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Carlos Carrillo-Tudela, Michael Graber, Klaus Waelde



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# Unemployment and Vacancy Dynamics with Imperfect Financial Markets \*

Carlos Carrillo-Tudela <sup>†</sup>  
University of Essex,  
CEPR, CESifo and IZA

Michael Graber <sup>‡</sup>  
University College London,  
IFS, and Statistics Norway

Klaus Waelde <sup>§</sup>  
University of Mainz  
and CESifo.

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## Abstract

This paper proposes a simple general equilibrium model with labour market frictions and an imperfect financial market. The aim of the paper is to analyse the transitional dynamics of unemployment and vacancies when financial constraints are in place. We model the financial sector as a monopolistically competitive banking sector that intermediates financial capital between firms. This structure implies a per period financial resource constraint which has a closed form solution and describes the transition path of unemployment and vacancies to their steady state values. We show that the transition path crucially depends on the degree of wage flexibility. When wages do not depend on the unemployment rate the transition path is always downward sloping. This implies unemployment and vacancies adjust in opposite directions as observed in the data. When calibrating the model to the Great Recession and its aftermath we find that the lack of an improvement in the financial sector's effectiveness to intermediate resources played a crucial role in the slow recovery of the labour market.

*Keywords:* Job search, unemployment, financial markets.

*JEL:* J63, J64, G10.

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<sup>†</sup>Corresponding author: Department of Economics, University of Essex, Wivenhoe Park, Colchester, CO4 3SQ, UK; cocarr@essex.ac.uk

<sup>‡</sup>Correspondence: Department of Economics, University College London, Gower Street, London, WC1E 6BT, UK; michael.r.graber@gmail.com

<sup>§</sup>Correspondence: Department of Economics, Johannes Gutenberg University of Mainz, Jakob Welder-Weg 4, 55128 Mainz, Germany; klaus@waelde.com

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