Curriculum Vitae: Samuel Wiqvist

Personal Information

Born: July 31, 1991 Gender: Male

Nationality: Swedish

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Current Position

Ph.D. student at the Div. of Mathematical Statistics, Centre for Mathematical Sciences, Lund University. I started the Ph.D. program on September 1st, 2016, and expected to graduate in June 2021. My main advisor is Umberto Picchini.

Umberto Picchini's adress: mailing address:

Mathematical Sciences - Chalmers University of Technology and University of Gothenburg

SE-412 96 Gothenburg, Sweden

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Research Interests

Bayesian inference, intractable likelihood problems, and Monte Carlo methods.

Appointments Held

Intern, Ellevio AB.

2010

Education

MSc in Engineering Mathematics, Faculty of Engineering, Lund University.

Master's thesis: *An Adaptive Iterated Filtering Algorithm*, defended on the 10th of June 2016. The thesis treated maximum likelihood-based parameter estimations of partially observed Markov process models, and a new version of the Iterated Filtering Algorithm was introduced.

Upper-secondary school, Natural Science Program, Katedralskolan, Lund, (Sv. gymnasieexamen).

Publications

Conference papers

[1] **Samuel Wiqvist**, Pierre-Alexandre Mattei, Umberto Picchini, and Jes Frellsen. Partially Ex-changeable Networks and Architectures for Learning Summary Statistics in Approximate Bayesian Computation. In ICML, pages 6798–6807, 2019

PRE-PRINTS

- [1] **Samuel Wiqvist**, Andrew Golightly, Ashleigh T Mclean, and Umberto Picchini. Efficient inference for stochastic differential mixed-effects models using correlated particle pseudo-marginal algorithms. *arXiv preprint arXiv:1907.09851*, 2019
- [2] **Samuel Wiqvist**, Umberto Picchini, Julie Lyng Forman, Kresten Lindorff-Larsen, and Wouter Boomsma. Accelerating delayed-acceptance markov chain monte carlo algorithms. *arXiv* preprint *arXiv*:1806.05982, 2018.

Talks

- MC 20: Workshop on Numerical Methods for Stochastic Differential Equations Efficient inference for stochastic differential equation mixed-effects models using correlated particle pseudo-marginal algorithms
- Pioneers of Probabilistic Programming (Meet-up group, Copenhagen) An Introduction to Bayesian Statistics and Approximate Bayesian Computing
- Bayes@Lund. Automatic learning of summary statistics for Approximate Bayesian Computation using Partially Exchangeable Networks.
- Statistics and Biomathematics Seminar, Dept. Mathematical Sciences, Chalmers University of Technology and University of Gothenburg. Automatic Learning of Summary Statistics for Approximate Bayesian Computation Using Deep Learning.

Teaching

- $Spring \ {\it 2020} \\ Computer \ laboratory \ assistant, \ MASM11/FMSN50 \ Monte \ Carlo \ and \ Empirical \ Methods \ for \ Stochastic \ Inference, \ Lund \ University.$
- Fall 2019 Computer laboratory assistant, FMSN60/MASM18 Financial Statistics, Lund University.
- Fall 2019 Teaching assistant and computer laboratory assistant, FMSF15/MASC03 Markov processes, Lund University.
- $Spring \ 2019 \qquad Computer \ laboratory \ assistant, \ MASM11/FMSN50 \ Monte \ Carlo \ and \ Empirical \ Methods \ for \ Stochastic \ Inference, \ Lund \ University.$
- Fall 2018 Computer laboratory assistant, FMSN60/MASM18 Financial Statistics, Lund University.

Fall 2018	Teaching assistant and computer laboratory assistant, FMSF15/MASC03 Markov processes, Lund University.
Spring 2018	$Computer\ laboratory\ assistant,\ MASM11/FMSN50\ Monte\ Carlo\ and\ Empirical\ Methods\ for\ Stochastic\ Inference,\ Lund\ University.$
Fall 2017	Computer laboratory assistant, FMSN6o/MASM18 Financial Statistics, Lund University.
Fall 2017	Teaching assistant and computer laboratory assistant, FMSF15/MASC03 Markov processes, Lund University.
Spring 2017	$\label{thm:computer_laboratory} Teaching assistant and computer laboratory assistant, \textit{FMSo35 Mathematical Statistics, Basic Course,} \\ Faculty of Engineering, Lund University.$
Fall 2016	$\label{thm:computer_laboratory} Teaching assistant and computer laboratory assistant, \textit{FMSo32 Mathematical Statistics, Basic Courses,} \\ Faculty of Engineering, Lund University.$
Spring 2016	Computer laboratory assistant, FMS035 Mathematical Statistics, Basic Course, Lund University.
Fall 2015	Teaching assistant and computer laboratory assistant, FMSo86 Mathematical Statistics, Faculty of Engineering, Lund University.
	Positions of Trust
2013-2014	Head of Student Council of the Engineering Mathematics program.
2013-2014	Student representative in the the Program Management Group of the Engineering Mathematics program.
2012-2013	Head of fair and logistics FARAD 2013, (FARAD is a career fair organized by students).