

Curriculum Vitae — Markus Eberhardt

June 2014

PERSONAL AND CONTACT DETAILS

Date and Place of Birth: 8th May, 1974; Reutlingen, Germany **Family Status:** Married; one daughter (Rosalind)
Mail: School of Economics, University of Nottingham, Sir Clive Granger Building, Nottingham NG7 2RD, UK
Email: markus.eberhardt@nottingham.ac.uk **Web:** sites.google.com/site/medevecon **Twitter:** MEDevEcon

CURRENT POSITION & AFFILIATIONS

Lecturer (Assistant Professor) in Economics, School of Economics, University of Nottingham, since 2011
Internal Research Fellow: Centre for Finance, Credit and Macroeconomics (CFCM), Centre for Research in Economic Development and International Trade (CREDIT), Centre for Research on Globalisation and Economic Policy (GEP), Granger Centre for Time Series Econometrics
Research Associate, Centre for the Study of African Economies (CSAE), University of Oxford, since 2011

EDUCATION

DPhil (PhD) in Economics, University of Oxford, 2009
Thesis title: ‘Modelling technology in agriculture and manufacturing using cross-country panel data’
Supervisors: Dr F. Teal, Prof. S. Bond. *Examiners:* Prof. J. Temple (Bristol), Prof. J. Muellbauer (Oxford)
MPhil in Economics, University of Oxford, 2006
MA in Development Economics (with Distinction), University of East Anglia, 2002
BA (Hons) in Modern Chinese Studies (1st Class, with Distinction in Spoken Chinese), University of Leeds, 2000
Prior to this study of Chinese language at Renmin University of China, Beijing (1997 – 99); and of German Literature & Sinology at Albert-Ludwigs-Universität, Freiburg, Germany (1995 – 97)

FUNDING & AWARDS

2013 – 16	Economic and Social Research Council (ESRC) Future Research Leaders Grant: ‘Knowledge Accumulation and Diffusion: Analysing Heterogeneity in an Interconnected World,’ £179,869
2010 – 11	George Webb Medley Fund × 2 (University of Oxford): £322; £245 (travel grants)
2010	Young Researcher Travel Award (James A. Baker III Institute for Public Policy, Rice U): \$750
2009 – 11	ESRC Post-doctoral Fellowship: ‘Essays in Empirical Productivity Analysis,’ £150,369
2004 – 08	ESRC 1+3 Doctoral Scholarship: fees & maintenance
2002	Awards for Best Performance and Best Dissertation (MA Development Economics, UEA)

RESEARCH

Research Interests

Primary Economic Development, Technological Change & Growth (*JEL code:* O)

Secondary Firm Objectives, Organisation & Behaviour (L2), Applied Panel Econometrics (C2)

Publications in Peer-Reviewed Journals (titles hyperlinked)

‘No Mangoes in the Tundra: Spatial Heterogeneity in Agricultural Productivity Analysis’

Oxford Bulletin of Economics and Statistics, 75(6): 914-939, 2013, with F. Teal (Oxford)

‘Do Spillovers Matter When Estimating Private Returns to R&D?’

The Review of Economics and Statistics, 95(2): 436-448, 2013, with C. Helmers (Santa Clara) & H. Strauss (EIB)

‘Structural Change and Cross-Country Growth Empirics’

World Bank Economic Review, 27(2): 229-271, 2013, with F. Teal (Oxford)

‘Econometrics for Grumblers: A New Look at the Literature on Cross-Country Growth Empirics’

Journal of Economic Surveys 25(1): 109-155, 2011, with F. Teal (Oxford)

‘It’s not Technical Progress: Empirical TFP Determination and Structural Change’

Oxonomics 3(1): 10-15, 2008

Working Papers (titles hyperlinked)

‘Agricultural Technology and Structural Change’ June 2014, with D. Vollrath (Houston)

‘This Time They’re Different: Heterogeneity and Nonlinearity in the Relationship between Debt and Growth’

R&R Journal of International Economics, May 2014, with A. Presbitero (IMF)

[media coverage: *Financial Times*]

