Daniel Tregeagle

Agricultural and Resource Economics
Campus Box 8109
2801 Founders Drive,
Raleigh, NC 27695

Phone: (919) 515-6091
Email: tregeagle@ncsu.edu
Website: http://danieltregeagle.com

Education

Ph.D. in Agricultural and Resource Economics, University of California, Berkeley, 2017.

Dissertation Title: "The Dynamics of Perennial Crop Production and Processing."

Committee: David Zilberman (chair), Larry Karp, David Romer, Leo Simon.

Fields: Environmental and Resource Economics, Agricultural Policy

M.S. in Agricultural and Resource Economics, University of California, Berkeley, 2012.

Bachelor of Resource Economics (Hons 1M), University of Sydney, 2010.

Professional Experience

Current Position

Associate Professor and Extension Specialist, North Carolina State University. 2026–Present.

Previous Positions

Assistant Professor and Extension Specialist, North Carolina State University. August 2019–2026.

Post-Doctoral Scholar, Agricultural and Resource Economics, University of California, Davis. Supervisor: Prof. Rachael Goodhue. July 2017–July 2019.

Visiting Researcher, School of Economics, University of Sydney, June 2018.

Graduate Research Assistant for Prof. David Zilberman, University of California, Berkeley, Fall 2011–June 2013; Spring 2014; Spring 2015–Spring 2017.

Assistant to Prof. Tony Fisher, helping him prepare and typeset a book of natural resource economics lecture notes, University of California, Berkeley; 2016–2018.

Graduate Economist at the Australian Bureau of Agricultural and Resource Economics and Science, Jan–Jun 2011.

Summer Intern at the Australian Bureau of Agricultural and Resource Economics and Science, Jan–Feb 2010.

Publications

* denotes graduate student or post-doc I supervised for the project.

Peer-Reviewed Research Publications

2026 13. Han, Jung Hoon*, Yue Shan* and **Daniel Tregeagle**. "The welfare effects of controlled environment propagation in the US strawberry nursery industry". Forthcoming at *Journal of Agricultural and Resource Economics*.

12. Knuth, Melinda, Alan Hodges, Charles R. Hall, Hayk Khachatryan, and **Daniel Tregeagle**. "Economic Contributions of the Green Industry in the United States in 2023." *Journal of Environmental Horticulture*, 44(2), 2026, 68–75.

11. Grumet, Rebecca, Zhangjun Fei, Amnon Levi, Michael Mazourek, James McCreight, Lina Quesada-Ocampo, Yiqun Weng, Sandra Branham, Mary Hausbeck, Anthony Keinath, Shaker Kousik, Melinda Knuth, Angela Linares Ramirez, Kai-Shu Ling, Cecilia McGregor, Geoffrey Meru, Marco Palma, Umesh Reddy, Luis Ribera, Jonathan Schultheis, Christine Smart, **Daniel Tregeagle**, Patrick Wechter, Todd Wehner, Linda Wessel-Beaver, William Wintermantel, and Shan Wu. "The USDA-SCRI CucCAP Projects: Building Genomic, Breeding and Disease Management Tools for Cucurbit Crops". *Journal of the American Society for Horticultural Science*, 151(2), 2026, 126–146.

10. Freedman, Kyle A.*, Mark Hoffmann, and **Daniel Tregeagle**. "Conditioning Pre-Plant Grapevines Using Controlled Environment Agriculture Can Reduce Vineyard Establishment Time". *American Journal of Enology and Viticulture*, 2026, 77:0770004.

9. Yue Shan*, Jung Hoon Han*, Mark Hoffmann and **Daniel Tregeagle**. "The California Strawberry Nursery Industry: Overview, Challenges, and the Prospects of Controlled Environment Agriculture". *International Journal of Fruit Science*, 26(1), 2026, 2614139.

2025 8. Berenson, Nick*, Amanda Solliday*, **Daniel Tregeagle**, and Melinda Knuth. "Patterns of Sustainability Practices in North Carolina's Ornamental Horticulture Industry". *Choices*, 2025, 40(4), pp 1–6.

7. Knuth, Melinda, **Daniel Tregeagle**, Alicia Rihn, Bridget Behe, Bryan Peterson, and Marco Palma. "The influence of water conservation practices on US nurseries' decision to sell native plants". *HortScience*, 2025, 60(8), pp. 1359–1365.

6. Nian, Yefan, R. David Lamie, Michael Vassalos, **Daniel Tregeagle**, Ben Boyles, Diana Vossbrinck. "A Diamond in the Rough: Identifying Heritage Crop Niche Markets in the U.S. Using a Discrete Choice Experiment". *Agricultural Economics*, 2025, 56(6), pp. 940–960.

2024 5. Cho, Chanheung, Zachary Brown, Kevin Gross, and **Daniel Tregeagle**. "Developing Practical Measures of the Price of Pesticide Resistance: A Flexible Computational Framework with Global Sensitivity Analysis". *Journal of the Agricultural and Applied Economics Association*, 2024, 3(1), pp 212–227.

4. Siegle, Jonathon*, Gregory Astill, Zoë Plakias, and **Daniel Tregeagle**. "Estimating Perennial Crop Supply Response: A Methodology Literature Review". *Agricultural Economics*, 2024, 55(2), pp 159–180.

   Outstanding Published Paper which Significantly Contributed to the SCE Discipline, Specialty Crop Economics Section, Agricultural and Applied Economics Association, 2024.

2023 3. **Tregeagle, Daniel**, and David Zilberman. "Minimizing the costs of biorefinery processing by managing perennial crop age: The case of Brazilian sugarcane." *Journal of Agricultural and Applied Economics*, 2023, 55(2), pp. 376–398.

