# Matthias Hänsel

Contact Information Maltgatan 12, Lgh 1312 Personal Information

Date of Birth: September 17, 1994

Citizenship: Germany Website: https://mhaensel.github.io

matthias.hansel@hhs.se

EDUCATION

12079 Stockholm

Stockholm School of Economics

PhD in Economics Spring 2025 (expected)

New York University

Visiting PhD Student Jan. 2023 – May 2023

Tilburg University

Research Master (MSc) in Economics (with distinction)

Aug. 2017 – July 2019

University of Cologne

BSc in Economics Oct. 2013 – Sep. 2016

References

Prof. Lars Ljungqvist (Advisor)

Stockholm School of Economics

Lars.Ljungqvist@hhs.se

Prof. David Domeij (Advisor)

Stockholm School of Economics

Agostino.Consolo@ecb.europa.eu

David.Domeij@hhs.se

Prof. Tore Ellingsen

Stockholm School of Economics

Tore.Ellingsen@hhs.se

Dr. Agostino Consolo

European Central Bank

RESEARCH INTERESTS

Macroeconomics, Heterogeneous Agents, Monetary & Fiscal Policy, Labor Markets, Numerical Methods

Relevant Professional Experience

European Central Bank Frankfurt, Germany

PhD trainee in the Supply Side, Labor and Surveillance (SSL) division

Jul. 2022 – Nov. 2022

German Council of Economic Experts Wiesbaden, Germany

Intern at the Scientific Staff

May 2016 – Jun. 2016

ifo Institute for Economic Research

Munich, Germany

Intern at the ifo Center for Public Finance and Political Economy

Mar. 2016 – Apr. 2016

TEACHING EXPERIENCE

Firms, Miscallocation and the Macroeconomy (MSc level)

Teaching Assistant for Ass. Prof. Sampreet Goraya Spring 2022

Dynamic Macroeconomic Analysis (MSc level)

Teaching Assistant for Ass. Prof. Kelly Ragan Spring 2021

Macroeconomics I (PhD level)

Teaching Assistant for Prof. Lars Ljungqvist Spring 2021

Skills

Software: Julia, Matlab, R, Stata, MS Office, LATEX

Languages: German (native), English (fluent), Swedish (intermediate), French (intermediate)

#### **PUBLICATIONS**

HÄNSEL (2024): "Solving the Diamond-Mortensen-Pissarides model: A hybrid perturbation approach", Economics Letters, 236, 111621. DOI: https://doi.org/10.1016/j.econlet.2024.111621

#### Working Papers

### Idiosyncratic Risk, Government Debt and Inflation [Job Market Paper]

<u>Abstract:</u> How does public debt matter for price stability? If it is useful for the private sector to insure idiosyncratic risk, even transitory government debt expansions can exert upward pressure on interest rates and create inflation. As I demonstrate using an analytically tractable model, this holds in the presence of an active Taylor rule and does not require the absence of future fiscal consolidation. Further analysis using a quantitative 2-asset HANK model reveals the magnitude of the mechanism to crucially depend on the structure of the asset market: under common assumptions, the interest rate effects of public debt are either overly strong or overly weak. After disciplining this aspect based on evidence regarding its long-term relationship with treasury returns, my framework indicates relevant short-run effects of public debt on inflation under active monetary policy: In particular, in the HANK model the mechanism can account for US inflation remaining elevated in 2023 and afterwards.

## HANK faces Unemployment

(with Agostino Consolo, ECB) [ECB Working Paper 2953]

<u>Abstract</u>: Since the advent of Heterogeneous Agent New Keynesian (HANK) models, countercyclical unemployment risk has been deemed an important amplification mechanism for business cycles shocks. Yet, the aggregate effects of such "unemployment fears" are hard to pin down: We thus revisit this issue in the context of a rich two-asset HANK model, proposing new ways to isolate their general equilibrium effects and tackle the long-standing challenge of modelling wage bargaining in this class of model. While unemployment fears can exert noticeable aggregate effects, we find their magnitude to depend importantly on the distribution of firm profits. Households' ability to borrow stabilizes the economy. Our framework has also implications for policy: In the aftermath of an adverse energy price shock, fiscal policy can help reduce the hysteresis effects on unemployment and most households gain if the central bank accommodates an employment recovery at the cost of higher inflation.