‘Let’s Make Software Patentable...or Maybe Let’s Not: Evidence from the Indian Software Industry’

May 2014, with M. Fafchamps (Stanford), C. Helmers (Santa Clara) and M. Patnam (ENSEA)

‘The Magnitude of the Task Ahead: Productivity Analysis with Heterogeneous Technology’

submitted March 2014, with F. Teal (Oxford)

‘Nonlinearities in the Relationship between Debt and Growth: Evidence from Co-Summability Testing’

submitted March 2014

‘From One to Many Central Plans: Drug Advertising Inspections and Intra-National Protectionism in China’

February 2014, with Z. Wang (Hull) and Z. Yu (Nottingham)

‘Is the Dragon Learning to Fly? The Chinese Patent Explosion at Home and Abroad’

submitted November 2013, with C. Helmers (Santa Clara) and Z. Yu (Nottingham)

[media coverage: *BBC World Service*, *China Daily*, *FT Investment Adviser*]

‘Accounting for unobserved heterogeneity in panel time series models’ November 2013, with S. Bond (Oxford)

‘Market integration and disintegration in Qing Dynasty China’

August 2013, with J. Li (Nottingham), D. Bernhofen (American University) and S. Morgan (Nottingham Ningbo)

‘Untested Assumptions and Data Slicing: A Critical Review of Firm-Level Production Function Estimators’

November 2010, with C. Helmers (Santa Clara)

‘Panel Econometrics for Worriers’ November 2010, with A. Banerjee (Birmingham) and J.J. Reade (Reading)

Research in Progress

‘Conned by Convergence Analysis? Sectoral Evidence for Manufacturing Output and Agricultural Yields’

with D. Vollrath (Houston)

‘Grav_ity’ and ‘Gravi_ty’, both with R. Desbordes (Strathclyde)

‘Investment in Knowledge Based Capital and Productivity in OECD Industries’

‘Knowledge Diffusion in an Interconnected World with Heterogeneous Technology’

‘Knowledge Spillovers: Evidence from Monthly Patent Statistics’

‘Measuring TFP and Understanding its Determinants’ with G. Everaert (Ghent) and R. Schoonackers (Ghent)

‘Poisson Pseudo Maximum Likelihood Estimation of Heterogeneous Gravity Models with Common Factors’

with R. Desbordes (Strathclyde) and J. Santos Silva (Essex)

Stata Code (titles hyperlinked)

‘Estimating panel time series models with heterogeneous slopes’ *Stata Journal* 12(1): 61-71, 2012

‘MULTIPURT: Stata module to run 1st and 2nd generation panel unit root tests’, 2011

‘XTCD: Stata module to investigate variable/residual cross-section dependence’, 2011

‘XTMG: Stata module to estimate panel time series models with heterogeneous slopes’, 2011

Book and Book Chapters (titles hyperlinked)

‘Dynamics and Long Panels’ in: F. Teal and M. Söderbom (lead authors) *Empirical Development Economics*, book manuscript, Routledge; three chapters on panel time series analysis, publication in September 2014.

‘Ghana and Côte d’Ivoire: Changing Places’ with F. Teal (Oxford) in: Graduate Institute of International and Development Studies (eds.) *Africa: 50 years of independence*, pp.33-49, Geneva: Graduate Institute, 2010

Cross-country Growth Empirics for Grumblers: Modelling Technology in Agriculture and Manufacturing using Cross-country Panel Datasets Saarbrücken: VDM Verlag. ISBN: 978-3-639-22559-4, 2010 (DPhil thesis)

