

Patrick Aschermayr

Seeking a challenging and research-driven environment where I can develop and make a meaningful contribution.



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WORK EXPERIENCE

Brevan Howard (FT) 2023 –
Geneva, CH
Quantitative Researcher
• Quantitative Researcher for Global Macro Strategies

University of Zurich & ZZ (Schweiz) AG (PT) 2016 – 2018
Zurich, CH
PMP - Portfolio Manager & Analyst
• Global Macro strategy with focus on Carry and Value

Deutsche Bank (INTERN) 04/2016 – 07/2016
Frankfurt, GER
Research - Strategic Beta Intern
• Supported launch of Deutsche Asset model & strategy portfolios

Deutsche Asset Management (INTERN) 10/2015 – 03/2016
Frankfurt, GER
Portfolio Management - Multi Asset Intern
• Assisted PMs in making presentations for roadshows and reports

EDUCATION

2018 – 2023 **Doctor of Philosophy**
LONDON, UK Statistics
London School of Economics and Political Science
THESIS: **Sequential Bayesian Learning for State Space Models**

2016 – 2018 **Master of Science**
ZURICH, CH Quantitative Finance
ETH Zurich, University of Zurich
GPA: **5.4 (Best: 6.0)**

2012 – 2015 **Bachelor of Science**
VIENNA, AUT Economics, Business and Social Sciences
Vienna University of Economics and Business
GPA: **1.3 (Best: 1.0)**

SOFTWARE DEVELOPMENT

(03/2022 –) ONGOING

Baytes.jl - Author
• Framework for Batch and Sequential Bayesian Inference
• Combines Markov Chain and Sequential Monte Carlo methods
• See [BaytesMCMC.jl](#), [BaytesFilters.jl](#), [BaytesPMCMC.jl](#) or [BaytesSMC.jl](#)

(01/2022 –) ONGOING

ModelWrappers.jl - Author
• Framework to represent parameters as (nested) tuples or vectors
• Parameters can be shown in constrained or unconstrained domain
• Compatible with multiple Automatic Differentiation frameworks

RESEARCH EXPERTISE

- Model estimation and inference in a batch and times series setting
- High performance computing and unit testing, see [GitHub](#) profile
- Multiple collaborations and research presentations, see [Publications](#)

CORE SKILLS

Statistical	Bayesian Statistics
Machine Learning	Probabilistic Models Estimation, Prediction Model selection and validation
Algorithms	Markov Chain Monte Carlo Sequential Monte Carlo Variational Inference/Optimization
Computing	Julia, R, Python
Deployment	Linux Distributed Computing (JuliaHub) Version Control (Git)
Soft Skills	Critical Thinking Adaptability Problem Solving
Communication	Oral (Teaching, Seminars, Conferences) Written (Papers, Editing, Blogging) Project Management (PhD Thesis) Teamwork (Collaborations)

MISCELLANEOUS

Languages	German (Native), English (Fluent)
Involvement	LSE PhD student representative Zurich QFin Alumni Club Local tennis and table football club
Interests	Books (fantasy, manga) Sports (football, fitness) Cooking (Austrian, Asian) Gaming (Pokemon, Fire Emblem)

PUBLICATIONS

Working Papers

Aschermayr, P., Kalogeropoulos, K., (2023). *Sequential Bayesian Learning for Hidden Semi-Markov Models*

Aschermayr, P., Demiris, N., Kalogeropoulos, K. (2023). *SIR-type State Space Models with Piecewise Constant Transmission Rates*

Aschermayr, P., Beskos, A., Kalogeropoulos, K., Nikolopoulos, A. (2023). *A Class of Stochastic Volatility Models with Copula Dependencies*

PhD Thesis

Aschermayr, P. (2023). *Sequential Bayesian Learning for State Space Models*

Conferences and Presentations

06/2022 I presented my working paper *Sequential Bayesian Learning for Hidden Semi-Markov Models* at the [IMS 2022](#) in London, UK.

05/2019 I presented my [Particle MCMC](#) poster at the [Social and Economic Data Science Summit](#) in London, UK.

GRANTS AND FELLOWSHIPS

2018 – 2022 [Economic and Social Research Council \(ESRC\)](#) studentship

TEACHING EXPERIENCE

London School of Economics

2022 [Bayesian Inference](#) - Teaching assistant, third year Bachelor level

2021 [Bayesian Inference](#) - Teaching assistant, third year Bachelor level

2020 [Bayesian Inference](#) - Teaching assistant, third year Bachelor level

2019 [Quantitative Methods](#) - Teaching assistant, first year Bachelor level

SERVICE

Journal Peer Review

2020 [Journal of the Royal Statistical Society: Series C \(Applied Statistics\)](#) - Referee