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UNIVERSITY OF WISCONSIN–MADISON

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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
418 Taylor Hall
(608) 320-1162, pdmitchell@wisc.edu

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

Thomas Rutherford
323 Taylor Hall
(608) 316-4362, rutherford@aae.wisc.edu

Sheldon Du
331 Taylor Hall
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Research Fields:
Computational modeling
- Machine learning
- Bayesian optimization
- Agent-based modeling

Applications
- Agricultural systems
- Precision agriculture

Teaching Experience:
Teaching assistant in AAE706 Applied risk analysis (Instructor: Jean-Paul Chavas), Spring 2019

Research Experience:
Research assistant, 2015–Present

Conference presentations:
Agricultural & Applied Economics Association Annual Meeting, 2017–2019
ASA-CSSA-SSSA International Annual Meeting, 2019

Research Papers:
"*Efficient learning of site-specific management in precision agriculture*" (in progress)
(with Vivak Patel, Lucía Gutiérrez, Brian Luck, Jed Colquhoun, Shawn Conley, and Paul Mitchell)

"*Adaptive experimental design using Bayesian optimization to improve the cost efficiency of small plot field trials*" (in progress)
(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*"