

Christopher V. Aicher

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Education	PhD in Statistics, University of Washington. M.S. in Applied Mathematics, University of Colorado at Boulder. B.S. in Applied Mathematics, University of Colorado at Boulder. Minor in Computer Science GPA: 3.99/4.00	Current May 2014 May 2014
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Selected Publications	C. Aicher , N.J. Foti and E.B. Fox, “Adaptively Truncating Backpropagation Through Time to Control Gradient Bias”. <i>Uncertainty in Artificial Intelligence</i> (2019). (arxiv:1905.07473) C. Aicher , S. Putcha, C. Nemeth, P. Fearnhead and E.B. Fox, “Stochastic Gradient MCMC for State Space Models”. <i>Preprint</i> (2019). (arxiv:1901.10568) C. Aicher , Y.A. Ma, N.J. Foti and E.B. Fox, “Stochastic Gradient MCMC for State Space Models”. <i>SIAM Journal on Mathematics of Data Science, Under Review</i> . (arxiv:1810.09098) C. Aicher and E.B. Fox, “Approximate Collapsed Gibbs Clustering with Expectation Propagation.” <i>KDD Workshop: Mining and Learning from Time Series</i> (2016). (arxiv:1807.07621) C. Aicher , A.Z. Jacobs and A. Clauset, “Learning Latent Block Structure in Weighted Networks.” <i>Journal of Complex Networks</i> , 3(2) 221-248 (2015). (arxiv:1404.0431) Full publication list and code available at https://aicherc.github.io .
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Experience	Graduate Research Assistant , University of Washington, Jan 2015 - Current <ul style="list-style-type: none">Working with Professor Emily Fox to develop scalable approximate inference procedures (e.g. stochastic gradient methods) for sequential data models, such as state space models and recurrent neural networks. Research Intern , MSR, Jun 2017 - Sept 2017 <ul style="list-style-type: none">Worked with Consumer Data & Analytics team on short-form text clustering.Developed an on-line feature extractor using RNNs and non-parametric clustering.Presented work at internal “Machine Learning, AI, Data Science 2017” conference. Research Scientist Intern , Amazon, Jun 2016 - Sept 2016 <ul style="list-style-type: none">Worked with the Kindle devices demand planning team on forecasting sales.Developed a custom R package for prototyping new models.Tested and integrated quantile random forests to improve short-term forecasting Machine Learning Intern , Dato (now Turi), Jun 2015 - Sept 2015 <ul style="list-style-type: none">Researched, developed, and shipped a new itemset mining toolkit as part of GraphLab Create’s machine learning applications library. Undergraduate Research Assistant , University of Colorado, Jan 2012 - May 2014 <ul style="list-style-type: none">Collaborated with Professor Aaron Clauset on statistical learning in networks.Developed a novel weighted version of the stochastic block model and variational inference algorithm for unsupervised community detection.
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Skills & Coursework	Programming Languages: <ul style="list-style-type: none">Python, R, MATLAB, C++, SQL Statistics Related Coursework: <ul style="list-style-type: none">Stochastic Processes, Probability Theory, Mathematical Statistics, Optimization Computer Science Related Coursework: <ul style="list-style-type: none">Machine Learning, Algorithms, Data Structures, Database Systems
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