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UNIVERSITY OF WISCONSIN–MADISON

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Undergraduate Studies:

Bachelor of AgriCommerce, Massey University, New Zealand, 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
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Sheldon Du
(in Agricultural Economics)
331 Taylor Hall
(608) 262-0699, xdu23@wisc.edu

Jun Zhu
(in Statistics)
1220A Medical Sciences Center
(608) 262-3720, jzhu@stat.wisc.edu

Thomas Rutherford
(in Computational Economics)
323 Taylor Hall
(608) 316-4362, rutherford@aae.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*"
(with Vivak Patel and Paul Mitchell)

"*Adaptive experimental design using Bayesian optimization to improve the cost efficiency of small plot field trials*"
(with Vivak Patel, 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*"