

# Timothy K.M. Beatty

University of California, Davis  
Agricultural and Resource Economics  
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## Education

Ph.D. Agricultural and Resource Economics, University of California – Berkeley, 2001.

M.Sc. Applied Economics, École des Hautes Études Commerciales, Université de Montréal, 1997.

B.A. Economics, Université Laval, 1995.

## Employment

**University of California, Davis**, Department of Agricultural and Resource Economics, 2014–Present.

Professor and Member Giannini Foundation, 2016–.

Director, Gifford Center for Population Studies, 2017–.

Associate Professor and Member Giannini Foundation, 2014–2016.

**University of Minnesota**, Department of Applied Economics, 2010–2015.

Associate Professor / Professor and Research Director, The Food Industry Center, 2010–2015.

Adjunct Associate Professor, 2015–Present.

**University of York**, Department of Economics and Related Studies, 2007–2010.

Reader (Associate Professor).

**University of British Columbia**, Food and Resource Economics Group, 2002–2007.

Assistant Professor and Canada Research Chair (Tier 2).

## Visiting Positions

**University of Bologna**, Institute for Advanced Studies, May–July, 2015.

Senior Visiting Fellow.

**BI: Norwegian Business School**, Department of Economics, 2012–2013.

Adjunct Professor (Type 2).

**Institute for Fiscal Studies**, Consumption Sector, 2008–2010.

Research Associate.

**Statistics Norway**, Research Department, 2006–2010

Senior Research Fellow (Type 2).

## Research Interests

Agricultural Economics, Economics of Food and Nutrition, Applied Econometrics and Statistics, Measurement.

## Publications

### *Work in Progress*

“Whose Cost of Living? Rethinking the Engel Curve Approach to Measuring CPI Bias,” with Ingvild Almås and Thomas Crossley. **DRAFT AVAILABLE.**

“Haste Makes Waste: Evidence on Speed and Quality Trade-offs in the Workplace,” with Alexandra Hill. **DRAFT AVAILABLE.**

“Weather-induced variability in quality, yield and grower income,” with Sarah Smith. **DRAFT AVAILABLE.**

“Do Food Assistance Programs Affect Retailers? Evidence from the Introduction of Food Stamps,” with Marianne Bitler and Cynthia van der Werf. **DRAFT AVAILABLE.**

### *Journal Articles*

Cuffey, Joel, T.K.M. Beatty, “Effects of competing food desert policies on store format choice among SNAP participants”, Forthcoming *American Journal of Agricultural Economics*.

Beatty, Timothy K.M., G.E. Lade, and J.P. Shimshack. “Hurricanes and gasoline price gouging.” *Journal of the Association of Environmental and Resource Economists*. March 2021: 347–374.

Cuffey, Joel, T.K.M. Beatty, and E. Mykerezi. Work Effort and Work Requirements for Food Assistance among US Adults. *American Journal of Agricultural Economics* March 2021.

Wright, Melissa A., T.K.M. Beatty, and H.H. Chouinard. “Do firms leverage the FDA nutrient label rounding rules to generate favorable nutrition fact panels or health claims?” *Food Policy*. February 2020: 101807.

Beatty, Timothy K.M., M.P. Bitler, X. H. Cheng, and C. Van der Werf. “SNAP and paycheck cycles.” *Southern Economic Journal*. July 2019: 18–48.

Beatty, Timothy KM, J.P. Shimshack, and R.J. Volpe. “Disaster preparedness and disaster response: Evidence from sales of emergency supplies before and after hurricanes.” *Journal of the Association of Environmental and Resource Economists*. July 2019: 633–668.

Lybbert, Travis J., T.K.M. Beatty, T. M. Hurley, and T.J. Richards. “American journal of agricultural economics volume 100: A century of publishing the frontiers of the profession”. *American Journal of Agricultural Economics*. October 2018: 1253–1274.

Katare, Bhagyashree, and T.K.M. Beatty. “Do environmental factors drive obesity? Evidence from international graduate students.” *Health Economics*. October 2018: 1567–1593.

Beatty, Timothy K.M., and B. Katare. “Low-cost approaches to increasing gym attendance.” *Journal of Health Economics*. September 2018: 63–76.

