for Stein Variational Gradient Descent, p. 116	*RAUL TEMPONE*, Multilevel randomized quasi-Monte Carlo estimator for nested expectations, p. 119	*Matyokub Bakoev*, The Stochastic Differential Equations of the Heston Model for Option Pricing, p. 155	*Frédéric Blondeel*, Learning cooling strategies in simulated annealing through binary interactions, p. 169
10:30–12:30	*Mou Cai*, L2-approximation: using randomized lattice algorithms and QMC hyperinterpolation, p. 115	*Lihan Wang*, Convergence rates of kinetic Langevin dynamics with weakly confining potentials, p. 117	*Matteo Raviola*, Stochastic gradient with least-squares control variates, p. 120	*Vincent Zhang*, Characterizing Efficacy of Geometric Brownian Motion Expectation-based Simulations on Low-Volatility American Common Stocks, p. 156	*Du Ouyang*, Accuracy of Discretely Sampled Stochastic Policies in Continuous-Time Reinforcement Learning, p. 170
10:30–12:30	*Zhijian He*, High-dimensional density estimation on unbounded domain, p. 115	*Peter Whalley*, Randomized Splitting Methods and Stochastic Gradient Algorithms, p. 118	*Philipp Guth*, A one-shot method for Bayesian optimal experimental design, p. 121	*Hao Quan*, Efficient Pricing for Variable Annuity via Simulation, p. 158	*Wei Cai*, Martingale deep neural networks for quasi-linear PDEs and stochastic optimal controls in 10,000 dimensions, p. 171
10:30–12:30	*Frances Y. Kuo*, Application of QMC to Oncology, p. 116	*Xiaoou Cheng*, Delocalization of Bias in Unadjusted Hamiltonian Monte Carlo, p. 119			*Yiqing Zhou*, Minimizing Functions with Sparse Samples: A Fast Interpolation Approach, p. 171

Thu, Jul 31, 2025 – Afternoon

12:30–14:00	Lunch Break				
14:00–15:00	HH Auditorium **Plenary Talk:** ***Nicolas Chopin, Institut Polytechnique de Paris, Saddlepoint Monte Carlo and its application to exact ecological inference***, p. 27 Chair: *Bruno Tuffin*				
15:00–15:30	Coffee Break				
	Special Session, HH Auditorium Track F: QMC and Applications Part II, p. 58 Chair: *TBD*	**Special Session**, HH Ballroom Track G: Analysis of Langevin and Related Sampling Algorithms, Part II, p. 59 Chair: *TBD*	**Special Session**, PH Auditorium Track H: Recent Advances in Stochastic Gradient Descent, p. 60 Chair: *TBD*	WH Auditorium Track I: Technical Session 7 - Sampling Chair: *TBD*	HH Alumni Lounge Track J: Technical Session 11 - SDEs Chair: *TBD*
15:30–17:30	*Dirk Nuyens*, Approximation of multivariate periodic functions, p. 121	*Molei Tao*, Langevin-Based Sampling under Nonconvex Constraints, p. 124	*Jose Blanchet*, Inference for Stochastic Gradient Descent with Infinite Variance, p. 126	*Kun-Lin Kuo*, Revisiting the Gibbs Sampler: A Conditional Modeling Perspective, p. 152	*Fabio Zoccolan*, Dynamical Low-Rank Approximation for SDEs: an interacting particle-system ROM, p. 162
15:30–17:30	*Art Owen*, Randomized QMC with one categorical variable, p. 122	*Yifan Chen*, Convergence of Unadjusted Langevin in High Dimensions: Delocalization of Bias, p. 124	*Jing Dong*, Stochastic Gradient Descent with Adaptive Data, p. 127	*Sascha Holl*, Concatenation of Markov processes for Monte Carlo Integration, p. 152	*Riccardo Saporiti*, Comparing Probabilistic Load Forecasters: Stochastic Differential Equations and Deep Learning, p. 164
15:30–17:30	*Zexin Pan*, QMC confidence intervals using quantiles of randomized nets, p. 123	*Fuzhong Zhou*, Entropy methods for the delocalization of bias in Langevin Monte Carlo, p. 125		*Josephine Westermann*, Polynomial approximation for efficient transport-based sampling, p. 154	*Leon Wilkosz*, Forward Propagation of Low Discrepancy Through McKean–Vlasov Dynamics: From QMC to MLQMC, p. 165
15:30–17:30	*Kosuke Suzuki*, Quasi-uniform quasi-Monte Carlo lattice point sets, p. 123	*Siddharth Mitra*, Convergence of Φ-Divergence and Φ-Mutual Information Along Langevin Markov Chains, p. 125		*Soumyadip Ghosh*, Fast Approximate Matrix Inversion via MCMC for Linear System Solvers, p. 154	
18:00–20:30	Steering Committee Meeting (by invitation)				

Fri, Aug 1, 2025

08:30–12:15	Registration Desk Open				
	Special Session, HH Auditorium Track A: Forward and Inverse Problems for Stochastic Reaction Networks, p. 61 Chair: *TBD*	**Special Session**, HH Ballroom Track B: Hardware or Software for (Quasi-)Monte Carlo Algorithms, Part II, p. 62 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. 127	*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. 140	*Nicola Branchini*, Revisiting self-normalized importance sampling: new methods and diagnostics, p. 158	*Kevin Bitterlich*, Delayed Acceptance Slice Sampling: A Two-Level method for Improved Efficiency in High-Dimensional Settings , p. 172
09:00–10:30	*Sophia Münker*, Dimensionality Reduction for Efficient Rare Event Estimation, p. 128	*Aleksei Sorokin*, Fast Gaussian Processes, p. 130	*Serena Fattori*, Benchmarking the Geant4-DNA 'UHDR' Example for Monte Carlo Simulation of pH Effects on Radiolytic Species Yields Using a Mesoscopic Approach, p. 140	*Daniel Yukimura*, Quantitative results on sampling from quasi-stationary distributions, p. 159	*Reuben Cohn-Gordon*, Gradient-based MCMC in high dimensions, p. 173
09:00–10:30	*Maksim Chupin*, Filtered Markovian Projection: Dimensionality Reduction in Filtering for Stochastic Reaction Networks, p. 129	*Johannes Krotz*, Hybrid Monte Carlo methods for kinetic transport, p. 131	*Toon Ingelaere*, Multilevel simulation of ensemble Kalman methods: interactions across levels, p. 142	*Amit Subrahmanya*, Serial ensemble filtering with marginal coupling, p. 160	*Philip Schaer*, Parallel Affine Transformation Tuning: Drastically Improving the Effectiveness of Slice Sampling, p. 174
09:00–10:30	*Muruhan Rathinam*, State and parameter inference in stochastic reaction networks, p. 130		*Muhammad Noor ul Amin*, Adaptive Max-EWMA Control Chart with SVR: Monte Carlo Simulation for Run Length Analysis, p. 142		*Annabelle Carrell*, Low-Rank Thinning, p. 175
	Coffee Break				
11:00–12:00	HH Auditorium **Plenary Talk:** ***Veronika Ročková, U of Chicago, AI-Powered Bayesian Inference***, p. 28 Chair: *Art Owen*				
12:00–12:15	Closing Remarks by TBD, HH Auditorium				