

# Tor N. Tolhurst

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Citizenship: Canada

## Education

**University of California, Davis** Davis, CA  
*Doctor of Philosophy (Agricultural and Resource Economics)* October 2015 to June 2020  
Committee: Drs. Rachael Goodhue (chair), Julian Alston, and Aaron Smith.

**University of Guelph** Guelph, ON  
*Master's of Science (Food, Agricultural and Resource Economics)* September 2011 to April 2013

**The University of British Columbia** Vancouver, BC  
*Bachelor of Commerce (Finance)* September 2006 to May 2011

## Employment

**Purdue University** West Lafayette, IN  
*Assistant Professor, Department of Agricultural Economics* August 2020 to Present

## Awards and Distinctions

Gordon A. King Best Dissertation Award, U.C. Davis, Agricultural and Resource Economics *Spring 2021*  
Western Agricultural Economics Association Graduate Student Paper Competition, Winner *Summer 2019*  
Doctoral Fellowship, Social Sciences and Human Resources Council of Canada *Fall 2018*  
Outstanding Article Honourable Mention, Canadian Journal of Agricultural Economics *Spring 2018*  
Taste America Scholarship, James Beard Foundation *Fall 2016*  
UC Davis Provost's Fellowship in the Arts, Humanities and Social Sciences *Fall 2015*  
Outstanding Master's Thesis Award, Canadian Agricultural Economics Society *Summer 2014*

## Research

### Publications in Academic Journals

**Balancing bees and pest management: Projected costs of proposed bee-protective neonicotinoid regulation in California.** Goodhue, R.E., and K. Mace, J. Rudder, J. Steggall, T. Tolhurst, D. Tregueagle, and H. Wei; *Journal of Economic Entomology*. In press.

**On the treatment of heteroscedasticity in crop yield data.** Ker, A.P. and T.N. Tolhurst; *American Journal of Agricultural Economics*. 101, 4 (2019): 1247–1261.

**Job security and risk taking: Theory and evidence from professional football.** Slade, P.J. and T.N. Tolhurst; *Southern Economic Journal*: 85, 3 (2019): 899–918.

**Canadian business risk management programs: Private firms, crown corporations, and public institutions.** Ker, A.P., B. Barnett, D. Jacques, T.N. Tolhurst; *Canadian Journal of Agricultural Economics*. 65, 4 (2017): 591–612.

**The economic impact of a foot-and-mouth disease outbreak for Ontario's beef sector.** Cairns, A., T.N. Tolhurst, S. Duff, A.P. Ker, K. Poon; *Canadian Journal of Agricultural Economics*. 65, 1 (2017): 159–183.

**Bayesian estimation of possibly similar densities: Implications for rating crop insurance contracts.** Ker, A.P., T.N. Tolhurst, and Y. Liu; *American Journal of Agricultural Economics*. 98, 2 (2016): 360–382.

**On technological change in crop yields.** Tolhurst, T.N. and A.P. Ker; *American Journal of Agricultural Economics*. 97, 1 (2015): 137–158.

**Increasing crop diversity improves yield stability and resilience to weather variations.** Gaudin, A.C.M., T.N. Tolhurst, A.P. Ker, K. Janovicek, R.C. Martin, and W. Deen; *PLoS ONE*. 10, 2 (2015): e0113261.

## Working Papers

**Bubbles in the field.** Tolhurst, T.N.; Under review.

**Are farmers good neighbors? Self-regulation with competition.** Tolhurst, T.N. and R.E. Goodhue; Working paper.

**Measuring cold temperature stress and sowing date uncertainty to estimate climate impacts on agriculture.** Tolhurst, T.N.; Working paper.

**Innovation and climate induced yield volatility in agriculture.** Tolhurst, T.N. and A.P. Ker; Working paper.

**Distributional synthetic control: The effect of genetic engineering on crop yields.** Tolhurst, T.N. and M. Gammans; In progress.

**Environmental justice and self-regulation: Evidence from pesticide applications in California.** Tolhurst, T.N. and R.E. Goodhue; In progress.

**Impact of natural disasters on risky health behavior: Evidence from a quasi-experimental study in the US.** †Kundu, D., B. Katare, and T.N. Tolhurst; In progress. († denotes graduate student collaborator)

## Teaching

### Courses Taught

Year	Number	Title	Level	Credits	Enrollment			
					UG	MS	PhD	Total
2021F	AGEC424	Financial Management of Agri. Business	UG	4	59			59
2020F	AGEC640	Agricultural Policy	PhD	3		2	8	10

Note: AGE640 was cancelled in 2021F due to low enrollment in the PhD program in 2020.

### Student Evaluation

Year	Number	Title	Level	Credits	12 Questions	
					Mean	SD
2021F	AGEC424	Financial Management of Agri. Business	UG	4		
2020F	AGEC640	Agricultural Policy	PhD	3	4.65/5	0.17

Note: AGE640 was cancelled in 2021F due to low enrollment in the PhD program in 2020.

### Involvement in Graduate Program

Mario Ortez, PhD Student, Agricultural Economics (Chair: Widmar)

## Professional Activities

### Invited Speaker

“Bubbles in the Field,” Seminar, Agricultural and Natural Resource Economics, University of California, Berkeley, Oct. 7, 2021.

“Are Farmers Good Neighbors? Self-Regulation with Competition,” Seminar, Agricultural and Resource Economics, North Carolina State University, Apr. 20, 2021.

“Bubbles in the Field,” Seminar, Agricultural and Resource Economics, University of Saskatchewan, Apr. 4, 2021.

“The Intersection of Agricultural and Environmental Economics,” Guest lecture to senior-level Environmental Economics class, San Jose State University, Apr. 3, 2018.

