

Date of Birth: 17 April 1981
Citizenship: Chinese

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Wolfson College, Barton Road,
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Education and Degrees

10/2007–present, PhD in Economics, University of Cambridge.

Dissertation title: ‘Essays in Econometrics’.

Supervisor: Prof Richard J. Smith.

Research Advisor: Prof M. Hashem Pesaran.

Examiners: Prof Frank Windmeijer (external) and Dr Melvyn Weeks (internal).

Degree expected: November 2011.

08/2006–10/2007, PhD in Economics (finished 1st year courses), Michigan State University.
Scored three distinctions in all three areas in PhD preliminary exams.

07/2006, MSc in Econometrics and Mathematical Economics, London School of Economics.

07/2005, BSc in Economics, London School of Economics.

Research Interests

Primary: Theoretical and Applied Econometrics, Semiparametric Econometrics.

Secondary: Modelling and Forecasting Real Estate Market.

References

Prof Richard J. Smith, Faculty of Economics, University of Cambridge, Sidgwick Avenue, Cambridge, CB3 9DD, UK. Tel: +44 (0)1223 335230, email: rjs27@cam.ac.uk.

Prof M. Hashem Pesaran, Faculty of Economics, University of Cambridge, Sidgwick Avenue, Cambridge, CB3 9DD, UK. Tel: +44 (0)1223 335216, email: mhp1@cam.ac.uk.

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University Job Market Contacts

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Job Market Paper

*L*₂ Penalized Quantile Regression for Dynamic Random Effect Panel Data Models.

Abstract: This paper considers penalised quantile regression in dynamic random effects panel data models. Previous literature in quantile regression for panel data models advocates the application of penalisation to improve finite sample performance of the quantile regression estimator, focusing on fixed effects and the *L*₁ penalty. In this paper, we consider random effects and propose an *L*₂ penalised quantile regression estimator. We show that the *L*₂ penalty, which arises naturally in a Bayesian framework, is more appropriate for random effects models whereas the *L*₁ penalty, acting more like a model selection device, is more appropriate for fixed effects. Moreover, the *L*₂ penalty facilitates an asymptotic analysis in the presence of lagged dependent variables, whilst the *L*₁ penalty poses difficulties. We obtain the asymptotic properties of the proposed *L*₂ penalised quantile regression estimator, finding that the *L*₂ penalty introduces an asymptotic bias whose size depends on the penalisation coefficient, the variance of the individual effect and the coefficient on the lagged dependent variable. We show that the penalisation coefficient needs to grow at rate $\sqrt{T/N}$, which differs from the rate in fixed effects models. Monte Carlo experimentation suggests that our proposed estimator exhibits encouraging finite sample performance.

Keywords: quantile regression, random effect, dynamic panel data.

Other Research Papers

GEL-base AIC for Model Selection.

Confidence Sets for GMM Estimators under Weak Identification with Inequality Moment Restrictions. (with Heather Battey and Richard J. Smith).

Modeling and Forecasting Real Estate Returns: A Multivariate, Regime Switching Approach. (with Warapong Wongwachara).

Teaching Experience

- 10/2009–07/2011, Teaching Assistant, [Faculty of Economics](#), Cambridge.
Graduate (Master level) course in Econometrics and Advance Econometrics.
- 10/2010–07/2011, Teaching Fellow, [Faculty of Economics](#), Cambridge.
Graduate (Diploma level) course in Econometrics.
- 10/2008–07/2011, Supervisor (Tutorial Teacher), [St. John's College](#), Cambridge.
Undergraduate 1st year course in Quantitative Methods and 2nd year course in Intermediate Econometrics
- 10/2010–07/2011, Supervisor (Tutorial Teacher), [Hughes Hall](#), [St. Edmund's](#), and [Trinity Hall](#) Colleges, Cambridge.
Undergraduate 2nd year course in Intermediate Econometrics.
- 08/2006–06/2007, Teaching Assistant, [Department of Economics](#), MSU.
Undergraduate 2nd/3rd year course in Macroeconomics and Microeconomics.

Scholarships and Awards

- 10/2010–07/2011, Best Teaching Assistant Prize, Cambridge.
- 09/2008–06/2011, Tudor Studentship in Financial Econometrics, Cambridge.
- 06/2008–06/2009, Stevenson Fund, Cambridge.
- 08/2006–06/2007, Teaching Assistantship (merit based), Michigan State University.

Conferences and Summer Schools

- 09/2010, Student Econometrics Workshop (Oxford-Man Institute, Oxford, UK).
- 09/2007, Cambridge Judge Business School Doctoral Conference (Cambridge, UK).
- 01/2010, **cemmap** Masterclass on ‘Nonparametric Likelihood’.
- 06/2010, **cemmap** Masterclass on ‘Nonparametric Instrumental Variables Estimation’.
- 06/2009, **cemmap**/ ESRC Econometric Study Group Workshop on Quantile Regression, (London, UK)
- 06/2009, **cemmap** Masterclass on ‘New Developments in Econometrics’.
- 05/2009, **cemmap** Masterclass on ‘Semi and Non-parametric Econometric Methods’.
- 03/2009, 4th London and Oxbridge Time Series Workshop, (London, UK).
- 11/2008, CIMF Conference on ‘Forecasting under Model Instability’, (Cambridge, UK).
- 03/2008, **cemmap** Conference on ‘Inference in Partially Identified Models with Applications’ (London, UK).

Languages

English—fluent, Chinese—native.

Computer Skills

Matlab, Stata, EViews, Gauss.