

CONTACT INFORMATION	University of Glasgow School of Mathematics and Statistics University Place Glasgow G12 8QQ	E-mail: <a href="mailto:Agnieszka.Borowska@glasgow.ac.uk">Agnieszka.Borowska@glasgow.ac.uk</a> Website: <a href="https://aborowska.github.io">aborowska.github.io</a> Mobile: +31 6 16 028 686
RESEARCH INTERESTS	Bayesian Methods, State Space Models, Sequential Monte Carlo, Simulation Techniques, Rare Events Estimation	
CURRENT POSITION	<b>University of Glasgow, UK,</b> Postdoctoral researcher in Statistics (with Prof. Dirk Husmeier), Position within the <a href="#">SoftMech Centre</a> (an EPSRC centre for Multiscale Soft Tissue Mechanics)	from May 2018
EDUCATION	<b>VU Amsterdam</b> , The Netherlands, Ph.D. in Econometrics, Supervisors: Prof. Siem Jan Koopman and Dr Lennart. Hoogerheide	Sep. 2015 – Autumn 2018 (expected)
	<b>University of Edinburgh, UK,</b> Postgraduate Research Visit at the School of Mathematics, Host Supervisor: Prof. Ruth King	Apr. 2017 – Jun. 2017
	<b>Tinbergen Institute</b> and <b>VU Amsterdam</b> , The Netherlands M.Phil., <i>major</i> : Econometrics, <i>minor</i> : Macroeconomics	Sep. 2013 – Aug. 2015
	<b>University of Warsaw</b> , Poland Faculty of Mathematics, Informatics and Mechanics B.Sc. in Mathematics, <i>minor</i> : Probability Theory	Oct. 2009 – Sep. 2013
	<b>University of Göttingen</b> , Germany Faculty of Economics and Business Administration M.Sc. programme, exchange within the Erasmus Programme	Sep. 2010 – Feb. 2011
	<b>Warsaw School of Economics</b> , Poland M.Sc. in Economics, <i>major</i> : Macroeconomic Analysis	Oct. 2009 – Jan. 2012
	<b>Warsaw School of Economics</b> , Poland B.Sc. in Economics, <i>major</i> : Macroeconomic Analysis, <i>minor</i> : Computational and Optimisation Methods in Decision Making	Oct. 2006 – Jul. 2009
PUBLICATIONS	<i>Bayesian Dynamic Modeling of High-Frequency Integer Price Changes</i> , with István Barra and Siem Jan Koopman, <i>Journal of Financial Econometrics</i> , 2018	
SUBMITTED AND UNDER REVISION	<i>Time-varying Combinations of Bayesian Dynamic Models and Equity Momentum Strategies</i> , with Nalan Baştürk, Stefano Grassi, Lennart Hoogerheide and Herman K. van Dijk, revision for <i>Journal of Econometrics</i>  <i>Partially Censored Posterior for Robust and Efficient Risk Evaluation</i> , with Lennart Hoogerheide, Siem Jan Koopman and Herman K. van Dijk, submitted to <i>Journal of Econometrics</i>	
ONGOING RESEARCH	<i>Bayesian Risk Evaluation for Long Horizons</i> , <b>Job Market Paper</b> available at <a href="https://aborowska.github.io/research/">https://aborowska.github.io/research/</a> <i>Semi-Complete Data Augmentation</i> , with Ruth King  <i>Bayesian Risk Evaluation for State-Space Models</i> , with Lennart Hoogerheide and Siem Jan Koopman	