Çakır, Metin, T.K.M. Beatty, M.A. Boland, T.A. Park, S. Snyder, and Y. Wang. “Spatial and temporal variation in the value of the Women, Infants, and Children program’s fruit and vegetable voucher.” *American Journal of Agricultural Economics* March 2018: 691-706..

Harnack, Lisa, J.M. Oakes, B. Elbel, T.Beatty, S. Rydell, and S. French. “Effects of subsidies and prohibitions on nutrition in a food benefit program: a randomized clinical trial.” *JAMA Internal Medicine*, November 2016: 1610-1619.

Cuffey, J., T.K.M. Beatty, and L. Harnack, “The potential impact of Supplemental Nutrition Assistance Program (SNAP) restrictions on expenditures: a systematic review.” *Public Health and Nutrition*. December 2016: 3216–3231

Sexton, Alison L., and T.K.M. Beatty, “Who responds to Air Quality Alerts?” *Environment and Resource Economics*. October 2016: 487–511.

Beatty, T.K.M., and C.J. Tuttle, “Expenditure Response to Increases in In-Kind Transfers: Evidence from the Supplemental Nutrition Assistance Program.” *American Journal of Agricultural Economics*. March 2015: 390–404.

- Winner Best Economics Paper 2015, Food Safety and Nutrition Section, AAEEA–
- Honorable Mention Best AJAE Article Award 2015 –

Sexton, Alison L., and T.K.M. Beatty, “Behavioral Response to Daylight Savings Time.” *Journal of Economic Behavior and Organization*. November 2014: 290-307.

Beatty, T.M.M., L. Blow, T.F. Crossley, and C. O’Dea, “Cash by any other name? Evidence on Labeling From the UK Winter Fuel Payment.” *Journal of Public Economics*. October 2014: 86–96.

Atkinson Award 2017 for best paper published in the *Journal of Public Economics* over the past three years.

Pardey, P., J. Beddow, T.M. Hurley, T.K.M. Beatty, and Vernon Eidman. “A Bounds Analysis of the World Food Problem: Global Agriculture in 2050.” *Australian Journal of Agricultural and Resource Economics*. October 2014:571–589

- Winner Best Paper 2014, Australian Journal of Agricultural and Resource Economics –

Beatty, T.K.M., B.H. Lin and T.A. Smith, “Are Americans eating better? Distributional Changes in U.S. Dietary Quality 1989–2008.’ *American Journal of Agricultural Economics*. April 2014:769–789.

- Winner Best Economics Paper 2014, Food Safety and Nutrition Section, AAEEA–

Beatty, T.K.M., and J.P. Shimshack “Impact of Air Pollution on Children’s Respiratory Health: A Cohort Analysis.” *Journal of Environmental Economics and Management*. January 2014:39–57.

Beatty, T.K.M., L. Blow and T.F. Crossley, “Is there a ‘heat or eat’ trade-off in the UK.” *Journal of the Royal Statistical Society: Series A*. January 2014: 281–294.

Beatty, T.K.M., M.S. Nanney, and C.J. Tuttle, “Time to Eat? The Relationship Between Food Security and Food-Related Time Use.” *Public Health Nutrition*, January 2014: 66–72.

Beatty, T.K.M., and B. Senauer, “The New Normal? U.S. Food Expenditure Patterns and the Changing Structure of Food Retailing.” *American Journal of Agricultural Economics* (Proceedings Issue). January 2013:318–324.

Beatty, T.K.M., and D.E. Sommervoll, “Discrimination in Housing Markets: Evidence from Norway.” *Journal of Housing Economics*. June 2012: 121-130.

Beatty, T.K.M., and I. Crawford, “How Demanding is the Revealed Preference Approach to Demand?” *American Economic Review*. October 2011: 2782-2795.

Beatty, T.K.M., and J.P. Shimshack, "School Buses, Diesel Emissions and Respiratory Health." *Journal of Health Economics*. September 2011: 987-999.

Beatty, T.K.M., and J.P. Shimshack, "Climate Scorecards and Stock Market Returns." *The B.E. Journal of Economic Analysis and Policy (Contributions)*. 10(1): Article 105.

Beatty, T.K.M., "Do the poor pay more for food? Evidence from the United Kingdom." *American Journal of Agricultural Economics*. April 2010: 608-621.