PREVIOUS ACADEMIC EMPLOYMENT & SHORT-TERM CONSULTANCY

- 2013 – 14 **Consultant**, Effective States and Inclusive Development (esid) Research Centre, University of Manchester – ‘The Political Economy Determinants of Economic Growth’ (PIs: K. Sen, L. Prichett)
- 2009 – 11 **ESRC Postdoctoral Research Fellow** (Full-Time), CSAE, University of Oxford
- 2009 **Research Officer** (Full-Time), CSAE, University of Oxford – ‘Agricultural Production & Trade’
- 2009 **Consultant**, International Development Research Center, Canada – ‘FDI in Ghana’
- 2009 **Consultant**, Oxford QEH/DfID – ‘Smallholder Agriculture in Ethiopia’
- 2008 – 09 **Consultant**, World Bank, Nigeria office – ‘Industrial Development Policy in Nigeria’
- 2007 – 08 **Research Assistant** to Dr L. Yueh, Oxford – ‘Technology Transfer in China’
- 2007 – 09 **Consultant**, UNIDO, Vienna, Austria – ‘Industrial Development Report 2009’
- 2002 – 04 **Research Officer** (Full-Time), School of Management, Bath – ‘Sourcing Strategies in China’

PROFESSIONAL ACTIVITIES

Committee Membership and Departmental Roles

Nottingham Publicity & Outreach Committee; Research Committee; Research Student Placement Officer

Peer Review and Supervision

Member DfID/ESRC Growth Research Programme (DEGRP) Academic Assessor Group, June 2013 (×13 reviews), February 2014 (×6), and Commissioning Panel, March 2014.

Member ESRC Peer Review College, since July 2010 (×4).

Member University of Nottingham Peer Review College, since November 2012 (×2).

PhD Examiner (Internal) University of Nottingham: C. Parsons (2012)

PhD Examiner (External) University of Ghent: S. De Schryder (scheduled 2014)

Supervisor, Extended Essay/Dissertation/Doctoral Thesis

PhD programme in Economics, University of Nottingham:

S. Mukherjee, *Structural Change in India*, joint with Prof. O. Morrissey, 2012 – 15

J. Li, *Market Integration in Qing Dynasty China*, joint with Prof. S. Morgan, 2013 – 14

D. Cain, *A Trade Gravity Model for CARICOM*, joint with Dr P. Marsh, 2013 – 16

L. Roger, *The Determinants of Foreign Aid Effectiveness*, joint with Prof. O. Morrissey, 2014 – 17

MSc in Economics for Development, University of Oxford: 2010

MSc programme in Economics, University of Nottingham: 2012 (× 2), 2013 (× 4), 2014 (× 2)

Undergraduate programme in Economics, University of Nottingham: 2012 (× 6), 2013 (× 6), 2014 (× 5)

Reviewer for the *American Journal of Agricultural Economics*, *The B.E. Journal of Economic Analysis & Policy*, *The B.E. Journal of Macroeconomics*, *Bulletin of Economic Research*, *China Economic Review*, *Ecological Economics*, *Econometrics Reviews*, *Empirical Economics* (×2), *Energy Policy*, *Journal of African Economies* (×6), *Journal of Applied Econometrics*, *Journal of Development Economics* (×2), *Journal of Development Studies* (×3), *Journal of Economic Inequality*, *Journal of Macroeconomics*, *Oxford Bulletin of Economics and Statistics* (×6), *Oxford Development Studies* (×3), *Oxford Economic Papers* (×10), *The Quarterly Review of Economics and Finance* (×3), *Regional Science and Urban Economics*, *Regional Studies*, *Research Policy* (×2), Routledge UK, *South African Journal of Economics*, *Structural Change and Economic Dynamics*, UNCTAD, The World Bank (×2), *World Development* (×3), *The World Economy* (×8).

Invited Seminars

- 2014 OECD STI; CERDI Auvergne; Nottingham CREDIT; Hamburg (*scheduled*); Ghent (*scheduled*)
- 2012 Oxford OIPRC; Nottingham CFCM; Nottingham NUBS
- 2011 Leicester; Nottingham GEP; Oxford (×2); Southern Denmark; Strathclyde
- 2010 Birmingham; Manchester (IDPM); Oxford (×2)
- 2007 – 09 Birmingham; Brown; Gothenburg; Oxford (×4)

