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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  
418 Taylor Hall  
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Vivak Patel (in Statistics)  
1241 Medical Sciences Center  
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Thomas Rutherford  
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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”*