Beatty, T.K.M., E Røed Larsen and D.E. Sommervoll, "Using House Prices to Compute the Price of Housing in the CPI." *Economics Letters*. March 2010: 238-240.

Beatty, T.K.M., E Røed Larsen and D.E. Sommervoll, "Driven to Drink: Sin Taxes Near a Border." *Journal of Health Economics*. December 2009: 1175-1184.

Beatty, T.K.M., "Semiparametric quantile Engel Curves and Expenditure Elasticities: a Penalized Quantile Regression Spline Approach." *Applied Economics*. May 2009: 1533-1542.

Beatty, T.K.M., "Expenditure Dispersion and Dietary Quality: Evidence from Canada." *Health Economics*. September 2008: 1001-1014.

Beatty, T.K.M., P. Berck and J.P. Shimshack, "Curbside Recycling in the Presence of Alternatives." *Economic Inquiry*. October 2007: 739-755.

Rabkin, D.E. and T.K.M. Beatty "Does VQA Certification Matter?" *Canadian Public Policy*. September 2007: 299-314.

Shimshack, J.P., M.B. Ward and T.K.M. Beatty, "Mercury Advisories: Information, Education, and Fish Consumption." *Journal of Environmental Economics and Management*. March 2007: 158-179.

-Winner Best Economics Paper 2007, Food Safety and Nutrition Section, AAEE-

Beatty, T.K.M., "Recovering the Shadow Value of Nutrients." *American Journal of Agricultural Economics*. February 2007: 52-62.

Beatty, T.K.M. and J.T. LaFrance, "U.S. Consumption of Food and Nutrients in the 20th Century." *American Journal of Agricultural Economics* (Proceedings Issue). November 2005: 1159-1166.

Beatty, T.K.M. and E. Røed Larsen, "Using Engel Curves to Estimate Bias in the Canadian CPI as a Cost of Living Index." *Canadian Journal of Economics*. May 2005: 482-499.

LaFrance, J.T., T.K.M. Beatty, R.D. Pope and G.K. Agnew, "Information theoretic measures of the income distribution in food demand." *Journal of Econometrics*. March 2002: 235-257.

### Book Chapters

LaFrance, J.T., T.K.M. Beatty and R.D. Pope, "Building Gorman's Nest," in Frontiers in Applied Economics: Essays in Honor of Stanley R. Johnson, Jean-Paul Chavas and Matt Holt eds., Berkeley Electronic Press, 2006.

### Research Funding

"Haste Makes Waste: Measuring the Economic Costs of Speed and Quality Trade-offs in Fresh Fruit Production," USDA-NIFA with Alexandra Hill (Colorado State University) \$650,000. (2021-2024). co-PI.

“Promoting the Purchase to Plate Tools for Food Demand and Diet Quality Research, ERS Cooperative Agreement USDA-ERS, with Marianne Bitler (UC Davis) \$500,000. (2021-2026). PI.

“Effects of the California Drought on Specialty Crop Markets over Time and across Space,” USDA-NIFA with Metin Cakir (University of Minnesota) \$500,000 (2020-2023). PI.

“The Role of Food Assistance in Rural Areas” ERS Cooperative Agreement USDA-ERS, \$100,000. (2019–2023). PI.

“Federal Food Assistance Programs and the Retail Food Environment: Evaluating Sixty Years of Policy Changes”, USDA-NIFA, with Marianne Bitler \$499,999. (2019-2022). PI.

“Impact of WIC changes on retailer participation in WIC and sales” ERS Cooperative Agreement USDA-ERS \$100,000 (2018-2022). PI.

“Quantitatively evaluating food safety monitoring and enforcement tools” USDA-NIFA with Jay Shimshack (University of Virginia) \$499,968 (2018-2022). PI.

“The Economic Viability and Growth of Organic Farming Spatial and Temporal Variation of Organic Price Premiums at Retail and Their Transmission into Farm Prices,” with Metin Cakir (University of Minnesota) \$500,000 (2018-2022). co-PI.

“Is SNAP Like Cash for Recipients and Stores? Evidence from FoodAPS,” National Bureau of Economic Research, with Marianne Bitler \$40,000. (2016–2018). Co-PI.

“Understanding Compliance and Deterrence in a Food Safety Context,” Giannini Foundation, \$27,000. (2015–2016). PI.