#### Solving Bewley Models with Bilateral Wage Bargaining [available upon request]

<u>Abstract:</u> Search-and-Matching models with incomplete markets à la Bewley appear challenging to solve, as standard wage bargaining protocols imply workers' wages to depend on their wealth. In fact, I demonstrate that they can be analyzed quickly by building on the Endogenous Grid Method (EGM), particularly if one uses a novel *Match-Integrated Endogenous Grid Method* (MIEGM): Its key feature is that it obtains worker- and firm value functions jointly instead of solving an outer functional fixed point problem. I show that this fast algorithm can be applied to a variety of models, including set-ups with endogenous separations or intensive margin labor supply. Additionally, the joint solution procedure facilitates studying aggregate shocks and transition dynamics using recent Sequence Space methods.

# Monetary Policy Transmission, Central Bank Digital Currency, and Bank Market Power (with Hanfeng Chen and Hiep Nguyen, both Uppsala University) [Draft]

<u>Abstract</u>: Interest rates on new central bank digital currencies (CBDCs) can be expected to enter the monetary policy toolkit soon. Using an extended Sidrauski (1967) model featuring an oligopsonistic banking sector, we study the complex transmission of interest rates on CBDC, which generally involve both direct and indirect effects. This is because a CBDC rate cut does not only affect the rate on the CBDC itself, but also induces the non-competitive deposit providers to adjust their spreads, as the new substitute for their products becomes relatively less attractive. A calibration exercise suggests that the indirect effects depend strongly on the sources of deposit market power: If driven by high concentration, they substantially amplify the aggregate effects of the CBDC policy rate, both in response to transitory shocks as well as regarding its long-run welfare effects. This contrasts them with policies directed at the banking sector which are weakened by a less competitive deposit

#### Presentations

#### 2024 (including scheduled)

- European Central Bank, DG Economics Seminar
- 17th RGS Doctoral Conference in Economics
- 3rd Riksbank PhD Workshop in Money and Finance
- University of Mannheim, Doctoral Colloquium
- SSE PhD Workshop
- Midwest Macroeconomics Meeting
- ENTER Jamboree, Université Libre de Bruxelles
- North American Summer Meeting of the Econometric Society
- XXVII Vigo Workshop on Dynamic Macroeconomics
- EEA-ESEM
- VfS Annual Conference
- European Central Bank, Research Task Force on Heterogeneity in Macroeconomics and Finance Conference

#### 2023

- NYU PhD Student Macro Lunch Seminar
- SSE PhD Workshop
- Stockholm-Uppsala Doctoral Student Workshop in Economics (SUDSWEC)
- 12th National PhD Workshop in Finance, Swedish House of Finance (SHoF)
- Fed St. Louis-JEDC-SCG-SNB-Conference on Heterogeneity and Macroeconomics of Labor Markets (Poster session)
- Macro PhD Seminar, Uppsala University
- Brownbag seminar, Stockholm School of Economics

#### 2022

- Brownbag seminar, Stockholm School of Economics
- SSE PhD Workshop
- IIES Macro Group, Stockholm University
- European Central Bank, Workshop on Heterogeneity in Macroeconomics
- European Central Bank, Supply Side, Labor and Surveillance (SSL) division

#### Additional Coursework / Training

Deep Learning for Solving and Estimating Dynamic Models	Lausanne, Switzerland
Econometric Society Summer School in Dynamic Structural Econometrics	August 2023
Heterogeneous-Agent Macro in the Sequence Space	Mannheim, Germany
EABCN Training School, taught by Ludwig Straub	June 2022
Modern Macro, Money, and International Finance	online
EABCN Training School, taught by Markus Brunnermeier	June 2021
Numerical Methods	online
SciencesPo PhD course, taught by Florian Oswald	Spring 2021
SCHOLARSHIPS $\ell_z$ $\Delta_{WARDS}$	

#### SCHOLARSHIPS & AWARDS

# Hedelius Scholarship, Jan Wallanders och Tom Hedelius Stiftelse

SEK 500,000 grant for PhD studies abroad

2021

#### Koopmans Scholarship, CentER Graduate School

Monthly scholarship for Research Master students at Tilburg University

Aug. 2017 - July 2019

#### Dean's Award for Outstanding Academic Achievements

Best 5% of Economics B.Sc. cohort at the University of Cologne

2015