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## **BROWN UNIVERSITY**

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### **Office Contact Information**

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### **Home Contact Information**

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### **Personal Information:**

Citizenship: Japan

### **Pre-Doctoral Studies:**

Bachelor's Degree in Economics, Hitotsubashi University, Japan, 2013  
Master's in Economics, Hitotsubashi University, Japan, 2015

### **Graduate Studies:**

Brown University, Providence, RI, USA 2016 to present

Ph.D. Candidate in Economics

Thesis Title: Essays in the Biogeographical Origins of Economic Development

Expected Completion Date: May 2023

### **References:**

Professor Oded Galor  
Department of Economics, Brown University  
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Professor Stelios Michalopoulos  
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Professor Louis Putterman  
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### **Research and Teaching Fields:**

Primary fields: Economic Growth, Macroeconomics

Secondary fields: Development, Political Economy, Economic History

### **Research Experience and Other Employment:**

Summer 2018      Brown University, Research Assistant, Professor Oded Galor

### **Professional Activities**

Oct 2020      Global Wellbeing Initiative, Discussant

Nov 2021      NEUDC, Paper Discussant

### **Conferences and Seminar Presentations**

Internal Growth Seminar at Brown University (multiple times) 2018-2022  
NEUDC at Boston University 2021  
Applied Young Economist Webinar at Monash University 2022  
Eurasia Business and Economics Society Conference, Oct 2022  
SEA Annual Meeting, Nov 2022 (in schedule)

### **Honors, Scholarships, and Fellowships:**

2016-2019	Japan Student Services Organization Scholarship
2019	Third Year Paper Distinction Award, Brown University
Spring 2021	Merit Dissertation Fellowship, Brown University

### **Research Papers:**

[“Overkill, Extinction and the Neolithic Revolution”](#) (Job Market Paper)

*Abstract:* This research explores the biogeographical origins of the emergence and diffusion of agriculture. I develop a model showing that large-herbivore extinction decreased hunting gains and permitted an earlier agricultural transition. It also shows that mammals’ biological vulnerability increased the extinction risk and promoted an earlier transition. To test the predictions, I construct a novel measure of the loss of hunting resources resulting from mammal extinction. Using multiple datasets and exploiting the biological vulnerability as an instrument for the extinction, the research establishes a positive impact of the extinction on the timing and the likelihood of the agricultural transition. It also shows a persistent effect of the prehistoric extinction on socioeconomic development that lasted until the preindustrial period.

[“Horses and the State”](#)

*Abstract:* This research explores the effect of horses on the state and historical battles. I exploit multiple exogenous sources of variation in the adoption of horse riding on the battlefield: (i) the exogenous regional variation in the spread of horse-riding technology, (ii) the exogenous variation in the availability of native horses, and (iii) the exogenous change in horse availability in the Americas during the course of the Columbian Exchange. Using these exogenous variations and multiple datasets spanning several millennia, the research provides repeated evidence of the significant impact of horses on state formation and historical battles. Rich historical accounts support the critical role of horses in state building through their influence as a military power.

[“Biogeographical Origins of Risk Preference”](#)

*Abstract:* This paper explores the biogeographical origins of differences in risk preference across regions and individuals. The theory shows that individuals whose ancestors lived in regions that had abundant hunting resources tend to be more risk averse. Such regions attracted even risk-averse individuals and thus the population became more risk averse. To test the hypothesis, I construct a novel measure of megaherbivore biomass. I find that this measure is a strong predictor of hunting dependency in traditional societies. I show that, consistent with the theory, descendants of inhabitants of regions characterized by larger megaherbivore biomass have higher risk aversion.

### **Work in Progress**

“American Prosperity: The Role of Upper-Tail Human Capital”

*Description:* In this study, I examine the effect of upper-tail human capital on: (i) income, education, and research productivity, and (ii) the values for science. The analysis is conducted within the context of immigrants to America. To address the endogeneity of the location choices of immigrants who have upper-tail human capital, I conduct an estimate based on the “shift-share” instrumental variable methodology. It demonstrates that: (i) both in the short and long run, counties that have more immigrants who have upper-tail human capital tend to have higher income, education, and research productivity, and (ii) individuals who reside in a county that historically have more immigrants who have upper-tail human capital tend to put more importance on science.

“Human Admixture: The Short- and Long-Run Impacts on Economic Development”

*Description:* Admixture is the mixing of different populations. It is regarded as the degree of mixing in terms of cultural aspects. In this study, I explore the short- and long-run effects of human admixture on economic development. In the short run, the admixture can be bad because it reduces social cohesion and leads to mistrust. However, the admixture can be good in the long run because: (i) it increases population diversity, which raises productivity, and (ii) social cohesion improves through the assimilation process. Using the novel data on human admixture, I test this hypothesis. I demonstrate that human admixture is negatively associated with development in the short run while the association is positive in the long run.

### **Teaching Experience**

2013	Introductory Microeconomics @Hitotsubashi University, Teaching Assistant
2014	Introduction to Economics @Hitotsubashi University, Teaching Assistant
2015	Basic Economic Mathematics @Hitotsubashi University, Teaching Assistant
2015	Introductory Microeconomics @Hitotsubashi University, Teaching Assistant
2016	Advanced Macroeconomics @Hitotsubashi University, Teaching Assistant

### **Languages**

English (fluent), Japanese (native)

### **Software**

Python, ArcGIS, STATA, Matlab, LaTeX