“Using SNAP Administrative Data to Assess the Role of SNAP in Reducing Food Insecurity,” ERS Cooperative Agreement USDA-ERS, \$50,000. (2014–2016). PI.

“The Effect of SNAP benefits on Food Purchases,” ERS Cooperative Agreement USDA-ERS, \$55,000. (2014–2016). PI.

“University of Minnesota Doctoral Fellows Program in the Economics of Global Food Security and Hunger,” with Marc Bellemare, USDA-NIFA, \$262,500. (2013). PI.

“Incentivizing Healthful Food Purchases by SNAP Recipients,” with Melissa Laska, David Just and Brian Wansink. ERS Cooperative Agreement (2013), USDA-ERS, \$100,000. PI.

“The Economic Determinants of Regional Food Price Variation: Cost-of-Living Adjustments and Other Policy Interventions,” with Michael Boland, ERS Cooperative Agreement (2013), USDA-ERS, \$200,000. Co-PI.

“Linking USDA Food Intake Surveys to Analyze Long-Run Dietary Patterns for Research on Dietary Quality,” with Travis Smith. ERS Cooperative Agreement (2013), USDA-ERS, \$26,000. PI.

“Designing a Food Benefit Program to Optimize Diet Quality for Obesity Prevention,” with Lisa Harnack (PI), National Institutes of Health (2013), \$1,769,425.00. Co-I.

“Effects of SNAP on Food Spending: A Meta-Analysis,” with Lisa Harnack. Food Policy Research Center: University of Minnesota (2013), \$39,960.97. PI.

“Food Deserts and SNAP” CFANS: University of Minnesota (2012), \$15,500. PI.

“The Effects of SNAP after the ARRA,” with Elton Mykerezi. Institute on Poverty Research: University of Wisconsin (2012), \$40,000. Co-PI.

“Effects of Age and Cohort on Diet Quality,” with Travis Smith. ERS Cooperative Agreement (2012), USDA-ERS, proj. #00031246, \$34,813. PI.

“US Diet Quality and Temporal Polarization,” with Travis Smith. ERS Cooperative Agreement (2011), USDA-ERS, proj. #00025643, \$25,079. PI.

“Food Security and Food Choice,” with Charlotte Tuttle. Gift from General Mills (2010,2011), \$84,413. PI.

“Power and Predictive Success in Revealed Preference Tests,” with Laura Blow (IFS) and Ian Crawford (IFS and Oxford). Economic and Social Research Council (2009-2010), £95,000. Co-PI.

“Nonparametric Approaches to Measuring the Effect of Air Quality on Health Outcomes.” National Institutes of Health Research (2009-2010), £29,900. PI.

“Heat or Eat: An Empirical Investigation of Cold-Weather Income Support Programs,” with Laura Blow (IFS) and Thomas Crossley (IFS and Cambridge). Nuffield Foundation (2009-2010), £45,000. Co-I.

“Canada Research Chair (Tier 2) in Food Market Analysis. (Renewal)” Canada Research Chair Program (2007-2011), CAD 500,000. PI.

“Housing and Well-Being,” with Erling Røed Larsen (Statistics Norway). Liev Eiriksson Mobility Grant Program, Norwegian Research Council (2006), CAD 85,000. PI.

“Inverse Demand Systems and the Unit Value Problem.” Consumer and Market Demand Network, Agriculture Canada Policy Research Network (2006), CAD 19,600. PI.

“Hidden Homelessness: A Micro-Data Approach,” with Krishna Pendakur (Simon Fraser University). Homelessness and Diversity Initiative, Social Sciences and Humanities Research Council of Canada (2005-2007), CAD 100,000. CO-PI.

“Semi-parametric Estimates of Nutrient Expenditure.” Standard Research Grant, Social Sciences and Humanities Research Council of Canada (2004-2007), CAD 31,600.

“Kuhn–Tucker Approaches to Estimating Household Demands for Foods.” Hampton Research Fund, University of British Columbia (2004-2006), CAD 35,000.

“Food Market Analysis Laboratory.” Canadian Foundation for Innovation (2002), CAD 96,000.

“Canada Research Chair (Tier 2) in Food Market Analysis.” Canada Research Chair Program (2002-2007), CAD 500,000.

