

## Publication list: Gareth Roberts

- [1] Hongsheng Dai, Murray Pollock, and Gareth Roberts. Bayesian fusion: Scalable unification of distributed statistical analyses. *arXiv preprint arXiv:2102.02123*, 2021.
- [2] Christian P Robert and Gareth O Roberts. Rao-blackwellization in the mcmc era. *arXiv preprint arXiv:2101.01011*, 2021.
- [3] Dootika Vats, Flávio Gonçalves, Krzysztof Łatuszyński, and Gareth O Roberts. Efficient Bernoulli factory MCMC for intractable likelihoods. *arXiv preprint arXiv:2004.07471*, 2020.
- [4] Marcin Mider, Paul A Jenkins, Murray Pollock, Gareth O Roberts, and Michael Sørensen. Simulating bridges using confluent diffusions. *arXiv preprint arXiv:1903.10184*, 2019.
- [5] Nicholas G Tawn and Gareth O Roberts. Optimal temperature spacing for regionally weight-preserving tempering. *arXiv preprint arXiv:1810.05845*, 2018.
- [6] Joris Bierkens, Kengo Kamatani, and Gareth O Roberts. High-dimensional scaling limits of piecewise deterministic sampling algorithms. *arXiv preprint arXiv:1807.11358*, 2018.
- [7] Cyril Chimisov, Krzysztof Łatuszynski, and Gareth Roberts. Adapting the Gibbs sampler. *arXiv preprint arXiv:1801.09299*, 2018.
- [8] Cyril Chimisov, Krzysztof Łatuszynski, and Gareth Roberts. Air Markov chain Monte Carlo. *arXiv preprint arXiv:1801.09309*, 2018.
- [9] Paul Fearnhead, Krzysztof Łatuszynski, Gareth O Roberts, and Giorgos Sermaidis. Continuous-time importance sampling: Monte Carlo methods which avoid time-discretisation error. *arXiv preprint arXiv:1712.06201*, 2017.
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- [11] Andi Q Wang, Murray Pollock, Gareth O Roberts, and David Steinsaltz. Regeneration-enriched Markov processes with application to Monte Carlo. *to appear in Annals of Applied Probability*, 2020. arXiv preprint arXiv:1910.05037.
- [12] Giacomo Zanella and Gareth Roberts. Analysis of the Gibbs sampler for Gaussian hierarchical models via multigrid decomposition (with discussion). *to appear in Bayesian Analysis*, 2020. arXiv preprint arXiv:1703.06098.

- [13] Adam Griffin, Gareth O Roberts, and Simon EF Spencer. An epidemic model for an evolving pathogen with strain-dependent immunity. *Mathematical Biosciences*, 2020.
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- [16] Jun Yang, Gareth O Roberts, and Jeffrey S Rosenthal. Optimal scaling of metropolis algorithms on general target distributions. *to appear in Stochastic Processes and their Applications*, (10):6094–6132, 2020. arXiv preprint arXiv:1904.12157.
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- [18] Paul J Birrell, Lorenz Wernisch, Brian D M Tom, Gareth O Roberts, Richard G Pebody, and Daniella De Angelis. Efficient real-time monitoring of an emerging influenza epidemic: how feasible? *Annals of Applied Statistics*, 14(1):74–93, 2020. arXiv preprint arXiv:1608.05292.
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