### Academic Conferences

Agricultural and Applied Economics Association, August. 1–3, 2021, Austin, TX (two papers).

North American Meetings of the Econometric Society, June 27–30, 2019, Seattle, WA (paper).

Western Agricultural Economics Association, June 30–July 2, 2019, Coeur d’Alene, ID (paper).

Agricultural and Applied Economics Association, July 21–23, 2019, Atlanta, GA (paper).

Agricultural and Applied Economics Association, Aug. 5–7, 2018, Washington, DC (poster).

Australasian Agricultural and Resource Economics Society, Feb. 6–9, 2018, Adelaide, Australia (two papers).

Agricultural and Applied Economics Association, July 30–Aug. 1, 2017, Chicago, IL (two papers).

Western Agricultural Economics Association, July 9–11, 2017, Lake Tahoe, NV (paper).

International Network for Economic Research, June 7–9, 2017, Bordeaux, France (paper).

Agricultural and Applied Economics Association, July 31–August 2, 2016, Boston, MA (paper).

Northeast Agricultural and Resource Economics Association and Canadian Agricultural Economics Association 2015 Joint Annual Meeting, June 28–June 30, 2015, Newport, RI (paper).

Canadian Economics Association, May 29–June 1, 2014, Vancouver, BC (paper).

Agricultural and Applied Economics Association, Aug. 4–6, 2013, Washington, DC (paper and poster).

International Agricultural Risk, Finance and Insurance Conference, June 16–18, Vancouver, BC (paper).

Canadian Economics Association, May 30–June 2, 2013, Montreal, PQ (paper).

### Grants

Principal Investigator (co-PIs: Eun Joong Oh, Christian E. Butzke) Purdue Climate Change Research Center Seed Grant, “Bioremediation of Smoke Taint in Wine by Engineered Yeast,” (2022, requested \$75,000).

Principal Investigator (co-PI: Todd H. Kueth) College of Agriculture, Purdue University, AgSEED Grant, “Measuring Speculative Bubbles in Farmland Values,” (2022, requested \$50,000).

Principal Investigator. Social Sciences and Human Resources Council of Canada, Doctoral Fellowship, (2018–2020, \$40,000).

Research Associate (Principal: Alan P. Ker). Ontario Ministry of Agricultural, Food and Rural Affairs, “Thresholds, Climate Change, and Ontario Crop Yields,” (2015–17, \$120,000).

Research Associate (Principal: Alan P. Ker). Ontario Ministry of Agricultural, Food and Rural Affairs, "Ontario's Agri-Food Sector under Import Pressures," (2015–18, \$177,000).

Research Associate (Principal: Alan P. Ker). Ontario Ministry of Agricultural, Food and Rural Affairs, "Modelling Ontario's Regulated Marketing Sectors," (2014–16, \$178,000).

## Referee

*American Journal of Agricultural Economics, Journal of Modern Applied Statistical Methods, Journal of Agricultural and Resource Economics, Canadian Journal of Agricultural Economics, Agricultural Economics, Environment and Development Economics.*

## Outreach

### Presentations

"The Farm Bill: Impact on Decisions." Presentation to the Midwest Agricultural Banking School, West Lafayette, IN, Dec. 1, 2021.

"Are Farmers Good Neighbors? Self-Regulation with Competition." Presentation to the first annual conference of the Office of Pesticide Consultation and Analysis, California Department of Food and Agriculture, Sacramento, CA, June 29, 2021.

"Innovation and Climate Induced Volatility and Food Security in Canada and the U.S.," Presentation to the Canadian Agricultural Economics Society Eighth Annual Canadian Agri-Food Policy Conference, Ottawa, ON, Jan. 24–26, 2018.

"The Economic Impact of a Foot-and-Mouth Disease Outbreak for Ontario's Beef Sector," Presentation to Agriculture and Agri-Food Canada, Ottawa, ON, Jan. 25, 2016.

### Policy Briefs and Reports

"Estimated cost of the withdrawal of the insecticide chlorpyrifos for six major California crops." Wei, H., R.E. Goodhue, K. Mace, J. Rudder, T. Tolhurst, D. Tregeagle, B. Grafton-Cardwell, I. Grettenberger, H. Wilson, R. Van Steenwyk, and J. Steggall; *ARE Update*. 23, 4 (2020): 13–15.

"Economic and pest management evaluation of the withdrawal of chlorpyrifos: Six major California commodities." Goodhue, R., K. Mace, J. Rudder, T. Tolhurst, D. Tregeagle, H. Wei, B. Grafton-Cardwell, I. Grettenberger, H. Wilson, R. Van Steenwyk, and J. Steggall; report for the Department of Pesticide Regulation, December 2019.

"The soaring eagles: California's flagship wines on global secondary markets." Tolhurst, T.N.; *ARE Update*. 22, 4 (2019): 1–4.

"Economic value of the herbicide Dacthal for brassica and allium crops in California." Blecker, S., S. Fennimore, R. Goodhue, K. Mace, J. Steggall, D. Tregeagle, T. Tolhurst, and H. Wei; *ARE Update*. 22, 2 (2018): 5–8.

"An economic and pest management evaluation of the herbicide Dacthal in California agriculture." Blecker, S., S. Fennimore, R. Goodhue, K. Mace, J. Steggall, D. Tregeagle, T. Tolhurst, and H. Wei; report to the California Department of Food and Agriculture, Office of Pesticide Consultation and Analysis, August 2018.

"Potential regulation regarding fumigant application notifications: Economic effects for agriculture in 13 major agricultural counties." DeMars, C., R. Goodhue, T. Tolhurst, and D. Tregeagle; report to the California Department of Food and Agriculture, Office of Pesticide Consultation and Analysis, March 2018.