## Professional Service

Founding Editor

*Journal of the Agricultural and Applied Economics Association* 2015–2019.

Co-Editor

*American Journal of Agricultural Economics* 2015–2019.

Editorial Boards

*Fiscal Studies* 2013–Present.

*Journal of Agricultural and Resource Economics* 2011–2014.

*Canadian Journal of Agricultural Economics* 2011–2014.

#### AAEA Service

Member, AAEA Board of Directors, 2019–2022.

Member, Quality of Research Discovery Award Panel, 2015–2019.

President-Elect / President / Past President, Econometrics Section, 2012–2015.

Economic Statistics and Information Resources Committee, 2011–2013.

Co-organizer Food and Agricultural Policy Track Sessions, 2010, 2011.

Member-at-Large, Food Safety and Nutrition Section, 2010–2012.

#### Reviewer Service

*Agricultural and Resource Economics Review, American Journal of Agricultural Economics, Canadian Journal of Agricultural Economics, Canadian Public Policy, Economic Inquiry, Health Economics, Journal of Applied Econometrics, Journal of Business Economics and Statistics, Journal of Environmental Economics and Management, Journal of Health Economics, Review of Economic Studies, Canadian Agricultural Economics Association, American Agricultural Economics Association.*

#### Government Service.

Household Survey Redesign Expert Panel, Statistics Canada, Income Statistics Division, 2006 – 2008.

## Teaching

ARE 202A Introduction to Applied Research Methods, UC Davis.

Fall 2018, 2019, 2020, 2021.

ARE 231 Agricultural Demand and Supply, UC Davis.

Fall 2016, 2017, 2018, 2019, 2020, 2021.

ARE 130 Agricultural Markets, UC Davis.

Winter 2015, Fall 2015, 2016, 2017, 2018.

ARE 256A Applied Econometrics I, UC Davis.

Fall 2014, 2015, 2016, 2017.

APEC 5031 Methods of Economic Data Analysis, University of Minnesota.

Fall 2011, 2012, 2013.

APEC 8903/8904 Qualifying Paper Seminar, University of Minnesota.

Fall 2012, Spring 2013, Fall 2013.

APEC 8403 Consumer Theory, University of Minnesota.

Spring 2012.

2080002 Quantitative Analysis, University of York.

Spring 2008, Fall 2008/Spring 2009, Fall 2009/Spring 2010.

– Top Rated Instructor University of York, Economics, Fall 2008 –  
2070000 Mathematics Review Course, University of York.  
Fall 2007, 2008, 2009.  
2030603 Applied Economics  
Fall 2007/Spring 2008.  
COMM/FRE 295 Managerial Economics, University of British Columbia.  
Fall 2005.  
AGEC 501 Applied Demand Analysis, University of British Columbia.  
Spring 2002, 2003, 2004, 2005.  
FRE 475 Regulating Food Safety in Global Food Markets, University of British Columbia.  
Spring 2002, 2003, 2004.

## Ph.D. Supervision

Supervisor or Co-Supervisor.

Alison Sexton (University of Minnesota, joint with Steven Polasky), 2012.  
Research Associate, University of Southern California.  
Charlotte Tuttle (University of Minnesota), 2013.  
National Program Leader, Economics Markets and Trade, USDA–NIFA.  
Travis Smith (University of Minnesota), 2014.  
Associate Professor, Department of Agricultural Economics, University of Georgia.  
Bhagyashree Katare (University of Minnesota), 2015.  
Associate Professor, Department of Agricultural Economics, Purdue University.  
Joel Cuffey (University of Minnesota) 2016.  
Assistant Professor, Department of Agricultural Economics, Auburn University.  
Xinzhe Huang (UC Davis), 2017.  
Analyst, Congressional Budget Office.  
Alexandra Hill (UC Davis), 2019.  
Assistant Professor, Department of Agricultural and Resource Economics, Colorado State University.  
Danea Horn (UC Davis, joint with Rich Sexton), 2021.  
Postdoctoral Scholar, Stanford University.  
Charlotte Ambrozek (UC Davis), Expected 2022.  
Sarah Smith (UC Davis), Expected 2023.  
Yijing (Olivia) Wang, Expected 2023.  
Goeun Lee, Expected 2024.