

YUJI SAIKAI

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UNIVERSITY OF WISCONSIN-MADISON

Office Contact Information:

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Undergraduate Studies:

Bachelor of AgriCommerce, Massey University, New Zealand, 2011–2013
Bachelor of Economics (Honours), the Australian National University, Australia, 2014

Graduate Studies:

Complex Systems Summer School, Santa Fe Institute, 2017
Ph.D. in Agricultural & Applied Economics with minor in Computer Science, University of Wisconsin–Madison, 2020 (expected)

References:

Paul Mitchell
(in Agricultural Economics)
418 Taylor Hall
(608) 320-1162, pdmitchell@wisc.edu

Vivak Patel
(in Statistics)
1241 Medical Sciences Center
(608) 262-2539, vivak.patel@wisc.edu

Shawn Conley
(in Agronomy)
355 Moore Hall
(608) 262-7975, spconley@wisc.edu

Sheldon Du
(in Agricultural Economics)
331 Taylor Hall
(608) 262-0699, xdu23@wisc.edu

Research Fields:

Computational modeling

- Machine learning
- Bayesian optimization
- Agent-based modeling

Applications

- Agricultural systems
- Precision agriculture

Teaching Experience:

Lecturer in AAE722 Machine learning in applied economic analysis, Summer 2019
Teaching assistant in AAE706 Applied risk analysis, Spring 2019

Research Experience:

Research assistant, 2015–Present

Presentations:

Agricultural & Applied Economics Association (AAEA) Annual Meeting, 2017–2019
NCERA 180 Precision Agriculture Technologies for Food, Fiber, and Energy Production, 2019
ASA-CSSA-SSSA International Annual Meeting, 2019

Research Papers:

“Machine learning for optimizing complex site-specific management”
(in progress)

“Adaptive experimental design using Bayesian optimization to improve the cost efficiency of small plot field trials”
(with Vivak Patel, Lucía Gutiérrez, Brian Luck, Jed Colquhoun, Shawn Conley, and Paul Mitchell)

“An agent-based model of insect resistance management and mitigation for Bt maize: A social science perspective”
(with Paul Mitchell and Terrance Hurley)

“A bandit algorithm for efficient on-farm research”
(with Paul Mitchell)

“An agent-based model for promoting modest technologies”

“An impure public good model of local food systems: Aggregative games of four locals”