Conference and Workshop Presentations

- 2014 ETSG Annual Conference, Munich (*scheduled*); Warwick University Economic Growth Workshop (*scheduled*); International Association for Applied Econometrics Conference, QMU London (*scheduled*); GEP Conference ‘Firm & Technology Dynamics: A Global Perspective,’ Nottingham; RES Annual Conference, Manchester; CSAE Annual Conference, Oxford
- 2013 6th GEP Conference, Ningbo, China; HKU-University of Nottingham Trade Workshop, Hong Kong; UNU-WIDER conference on ‘Inclusive Growth in Africa,’ Helsinki; SIRE Workshop on ‘Theory and Estimation of Gravity Equations,’ Strathclyde University, Glasgow; 19th International Panel Data Conference, Cass Business School, London; Cross-Section Dependence in Panel Data Models, Cambridge; RES Annual Conference, Egham; CSAE Conference, Oxford
- 2012 5th GEP Conference, Ningbo; 4th GEP/GRI/KIEP Conference on International Trade, Seoul; 3rd Development Economics Workshop, Tilburg; RES Conference, Cambridge; CSAE Conference
- 2011 4th GEP Conference, Ningbo; CUHK-GEP Joint Conference, Hong Kong; UK Stata User Group Meeting, Cass Business School, London; 6th Annual Conference of the EPIP Association, Brussels; Growth & Business Cycles in Theory & Practice VI, Manchester; Applied Economics Meeting, Huelva; RES Conference, Egham; CSAE Conference, Oxford.
- 2010 Macroeconometric Workshop, Berlin; Comparative Analysis of Enterprise Data (CAED) Conference, London; Meeting of the Irish Society of New Economists (ISNE), Dublin; Dynamics, Economic Growth and International Trade (DEGIT) Conference, Frankfurt; Congress of the European Economic Association (EEA), Glasgow; International Conference on Panel Data, Amsterdam; Applied Economics Meeting, Seville; North American Productivity Workshop (NAPW), Houston; RES Conference, Guildford; CSAE Conference, Oxford; COINVEST, Lisbon.
- 2007 – 09 Northeastern Universities Development Consortium (NEUDC) Conference, Boston; Nordic Econometric Meeting, Lund; World Conference of the Spatial Econometrics Association, Barcelona; International Conference on Panel Data, Bonn; CSAE Conference, Oxford; Factor Structures for Panel & Multivariate Time Series Data Conference, Maastricht (Poster); ESRC Development Economics Conference, IDS, Sussex; Nordic Conference for Development Economics, Stockholm; UNIDO Expert Group Meeting, Vienna (×3).

Conference Organisation

Organising Committee Annual CSAE Conference, University of Oxford, 2010 – 13.

Organising Committee Annual GEP Conference, University of Nottingham, since 2012.

Short Term Academic Visits

- 2014 Oxford CSAE, March
OECD STI (Directorate for Science, Technology and Industry), February

SKILLS & TRAINING*Computing Skills & Languages*

Computing skills: Extensive experience with statistical programmes (primarily Stata; also GAUSS, R). Teaching experience of applied econometrics using Stata (PG, PhD) and SPSS.

Languages: English (fluent), German (mother tongue), Mandarin Chinese (fluent), French (intermediate level).

Summer Schools & Other Professional Training

‘Spatial Econometrics Advanced Institute’ Spatial Econometric Association, Rome, 2014

‘Postgraduate Certificate in Higher Education’ (PGCHE) University of Nottingham, 2014

‘EPO Patent Information for Beginners Seminar’ European Patent Office, Vienna, 2014

‘China Patent Forum’ chaired by L. Minford (Rouse UK), Management Forum, London, 2012

- ‘**Discrete Choice Modelling**’ Prof. B. Green (NYU), cemmap, 2012
- ‘**IO: Market Structure, Macro and Trade**’ Prof. J. Sutton (LSE), Prof. C. Syverson (Chicago Booth), RES, 2011
- ‘**Programming econometric methods in Stata/Mata**’ D. Drukker (StataCorp), cemmap, 2010
- ‘**Time Series Modelling and Analysis**’ Prof. A. Harvey (Cambridge), Queen Mary University, 2010
- ‘**Spatial Econometrics**’ Prof. J. Hays (Illinois), Essex University Summer School, 2009
- ‘**What’s New in Econometrics?**’ Prof. G. Imbens (Harvard) & Prof. J. Wooldridge (Michigan), cemmap, 2009
- ‘**Economic Growth and Empirics**’ Prof. S. Durlauf (Wisconsin-Madison), Rethymno, Crete, 2007
- ‘**Panel Time Series**’ Prof. R. Smith (Birkbeck), cemmap, 2007

