Tom Holden: Curriculum Vitae

Researcher, Deutsche Bundesbank Born: 13/04/1983 Married

DPhil in Economics, University of Oxford, 2013 Citizenship: British Two children

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Education:

DPhil in Economics, University of Oxford, October 2008 – May 2013

Title: "Three essays in dynamic macroeconomics." Advisor: Professor Simon Wren-Lewis

MPhil in Economics, University of Oxford, October 2006 - September 2008

BA (Hons) in Mathematics and Philosophy, University of Oxford, October 2001 – September 2005

Employment:

August 2018 – Now Researcher (Subject Specialist), Research Department, Deutsche Bundesbank

August 2018 – July 2021 Lecturer (Part Time), University of Surrey, Guildford Sept. 2011 – July 2018 Lecturer (Full Time), University of Surrey, Guildford

Oct. 2010 – July 2011 Stipendiary Lecturer, Trinity College, Oxford

Oct. 2008 – Apr. 2010 Co-founder, Treasurer, Director, Wikimedia UK (registered charity)

August 2005 - June 2006 Programmer, EA Games, Criterion Studios, Guildford

Academic visits:

August 2015 – Feb. 2016 University of Washington

Publications:

"Existence and uniqueness of solutions to dynamic models with occasionally binding constraints." *Review of Economics and Statistics.* Forthcoming.

"Credit crunches from occasionally binding bank borrowing constraints." (With P. Levine and J. Swarbrick.) *Journal of Money, Credit and Banking.* 2020.

"Reconciling Jaimovich-Rebello Preferences, Habit in Consumption and Labour Supply." (With P. Levine and J. Swarbrick.) *Economics Letters*. 2018.

Recent working papers:

"Computation of solutions to dynamic models with occasionally binding constraints."

Reject and Resubmit, Quantitative Economics.

"Robust real rate rules."

"Capital heterogeneity and investment prices: How much are investment prices declining?" (With Francois Gourio and Matthew Rognlie.)

"Quantifying the transmission of European sovereign default risk." (With Ana-Maria Dumitru.)

"Efficient simulation of DSGE models with occasionally binding constraints." (With Michael Paetz.) *Revise and Resubmit, Journal of Economic Dynamics and Control (Lapsed).*

"Medium-frequency cycles in a stationary world."

"Business cycles in space." (With Jonathan Swarbrick.)

Policy papers:

"Universal Basic Income as a tool for tax and benefit reform."

Social Liberal Forum Publication, Number 8, August 2017.

Also published in "Four go in search of big ideas", edited by Helen Flynn.

Refereeing:

Canadian Journal of Economics, CESifo Economic Studies, Econometrics, Economic Modelling, European Economic Review, German Economic Review, International Review of Economics & Finance, Journal of Econometrics, Journal of Economic Dynamics and Control, Journal of International Economics, Journal of Political Economy, Macroeconomic Dynamics, Oxford Commonwealth Law Journal, Oxford Economic Papers, Portuguese Economic Journal, Review of Economics and Statistics, Royal Economic Society Conference 2016-2017

Selected software packages:

"DynareOBC": Package for the simulation of models with occasionally binding constraints in Dynare, available from https://github.com/tholden/dynareOBC.

"EST-NLSS": Package for the estimation and smoothing of highly non-linear dynamic state-space models, available from https://github.com/tholden/EST-NLSS.

"Custom Dynare": Version of Dynare supporting other non-linear estimation methods, plus parallelism, available from https://github.com/tholden/dynare.

"DynareRemoveLocalVariables": A pre-preprocessor for Dynare that substitutes out model local variables, available from https://github.com/tholden/DynareRemoveLocalVariables.

"DynareTransformationEngine": Capable of automatically defining shock processes (including spatially correlated ones), transforming variables to more accurate forms and performing stochastic detrending, available from https://github.com/tholden/DynareTransformationEngine.

"DoubleDouble": Package for extended ("double double") precision computation, available from https://github.com/tholden/DoubleDouble.

