UNIVERSITY OF WISCONSIN-MADISON

Office Contact Information:

427 Lorch St. #317, Madison, WI, 53706 (608) 571-9556

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 Vivak Patel (in Statistics)
418 Taylor Hall 1241 Medical Sciences Center
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Thomas Rutherford Sheldon Du
4243B Wisconsin Institute of Discovery
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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 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:

"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"