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Department of Economics
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Brown University

Placement Director: Toru Kitagawa
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Primary Fields

Inequality, Demographic Economics, Macroeconomics

Secondary Fields

Economic Growth, Mathematical Economics

Education

Brown University

Ph.D., Economics, expected completion May 2023

M.A., Economics, 2018

University of Helsinki

M.Sc., Mathematics, 2022

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**

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**

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*

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 sub-population 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 demo-

graphic 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*
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 can be easily computed, has both a geometric and an arithmetic intuition, and behaves better compared to existing decomposition formulas for the Gini coefficient.

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

[†]Presentation by co-author