TEACHING EXPERIENCE

Postgraduate level

- 2014 **Visiting Lecturer** (PhD-level), CERDI, Université d’Auvergne
4-day course: lectures on ‘Panel Time Series’.
- 2013 **Visiting Lecturer** (PhD-level), University of Glasgow
3-day course: lectures and Stata labs on ‘Panel Time Series’.
- 2013 **Visiting Lecturer** (PhD-level), esid/Institute of Economic Growth, Delhi
2-day course: lectures and Stata labs on ‘Panel Time Series’.
- 2012 **Visiting Lecturer** (PhD-level), ESRC/Scottish PhD Program/sire, University of Edinburgh
3-day course: lectures and Stata labs on ‘Panel Time Series’.
- 2011 – **Lecturer**, MSc Programme in Economics, School of Economics, University of Nottingham
Teaching Evaluation in parentheses: 1 – excellent, 5 – poor; top 25% for the School: ≤ 1.4 (2012/3)
L14005 Economic Policy Analysis (2012/3: 1.7, 2013/4: 1.3);
L14009 Economic Data Analysis (2011/2: 1.5, 2012/3: 1.4, 2013/4: 1.6);
L14036 Growth (2012/3: 1.4, 2013/4: 1.7);
L14050 Development Policy Analysis (2011/2, 2012/3: not evaluated);
L14099 Economic Research Methodology (2011/2, 2012/3, 2013/4: not evaluated)
- 2011 – 12 **Visiting Lecturer**, Centre for Microdata Methods and Practice (cemmap), IFS/UCL, London
3-day course: lectures and Stata labs on ‘Panel Time Series’ (with Prof. R. Smith, Birkbeck).
- 2009 – 11 **Lecturer**, MSc Economics for Development, Department of Economics, University of Oxford
Lectures and Stata labs on ‘Panel Time Series & Common Factor Models’.
- 2009 – 10 **Class Teacher**, Foreign Services Programme, Queen Elizabeth House, Department of International Development, University of Oxford. ‘International Trade & Finance’.
- 2009 **Visiting Lecturer** (PhD-level), Department of Economics, Gothenburg University/Sweden.
2-day course: Lectures and Stata lab on ‘Panel Time Series’.
- 2008 – 10 **Class Teacher and Lecturer**, MSc Global Governance & Diplomacy and MPhil Development Studies, Queen Elizabeth House, University of Oxford. Teacher for ‘Quantitative Methods’.

Undergraduate level

- 2008 – 11 **Stipendiary Lecturer in Economics**, St Catherine’s College, Oxford
Tutor for 2nd year undergraduate core module ‘Quantitative Economics’.
- 2008 – 10 **Undergraduate Tutor**, Department of Economics, University of Oxford
‘Economics for Developing Countries’.
- 2005 – 06 **Undergraduate Tutor**, St John’s College, Oxford
‘Introduction to Mathematical Methods’.

ACADEMIC REFERENCES

Prof. Anindya Banerjee Department of Economics, University of Birmingham, Edgbaston, Birmingham, B15 2TT
Tel: 0121 4146646, Email: a.banerjee@bham.ac.uk

Prof. Steve Bond Nuffield College, New Road, Oxford, OX1 1NF
Tel: 01865 278674, Email: steve.bond@nuffield.ox.ac.uk

Dr Francis Teal CSAE, Department of Economics, University of Oxford, Manor Road, Oxford, OX1 3UQ
Tel: 01865 271084, Email: francis.teal@economics.ox.ac.uk

Prof. Jonathan Temple Department of Economics, University of Bristol, 8 Woodland Road, Bristol BS8 1TN
Tel: 0117 9288430, Email: jon.temple@bristol.ac.uk