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Markus Pettersson

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Home contact information

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STOCKHOLM SCHOOL OF ECONOMICS

Placement Director: Tore Ellingsen TORE.ELLINGSEN@HHS.SE +46 (0)8 736 92 60
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Office contact information

Department of Economics Stockholm School of Economics Box 6501

SE-113 83 Stockholm, Sweden

Personal information

Date of birth: 21 November 1992

Citizenship: Swedish

Undergraduate studies

BSc in Mathematics, Stockholm University, 2019 BSc in Economics, University College London, First Class Honours, 2016 Visiting undergraduate student, Georgetown University, 2014–2015

Master studies

MSc in Economics, Stockholm School of Economics, 2018

Thesis: Mass challenge or vital necessity? An evaluation of Swedish post-war immigration in a general equilibrium framework

Doctoral studies

Stockholm School of Economics, 2018 to present

PhD Candidate in Economics <u>Expected completion</u>: 2023 <u>Supervisor</u>: Lars Ljungqvist

References:

Professor Lars Ljungqvist Professor Paul Segerstrom Professor David Domeij

Department of Economics Department of Economics Stockholm School of Economics Stockholm School of Economics Stockholm School of Economics Stockholm School of Economics David Domeij

Stockholm School of Economics Stockholm School of Economics David Domeij

Bars Ljungqvist Professor Paul Segerstrom Department of Economics Stockholm School of Economics Stockholm School of Economics David Domeij

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Research fields

Primary fields: Macroeconomics

Secondary fields: Demographic economics, Economic growth

Teaching experience

Autumn 2020 Advanced Mathematics for Economic Analysis (MSc level)

Teaching assistant for Professor Mark Voorneveld

Spring 2020	Teaching assistant for Professor Kelly Ragan
Spring 2020	Makroteori och ekonomisk-politisk analys (BSc, in Swedish) Teaching assistant for Professor David Domeij
Autumn 2017	International Economics (BSc level) Teaching assistant for Professor Paul Segerstrom

Other experience

2022	Sveriges riksbank (central bank of Sweden), Research Division, PhD intern
2017-2018	$\label{thm:continuous} \mbox{Financial Supervisory Authority)}, \mbox{\it Student associate}$
2017	US Embassy Sweden, US Foreign Commercial Service, Summer intern
2015	BNP Paribas, Global Markets, $Summer\ analyst$
2015	US House of Representatives, Office of Congressman Ed Perlmutter, Legislative intern

Conference and seminar presentations (including scheduled)

2022 ENTER Jamboree at Universidad Autónoma de Barcelona, Sveriges riksbank, Stockholm School of Economics Brown Bag (twice), Universidad Autónoma de Barcelona Macro Group, Swedish Conference in Economics, European Winter Meeting of the Econometric Society

2021 Stockholm-Uppsala Doctoral Student Workshop in Economics

Skills

Languages: Swedish (native), English (fluent), Norwegian (conversational)

Computer: MATLAB, Stata, LATEX

Research papers in progress

 $\label{lem:endogenous} Endogenous\ technological\ change\ along\ the\ demographic\ transition$ Job market paper

I study the effect of demographic change on economic growth under endogenous, R&D-driven technological change. Qualitatively, population ageing generates two opposing forces: increased R&D and capital investments on the one hand, and a decreasing share of workers in the population on the other. I evaluate these channels quantitatively along the demographic transition using a calibrated overlapping generations model with idiosyncratic income risk, mortality risk, intensive and extensive labour supply margins and endogenous technological change. Considering the United States between 1950 and 2100, I find that the demographic transition: (i) increased per-capita output by 0.35 percent per year between 1950 and 2000; (ii) has no net impact on twenty-first century growth; and (iii) accounts for a 0.65 percentage point decline in growth rates between 1995 and 2025. The main positive driver is endogenous technological change, whose growth contribution more than doubles that of capital deepening between 1950 and 2100. Removing this mechanism eliminates all positive income effects.

A nonhomothetic price index and inflation heterogeneity with Philipp Hochmuth and Christoffer Weissert

We derive a microfounded, nonhomothetic generalization of all known superlative price indices, including the Fisher, the Törnqvist, and the Sato-Vartia indices. The index varies continuously along the expenditure distribution, aggregates consistently across heterogeneous households and largely avoids the need for estimation. In an empirical application to the United States using CEX-CPI data for the period 1995–2020, we find: (i) poor and rich households experience on average the same inflation rate; but (ii) inflation for the poorest decile is more than 2.5 times as volatile as that of the richest decile; and (iii) this higher volatility primarily stems from a larger exposure to price changes

in food, gas and utilities. Points (i) and (ii) stand in contrast to findings based on the methods used in most previous measurements of inflation inequality, since these methods do not completely purge the underlying cost-of-living indices from income effects.