Successful funding bids	. consulting, a	icademic award	s and	other achievements:
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Granted EC Horizon 2020 bid (as Principal Investigator). Approximate value
to U. of Surrey: £280,000. Details: http://www.monroeproject.eu/.
Invited to give a course to the Deutsche Bundesbank on occasionally binding
constraints and related issues.
Invited to consult for the ECB on occasionally binding constraints, nonlinear
estimation, and related issues.
Invited to give evidence to IMF and CFPB on computational tools for
macroeconomics.
Invited to EC to give evidence on research and innovation in DSGE models.
Thesis runner-up for the Edgeworth Prize.
Granted EC FP7 bid (as CI), approximate value to U. of Surrey: £280,000.
Granted ESRC bid (as CI), approximate value to U. of Surrey: £600,000.
Max Weber Fellowship, European University Institute (declined).
Royal Economic Society Junior Fellowship (declined).
Stipendiary Lectureship, Trinity College Oxford.
2007 International Econometric Games winning team member.
ESRC 2+2 award, with additional advanced quantitative training stipend.

EPSRC doctoral award for research in Analytic Topology (declined).

Presentations:

October 2005

2022	T2M, Midwest Macro, ERMAS, Friendly Faces (Bundesbank/KC Fed)
2020	Bundesbank, World Congress of the Econometrica Society, EEA
2019	European Commission, U. of Lancaster, Bundesbank, Philadelphia Fed, SCE
	CEF, EEA, ESEM
2018	ASSA (Poster), Bundesbank, Bank of England, Central Bank of Latvia, ZEW,
	European Commission, SCE CEF, EEA, ESEM
2017	Durham, Netherlands' PBL, ERMAS, University of Surrey CIMS,
	ERCIM/CFE
2016	UBC, St. Louis Fed, ECB, Deutsche Bundesbank, T2M Bank of France,
	Bilkent U., TCD, Lancaster U., MACFINROBODS workshop National Bank of
	Belgium, SCE CEF, ESEM, WGEM ECB, Bank of Canada, U. of Glasgow,
	Dynare Conference: Bank of Italy, U. of St. Gallen
2015	U. of Washington, FRB, Dallas Fed, UT Austin, IMF, CFPB, Western
	Washington U., MACFINROBODS workshop City U., SCE CEF, U. of Surrey
2014	Nuffield NuMERIC conference, ESEM, EC Workshop: Research & Innovation
	in Applied Models of Growth for Policy-Making, Fall MWM, ERCIM/CFE,
	CIMS
2013	ESEM, EEA, SCE CEF, RES, City U., Birkbeck College

2012 ERCIM/CFE, Dynare Conference: Zurich, SCE CEF, Hamburg Workshop:

Models of Expectation Formation, CIMS

2011 13th ZEW Summer Workshop for Young Economists, U. of Oxford, CMAIF,

MWM, RES, 6th PhD Presentation Meeting of the RES

2010 XV Vigo Workshop on Dynamic Macroeconomics, U. of Birmingham, U. of

Oxford, BMRC-QASS, Strasbourg Doctoral Workshop: Dynamic Macro

Teaching and supervision:

September 2017 PhD Student Jonathan Swarbrick placed at the Bank of Canada.

September 2017 Summer course on OBCs in DSGE models at the U. of Surrey.

June 2016 Course on OBCs and related topics at the Deutsche Bundesbank.

Autumn 2014 PhD mathematics lectures.

Summer 2014 to 2019 Course leader for summer course in advanced macroeconomics at the U. of

Surrey. Teaching courses on: Advanced MATLAB, Advanced Dynare, Non-

linear Estimation.

Spring 2014 to 2018 PhD macroeconomics lectures.

Summer 2012 and on PhD and MSc supervision. Currently second supervisor to two PhD students.

Spring 2012, 2013 Intermediate Microeconomics, University of Surrey, Guildford.

Autumn 2011 to 2017 Industrial Organization, University of Surrey, Guildford.

2008-2011 1st & 2nd year Macroeconomics and Quantitative Economics, Assorted

Colleges, Oxford.

Referees (contact details available on request, or via a search engine):

Professor Paul Levine (University of Surrey)

Professor Fabio Ghironi (University of Washington)

Professor Peter McAdam (Federal Reserve Bank of Kansas City)

Professor Robert Kollmann (ECARES)

Professor Guido Ascari (Oxford)