Haku Bo

332M Ruttan Hall. 1994 Buford Ave. Saint Paul, MN 55108-6038
Mobile: 763-280-6430.   E-mail: boxxx032@umn.edu

Education

2017-Present   **PhD Student**: University of Minnesota, Twin Cities, USA
Department of Applied Economics, Supervisor: Stephen Polasky,
Regents Professor; Justin Johnson, Assistant Professor

2012-2016   **Bachelor** of Economics: Chuo University, Tokyo, Japan
Faculty of Economics, Supervisor: Yabuta Masahiro, Professor

Work and Research Experience

Since 2020   **Research Assistant**, Applied Economics Laboratory
Supervisor: Stephen Polasky, Regents Professor; Justin Johnson,
Assistant Professor
Description:
- Review papers that value ecosystem services by using Hedonic analysis
- Demonstrate meta-analysis on the Hedonic study
- Evaluate inclusive welfare indexes and methods on sustainable accounting analysis
- Analysis of finance policy and strategies on global biodiversity conservation
- Policy analyses related to natural resources such as energy, climate change, and air quality

2020-2021   **Research Assistant**, Department of Applied Economics, University of Minnesota
Supervisor: Metin Cakir, Associate Professor
Description:
- Data collection and management (cleaning) for USDA projects, using firm-level data created by the US Bureau of Labor
- Analyses of employment databases (CBP, QCEW, NETS) to study the role of small businesses in creating jobs within the food sector
- Conducting econometric and statistical analyses using methods such as linear regression
- Preparing and delivering oral presentations

2019-2020   **Research Assistant**, Natural Capital Project, IPBES
Supervisor: Becky Chaplin-Kramer, Professor, Stanford University
Description:
- Review papers of natural and social values for meta-analysis

Since 2018	**Research Assistant**, Institute for Social Research and Data Innovation, University of Minnesota Supervisor: Matthew Sobek, Director of Data Integration, Research Scientist Description: • Data cleaning and harmonization of Censuses and Household Surveys around the world using SPSS and Stata • Statistical analysis and regressions on national census and United Nations Surveys (UNICEF-MICS) using R and Stata • Constructing indicators for United Nations Surveys
2014-2016	**Event and Program Staff**, International Center of Chuo University, Japan Description: • Planning international events for university • Visitor and exchange student services • Leadership in the scholarship program • Multiple language translation
2014	**Research Assistant**, the Noto Regional GIAHS Executive Committee, Ishikawa Prefectural Government, Japan Supervisor: Stephen Hesse Description: • Evaluate the local economic establishments to adopt a land management system that is recognized as the Globally Important Agricultural Heritage Systems (GIAHS) at the Noto Peninsula • Conduct interviews with local business owners and organizations, translate the results into data • Discuss economic policy with local government about developing the "Satoyama and Satoumi" system into policy making
2012-2015	**Special Staff**, Japan Post Co., Ltd. Description: • Arranging postal parcels and investigating addresses of households, machine operation

Working papers

Bo, H.; Dampha, N.K.; Long, Y.; Mamun, S.; Strombom, L. 2022. *How do we value housing? A meta-analysis on Hedonic models.* In prep.

Dampha, N.K.; **Bo, H**.; Kula, L.; Long, Y.; Mamun, S.; Strombom, L.; Thakrar, S. 2022. *Metrics of Sustainability/Wellbeing: Balancing the needs of present and future generations.* In prep.

Polasky, S.; Johnson, J.A.; **Bo, H.;** Dampha, N.K.; Kula, L.; Long, Y.; Mamun, S.; Leonardo Maldonado, L.; Strombom, L.; Thakrar, S. 2021. *The Economic Case for Conserving Nature and the Big Lift for Transformative Change*. In prep.

Research

Bo, **H.** 2019. *Impact of Urban Development on Ecosystem Services --- a case study from the Twin Cities Metropolitan Area.* Second-year Ph.D. preliminary paper, University of Minnesota

Bo, **H**. 2016. *Input-output and Ecological Footprint Analysis for the Sustainable Regional Development: a case study of Inner Mongolia in China*. Graduation thesis of faculty of economics, Chuo University

Bo, **H.; Yabuta, M.** 2015. *A Study of Depopulation Area and Sustainable Tourism in Japan.* Chuo University

Bo, **H**. 2014. *From Traditional Agriculture to Sustainable Agriculture in Sub-Saharan Africa.* Study in Papers of Faculty-Linkage Program (FLP), Chuo University

Grants

Jul-Sep 2015   **Exchange and Research Student**, Japan Global Initiative, Washington DC, USA
"DC international Economy & Development Policy Programme"
- **Title of presentation**: *Inner Mongolia, An Energy wasteland*
- **Title of discussion**: *Thinking about Asia's Dynamics in the 21 Century, Focusing on Transitions of Geopolitical Powers as a Global Leader*

Aug 2013   **Student Representative**, Global Seminar Japan 29th Shonan Session, United Nations University, Tokyo, Japan
- **Title of presentation**: *A Comparison of Nuclear Policy between Japan and Germany*
- **Title of discussion**: *Energy Alternatives and Policies for the Newly Emergent States*

Awards & Honors

2015-2016   Mitsubishi Corporation International Student Scholarship, Mitsubishi Corporation **(¥1,200,000/$9,441)**

2014   Faculty of Economics Global Human Resources Development Scholarship, Chuo University **(¥200,000/$1,573)**

2014   Suzuki Toshifumi Scholarship, 7-Eleven, Inc **(¥300,000/$2,361)**

2011-2015   Ministry of Education, Culture, Sports, Science and Technology (MEXT) Honors Scholarship for Privately Financed International Students, Japanese Government **(¥2,304,000/$18,126)**

Software skills

Advanced	**Microsoft office, R, STATA, Matlab, ArcGIS, QGIS, Python**
Intermediate	Wolfram Mathematica, Gretl, SPSS, Adobe

Statistical skills

t-test, F test, p values
Linear and non-linear regressions
Fixed effect and random effect regressions
Sensitivity analysis
Bootstrapping
General equilibrium modeling
Dynamic optimization modeling
Descriptive statistics
Machine learning

GIS skills

Proficient with both vector and raster
Data extraction and evaluation
Data visualization
Masking
Clipping
Dissolving
Zonal statistics
Calculator Raster staking
Buffer construction
Resampling and normalization
Classification
Modeling

Languages

Fluent	Mongolian, Mandarin, Japanese, English
Basic	Hungarian, Spanish

Service

Since 2021	**Graduate Student Committee**, College of Food, Agricultural and Natural Resource Sciences, University of Minnesota
Since 2021	**Graduate Student Representative**, Academic Calendar Task Force, University of Minnesota
Since 2019	**Department Representative**, The Council of Graduate Students, University of Minnesota
Since 2016	**Member**, Food Recovery Network, Minneapolis
2012-2016	**Volunteer**, Regional River cleaning in Hino City, Japan
Summer 2012	**Volunteer**, The Great East Japan Earthquake