Shunkei Kakimoto

Department of Applied Economics, University of Minnesota
1994 Buford Avenue, Saint Paul, MN 55108
kakim002@umn.edu

RESEARCH INTERESTS

Primary Fields
Environmental and Natural Resource Economics, Applied Econometrics

Secondary Fields
Agricultural Economics, Production Economics

ACADEMIC BACKGROUND

Ph.D., Applied Economics — Present
University of Minnesota

M.S., Agricultural Economics — 2022
University of Nebraska-Lincoln

B.S., Agricultural Economics — 2019
Hokkaido University, Japan

JOURNAL ARTICLES (Peer-Reviewed)

Mieno, T., Foster, T., **Kakimoto, S.**, & Brozović, N. (2024). Aquifer depletion exacerbates agricultural drought losses in the US High Plains. Nature Water, 1-11.

Kakimoto, S.., Mieno, T., Tanaka, T. S., & Bullock, D. S. (2022). Causal forest approach for site-specific input management via on-farm precision experimentation. Computers and Electronics in Agriculture, 199, 107164.

WORK IN PROGRESS

Kakimoto, S. "Measurement Error Issues in Gridded Weather Data"

Melkani, A., Mieno, T., Hrozencik, R.A., **Kakimoto, S.**, & Brozović, N. "A Hedonic Price Analysis Approach for Valuation of Groundwater in U.S. Agriculture"

TEACHING EXPERIENCE

Teaching Assistant, University of Minnesota — Fall 2023 - Present
APEC 8211 (Econometric Analysis I, Ph.D.)
APEC 8212 (Econometric Analysis II, Ph.D.)
APEC 8003 (Applied Microeconomic Analysis of Game Theory and Information, Ph.D.)
APEC 8004 (Applied Microeconomic Analysis of Social Choice and Welfare, Ph.D.)

Teaching Assistant, University of Nebraska-Lincoln — Fall 2020, Spring 2022
AECN 896-003 (Applied Econometrics, M.S.)

WORK EXPERIENCE

Graduate Research Assistant — 2021 - 2022
Daugherty Water for Food Global Institute at University of Nebraska

- Studied the heterogeneous impact of groundwater allocation limits (quota) on groundwater use in Nebraska
- Studied the impact of drought and policies on agricultural land values

Graduate Research Assistant — 2019 - 2021
University of Nebraska-Lincoln

- Studied the application of a causal machine learning method to site-specific input management
- Mentored undergraduate student through thesis process

ACADEMIC PRESENTATION

"Machine Learning Methods for Site-specific Input Management"

- Farmer-centric On-Farm Experimentation (OFE) 2021, October 2021

SEMINAR PRESENTATION

"Introduction to Making Presentation Slides with xaringan"

- Applied Economics Student Workshop Series at the University of Minnesota, April 2024

AWARDS AND FELLOWSHIPS

Summer Scholarship, University of Minnesota (Summer 2023)
Graduate Fellowship, University of Minnesota (Spring 2023)
Mary A. and Robert B. Litterman Fellowship, University of Minnesota (Fall 2022)
Tomek Outstanding M.S. Student, University of Nebraska-Lincoln (Spring 2022)

ADDITIONAL SKILLS

- Programming skills: Proficient in R, spatial data processing with R, R markdown, LaTeX; Working knowledge of Python and STATA
- Languages: Japanese (native), English (fluent)