CONFERENCE AND SEMINAR PRESENTATIONS	<b>4th Bayesian Young Statisticians Meeting</b> , Warwick, UK	02 – 03 Jul. 2018
	<b>1st Bayes Comp</b> , Barcelona, Spain	26– 28 Mar. 2018
	<b>10th International Conference of the ERCIM WG on Computational and Methodological Statistics</b> , London, UK	16– 18 Dec. 2017
	<b>8th European Seminar on Bayesian Econometrics</b> , Maastricht, The Netherlands	26– 27 Oct. 2017
	<b>Sequential Monte Carlo Workshop 2017</b> , Uppsala, Sweden	30 Aug. – 1 Sep. 2017
	<b>1st International Conference on Econometrics and Statistics</b> , Hong Kong	15–17 Jun. 2017
	<b>Statistics Seminar Series of the School of Mathematics</b> , Edinburgh, UK	19 May 2017
	<b>10th International Conference on Computational and Financial Econometrics</b> , Seville, Spain	9–11 Dec. 2016
	<b>3rd Bayesian Young Statisticians Meeting</b> , Florence, Italy	20–21 Jun. 2016
	<b>11th Netherlands Econometric Study Group Meeting</b> , Leuven, Belgium	17–18 Jun. 2016
	<b>TI Ph.D. Lunch Seminar</b> , Amsterdam, The Netherlands	24 May 2016
	<b>Econometrics Brown Bag Seminar</b> , Amsterdam, The Netherlands	21 Jan. 2016
TEACHING EXPERIENCE	<b>University of Glasgow</b> , UK	
	<i>MSc Project supervision</i> (Statistics)	Jul. – Aug. 2018
	Co-supervision with Dirk Husmeier	
	<b>VU Amsterdam</b> , the Netherlands	
	<i>Econometrics II</i> (B.Sc. course)	Feb. – Mar. 2017
	Teaching Assistant of Lennart Hoogerheide	
	<i>Business Mathematics</i> (B.Sc. course, evaluation: 3.8/5)	Sep. – Oct. 2016
	<i>Business Statistics</i> (B.Sc. course, evaluation: 4.1/5)	Feb. – Mar. 2016
	<b>Tinbergen Institute</b> , Amsterdam, the Netherlands	
	<i>Advanced Econometrics II</i> (M.Phil. course, evaluation: 4.1/5)	Jan. – Feb. 2015
PROFESSIONAL AND RESEARCH EXPERIENCE	Teaching Assistant of Kees Jan van Garderen	
	<i>Measure Theory and Stochastic Processes</i> (M.Phil. course, evaluation: 4.2/5)	Sep. – Oct. 2014
	Teaching Assistant of Peter J. C. Spreij	
	<b>University of Warsaw</b> , Poland	
	<i>Researcher</i>	Feb. 2012 – Sep. 2014
	Pension system reform modelling within the OLG framework under time inconsistency; welfare analysis of various fiscal closures; numerical model solving in Fortran; paper writing and editing.	
	<b>Civil Development Forum</b> , Warsaw, Poland	
	<i>Internship in the Analytical Department</i>	Jul. 2010
	Analysis of the privatisation process in Poland; comparison of fiscal policy rules in selected EU countries; development of a database on fiscal stability reforms in the EU.	
ADDITIONAL COURSES AND TRAININGS	<b>National Bank of Poland</b> , Warsaw, Poland	
	<i>Internship in the Economics Institute, Monetary Policy Strategy Bureau</i>	Aug. 2009
	Comparison and evaluation of the communication tools and institutional solutions implemented in selected central banks worldwide.	
	<b>Scalable Bayesian Inference</b>	
	Edinburgh, UK	Jun. 2018
	scalable algorithms for large datasets (embarrassingly parallel MCMC, approximate MCMC), scalable Bayesian methods for very high-dimensional data analysis	
	<b>Workshop on Machine Learning Models and Methods for Econometricians</b>	
	Maastricht, The Netherlands	Oct. 2017
	Gaussian Processes, Distributed and Subsampling MCMC, Variational Bayes, Deep Learning	
	<b>Intensive PhD level course on Sequential Monte Carlo Methods</b>	
	Uppsala University, Sweden	Aug. 2017
	Particle Markov Chain Monte Carlo, High-dimensional filtering, SMC for probabilistic graphical models and probabilistic programming	

**Reading Group on Bayesian Nonparametrics**

University of Edinburgh, UK

May – Jun. 2017

Introduction to Dirichlet process and their mixtures, Bayesian nonparametric regression

**Course on High Performance Computing**

VU Amsterdam, The Netherlands

Oct. 2016

Basics of Unix and cluster computing, Hadoop and data analytics, GPU programming, HPC cloud

**Summer School in Applied Macroeconomics**

University of Salento, Lecce, Italy

Jul. 2012

Programming in Matlab, VAR for monetary policy, state space models and the Kalman Filter

## SCHOLARSHIPS

**ISBA travel award for BAYSM 2018 meeting**

BAYSM 2018 organizing committee, 400 USD

Apr. 2018

**SMC2017 scholarship to attend the workshop and the intensive course**

SMC2017 organizing committee, 15,000 SEK

Aug. 2017

**Tinbergen Institute merit-based scholarship**

Tinbergen Institute, full scholarship, first and second year, 30,000 EUR

Sep. 2013 – Aug. 2015

**Student Exchange Scholarship**

Warsaw School of Economics, the LLP Erasmus

Sep. 2010 – Feb. 2011

**Scholarship for excellent academic achievements**

Warsaw School of Economics

Oct. 2007 – Sep. 2010

COMPUTER  
SKILLS

Strong experience in MATLAB, Fortran, R

Experience with Python, C, PHP, Visual Basic, SQL, BUGS/JAGS

Familiarity with EViews, Stata, SPSS

Other: L<sup>A</sup>T<sub>E</sub>X, Linux, GitHub, SVNFOREIGN  
LANGUAGES

Polish (native), English (fluent), German (advanced),

Russian (intermediate), French (basic), Dutch (basic)

## REFEREES

**Prof. Siem Jan Koopman**

The Department of Econometrics

Vrije Universiteit Amsterdam, e-mail: [s.j.koopman@vu.nl](mailto:s.j.koopman@vu.nl)**Dr Lennart Hoogerheide**

The Department of Econometrics

Vrije Universiteit Amsterdam, e-mail: [l.f.hoogerheide@vu.nl](mailto:l.f.hoogerheide@vu.nl)**Prof. Ruth King**

The School of Mathematics,

The University of Edinburgh, e-mail: [ruth.king@ed.ac.uk](mailto:ruth.king@ed.ac.uk)**Prof. Herman K. van Dijk**

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