

Vesa-Matti Heikkuri

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citizenship: Finnish

Employment

Tampere University

Postdoctoral Research Fellow at the Finnish Centre of Excellence in Tax Systems Research

Education

Brown University

Ph.D., Economics, 2023

M.A., Economics, 2018

University of Helsinki

M.Sc., Mathematics, 2022

University of Groningen

Visiting student (Erasmus), Spring 2015

University of Oulu

M.Sc., Economics, 2016

B.Sc., Economics, 2014

References

Professor David Weil

James and Merryl Tisch Professor of Economics

Department of Economics, Brown University

(401) 863-1754

david_weil@brown.edu

Professor Oded Galor

Herbert Goldberger Professor of Economics

Department of Economics, Brown University

(401) 863-2117

oded_galor@brown.edu

Professor John Friedman

PDBF Distinguished Professor of Economics

Department of Economics, Brown University

(401) 863-9590

john.friedman@brown.edu

Research Experience

Research Assistant, Brown University

Professor David Weil, Summers 2018 and 2019

Research Assistant, University of Oulu

Professor Ilmo Mäenpää, Spring 2016

Professor Rauli Svento, Fall 2015

Professor Mikko Puhakka, Summer 2014

Teaching Experience

Teaching Assistant, Brown University

Intermediate Microeconomics (Mathematical), Professor Rajiv Vohra, Spring 2023

Mathematics for Economists (graduate course), Lecturer Alex Poterack, Fall 2018 and Fall 2022

Economic Growth, Professor David Weil, Fall 2021

Essential Mathematics for Economics, Lecturer Alex Poterack, Fall 2019, Spring 2020, and Summer 2021

Economania (Summer course for high school students), Summer 2019

Economic Development, Professor Louis Putterman, Spring 2019

Teaching Assistant, University of Oulu

Economic Theory II (macro), Professor Mikko Puhakka, Fall 2014 and Fall 2015

Invited Seminars and Conference Presentations

2023: PAA Annual Meeting[†], ECINEQ Meeting

2022: PAA Annual Meeting

2021: Stone Center on Socio-Economic Inequality at City University of New York[†], Max Planck Institute for Demographic Research[†]

Professional Activities

Referee

Journal of Economic Growth

Awards and Fellowships

Brown University Merit Dissertation Fellowship

Spring 2022

James M. and Cathleen D. Stone Wealth and Income Inequality Project Fellowship

Spring 2021

Stephen R. Ehrlich Fellowship Fund

2017-2018

Languages and Skills

Finnish (native), English (fluent)

Matlab, R, Stata, Python, L^AT_EX

Working Papers

Job Market Paper 1: *Population Aging, Cohort Replacement, and the Evolution of Income Inequality in the United States* [Latest version]

with Matthias Schief

We study how demographic change affects the evolution of household income inequality in the United States, both historically and prospectively. We emphasize the distinct roles of population aging and cohort replacement and develop a methodology to study their joint compositional effect on income inequality. In the process, we also develop a novel methodology to aggregate subgroup Gini coefficients into a population-level Gini coefficient based on the principle of maximum entropy. We find that rising income inequality is embodied in birth cohorts born since the mid-20th century and that most of the increase in inequality over the past two decades can be accounted for by demographic change. Furthermore, we predict that demographic

change over the next two decades will lead to further increase of the Gini coefficient by one to six percentage points.

Job Market Paper 2: *Subgroup Decomposition of the Gini Coefficient: A New Solution to an Old Problem*

[Latest version]

with Matthias Schief

We study inequality decomposition by population subgroups. We define properties of a satisfactory decomposition and ask what these properties imply for the decomposition of familiar inequality indices. We find that the Gini coefficient, the generalized entropy indices, and the Foster-Shneyerov indices all admit satisfactory decomposition formulas derived from a common set of axioms. While our axiomatic approach recovers the known decomposition formulas for the generalized entropy and the Foster-Shneyerov indices, it leads us to a novel decomposition formula for the Gini coefficient. The decomposition of the Gini coefficient is easy to compute, and it has both a geometric and an arithmetic intuition.

Work in Progress

On the Determinacy of Equilibrium in a Continuous-time Overlapping Generations Model

Institutional Changes and the Allocation of Talent: Macroeconomic Effects of a School Reform in Finland

with Cosimo Petracchi and Matthias Schief

Tight Bounds for the Gini Coefficient of Composite Populations

with Matthias Schief

Optimal Transport and the Measurement of Inequality

with Matthias Schief

[†]Presentation by co-author