	Katerina Petrova
Contact Information	20.1E74 Universitat Pompeu Fabra, Barcelona Email: <u>Katerina.Petrova@upf.edu</u>
Research Interests	Econometrics, Macroeconometrics, DSGE and VAR Models, MCMC Methods
Positions	Assistant Professor, Department of Economics, Universitat Pompeu Fabra, Barcelona Graduate School of Economics Affiliated Professor Sept 2019 –to date
	Assistant Professor, School of Economics and Finance, University of St Andrews Sept 2016 – May 2019
	Research Fellow, Warwick Business School, University of Warwick Sept 2014 – May 2016
Education	PhD Economics, Queen Mary University, London Oct 2016
	MSc Economics, Queen Mary University, London Sept 2012 (Distinction)
	<b>BA Politics, Kingston University, London</b> Sept 2011 (First Class Honors Degree)
	1st German High School 'Prof. K. Galaboff', Sofia Sept 2008 (Mathematics A Level Equivalent, Distinction)
Research	Publications:
	<ol> <li>Kernel-based Generalised Least Squares, with George Kapetanios and Ilias Chronopoulos (accepted, <i>Econometrics and Statistics</i>)</li> <li>Time-varying parameter structural model of the UK economy, with George Kapetanios, Riccardo Masolo and Matthew Waldron (<i>Journal of Economic Dynamics and Control</i>, 2019, Vol. 106 (103705))</li> <li>A quasi-Bayesian nonparametric approach to time varying parameter VAR models (<i>Journal of Econometrics</i>, 2019, Vol. 212(1), pp. 286-306)</li> <li>Quasi-Bayesian estimation of time varying volatility in DSGE models, (<i>Journal of Time Series Analysis</i>, 2019, Vol. 40, pp. 151-157)</li> <li>Forecasting with rich data: model comparison and evidence from European countries, with George Kapetanios and Gian Luigi Mazzi (chapter in the Handbook of Rapid Estimates, Eurostat, 2017)</li> <li>A time varying DSGE model with financial frictions, with Ana Galvão, Luidas Giraitis and George Kapetanios (<i>Journal of Empirical Finance</i>, 2016, Vol. 38, pp. 690–716)</li> <li>Working Papers:         <ol> <li>Robust Bayesian local likelihood method for modelling parameter time variation in DSGE models, with Ana Galvão, Luidas Giraitis and George Kapetanios, Luidas Giraitis and George Kapetanios (<i>Journal of Empirical Finance</i>, 2016, Vol. 38, pp. 690–716)</li> </ol> </li> </ol>

(submitted)

- 4. Algorithms for Proxy SVARs with time-varying parameters, with Haroon Mumtaz, (submitted)
- 5. A Generalised Lp-norm filter for time-varying parameter models, with George Kapetanios and Ilias Chronopoulos
- 6. Time varying cointegration and some UK Great Ratios, with George Kapetanios, Stephen Millard and Simon Price (submitted)
- 7. Forecasting with large macroeconomic and financial datasets in the presence of structural change, with Petros Dellaportas

## Work in Progress:

- 1. Robust Bayesian Inference for linear DSGE models, with Christian Matthes and Laura Liu
- 2. Refinements on VAR models with time-varying parameters, with Haroon Mumtaz
- 3. Price puzzles under imperfect information, with Marios Zachariadis
- 4. Stochastic volatility in risk-adjusted linear DSGE models, with Oliver de Groot
- 5. Structural change in the UK from the 19th century, with George Kapetanios, Riccardo Masolo and Ryland Thomas
- 6. Analysis of the most recent Bayesian modelling techniques for big data, with George Kapetanios and Massimiliano Marcellino

International Association of Applied Econometrics, Conference Grant \$1,500, with Dimitris Research Korobilis Grants Alan Turing Institute-HSBC-ONS Economic Data Science Awards 2018, £29,167.38, with Petros Dellaportas International Association of Applied Econometrics, Conference Grant \$1,000 Royal Economic Society, Special Project Grant Scheme, £3,500, with Oliver De Groot Bank of England Research Grant, £2,000, with Oliver De Groot KE&Impact Fund, St Andrews, Small Grant, £1,500, with Oliver De Groot KE&Impact Fund, St Andrews, Main Fund, £2,010, with Oliver De Groot Seminar University of California San Diego, Seminar 2019 Presentations Federal Reserve Board, Research Seminar, 2018 European Central Bank, Seminar, 2018 Bank of Ireland, Research Seminar, 2018 King's College London, Research Seminar, 2018 Queen Mary University London, Research Seminar, 2018 European Seminar on Bayesian Econometrics, Ca'Foscari University of Venice, Italy, 2016 Workshop Time Variation and Nonlinear Models in Econometrics and Macro, BoE, 2016 Bank of England, Seminar Series, 2015 University of Surrey, Macro Seminar Series, 2015 Warwick University, School of Economics, Macro Seminar, 2014

	Machine Learning Workshop, Barcelona Graduate School of Economics, 2019
Conference	Econometrics Workshop, Federal Reserve of St Louis, 2018
Presentations	Workshop on Machine Learning and Econometrics, CEMMAP, 2018
	Big Data in Predictive Dynamic Economic Modelling, University of Pennsylvania, 2017
	Royal Economic Society Conference, University of Bristol, 2017
	Time Varying Models for Macro Policy and Financial Stability, , European University Institute, 2017
	Conference on Computational Finance and Econometrics, Invited Session, Seville, 2016
	International Association for Applied Econometrics, Annual Conference, Milan, 2016
	Conference on Computational Finance and Econometrics, Invited Session, London, 2015
	Conference on Research on Economic Theory & Econometrics, Chania, 2015
	International Association for Applied Econometrics, Annual Conference, Thessaloniki, 2015
	Workshop on Time Varying Parameter Models, European University Institute, 2015
	Computational Finance and Econometrics, Invited Session on Macro and Forecasting, 2014
	Financial Econometrics and Empirical Finance Conference, Essex University, 2014
	BMRC-DEMS Conference on Macro and Financial Econometrics, Brunel University, 2014
	International Association for Applied Econometrics, Annual Conference, London, 2014
	Judgement and Combination in Forecasting and Policy Models Conference, Bank of England,
	2014
	Conference on Computational Finance and Econometrics, London, 2013
	Conference on Bayesian Econometrics, University of Bologna, Rimini, Italy, 2012
Refereeing Activity	Journal of Econometrics, Journal of the Royal Statistical Society, Journal of Business and Economic Statistics, Journal of Economic Dynamics and Control, Journal of Applied Econometrics, International Journal of Forecasting, Journal of Macroeconomics, Macroeconomic Dynamics, Economic Modelling, Journal of Forecasting
Consultancy	Central Bank of Ireland, 2019-to date European Central Bank, April 2018 – to date Bank of England, 2015 – to date EuroStat, Jan 2017 – Jan 2018
Teaching	<ol> <li>Econometrics 25117, Universitat Pompeu Fabra, 2019 - to date</li> <li>EC5203: Econometric Methods and Applications, University of St Andrews, 2016</li> <li>EC5221: Econometric Time Series Analysis, University of St Andrews, 2017-2018</li> <li>EC5609: Financial Econometrics, University of St Andrews , 2016-2018</li> </ol>