2022 2. Kilduff, Alice* and **Daniel Tregeagle**. "Willingness-to-Pay for Produce: A Meta-Regression Analysis Comparing the Stated Preferences of Producers and Consumers." *Horticulturae*, 2022, 8(4), 290.

Featured Paper and Editor's Choice.

1. Mace, Kevi, Jessica Rudder, Rachael Goodhue, Tor Tolhurst, **Daniel Tregeagle**, Hanlin Wei, Elizabeth Grafton-Cardwell, Ian Grettnberger, Houston Wilson, Robert Van Steenwyk, Frank Zalom, John Steggall "Balancing bees and pest management: Projected costs of proposed bee-protective neonicotinoid regulation in California". *Journal of Economic Entomology*, 2022, 115(1):10–25.

Outstanding Published Paper which Significantly Contributed to Transdisciplinary Work or Specialty Crop Industries, Specialty Crop Economics Section, Agricultural and Applied Economics Association, 2022.

Peer-Reviewed Extension Publications

2025 1. Nian, Yefan, **Daniel Tregeagle**, Dave Lamie, and Michael Vassalos. "Preserving America's Heritage Crops: Low Consumer Awareness Makes Market-Based Conservation Challenging." Southern Ag Today 5(28.5). July 11, 2025.

Outreach Publications

2024 6. Mark Hoffmann, Amanda McWhirt, Jayesh Samtani, Christle Moore, Guido Schnabel, **Daniel Tregeagle**, Hannah Dankbar, Gina Fernandez, Chip Simmons, Penelope Perkins-Veazie, Barclay Poling, David Lockwood, Roy Flanagan, Erin Eure, Kathryn Holmes, Rebecca Melanson, Kristin Hicks, Aaron Cato, and Sanjun Gu. "Southern Regional Strawberry Production Guide. 2024. AG-645.

2023 5. Zheng, Yanan, Rachael Goodhue, Kevi Mace, Jess Rudder, Tor Tolhurst, **Daniel Tregeagle**, Hanlin Wei, Beth Grafton-Cardwell, Ian Grettenberger, Houston Wilson, Robert Van Steenwyk, Frank Zalom, Monique Rivera, and John Steggall. "Economic and Pest Management Evaluation of the Proposed Regulation of Nitroguanidine-Substituted Neonicotinoid Insecticides: Six Major California Commodities." *ARE Update* 26(6) 2023: 9–11. University of California Giannini Foundation of Agricultural Economics.

2021 4. **Tregeagle, Daniel** "Specialty Crops in 2020: COVID-19 and Other Challenges". *NC State Economist* Winter 2021.

2020 3. Wei, Hanlin, Rachael Goodhue, Kevi Mace, Jessica Rudder, Tor Tolhurst, **Daniel Tregeagle**, Beth Grafton-Cardwell, Ian Grettenberger, Houston Wilson, Robert Van Steenwyk, and John Steggall. "Estimated Cost of the Withdrawal of the Insecticide Chlorpyrifos for Six Major California Crops". *ARE Update* 23(4) 2020: 13–15. University of California Giannini Foundation of Agricultural Economics.

2018 2. Blecker, Steven, Steven Fennimore, Rachael Goodhue, Kevi Mace, John Steggall, **Daniel Tregeagle**, Tor Tolhurst and Hanlin Wei. "Economic Value of the Herbicide Dacthal for Brassica and Allium Crops in California". *ARE Update* 22(2) 2018: 5–8. University of California Giannini Foundation of Agricultural Economics.

1. **Tregeagle, Daniel**, and David Zilberman. "Implications of Disrupting a Perennial Crop Replanting Cycle: The Brazilian Sugarcane Example". *ARE Update* 22(1) 2018: 5–8. University of California Giannini Foundation of Agricultural Economics.

Reports

2025 10. Knuth, Melinda, **Daniel Tregeagle**, and Rajan Parajuli. *North Carolina Green Industry Impact Report 2023–2024*. Submitted to North Carolina Joint Legislative Oversight Committee on Agriculture and Natural Resources, Jan 17, 2025.

2020 9. **Daniel Tregeagle** and Debby Wechsler. *Report on NARBA's 2020 Pricing and Marketing Survey*. Aug 4, 2020. Updated Nov 20, 2020.

   Fruit Growers News, Aug 25, 2020: https://fruitgrowersnews.com/news/2020-caneberry-pricing-survey-report-released/

8. Goodhue, Rachael, Kevi Mace, Tor Tolhurst, **Daniel Tregeagle**, Hanlin Wei, Jessica Rudder, Beth Grafton-Cardwell, Ian Grettenberger, Houston Wilson, Robert Van Steenwyk, Frank Zalom, and John Steggall. *Economic and pest management evaluation of nitroguanidine-substituted neonicotinoid insecticides: eight major California commodities*. Prepared for the Department of Pesticide Regulation by the California Department of Food and Agriculture's Office of Pesticide Consultation and Analysis and the University of California. July 29, 2020.

2019 7. Goodhue, Rachael, Kevi Mace, Jessica Rudder, Tor Tolhurst, **Daniel Tregeagle**, Hanlin Wei, Beth Grafton-Cardwell, Ian Grettenberger, Houston Wilson, Robert Van Steenwyk, John Steggall. *Economic and Pest Management Evaluation of the Withdrawal of Chlorpyrifos: Six Major California Commodities*. Prepared for the Department of Pesticide Regulation by the California Department of Food and Agriculture's Office of Pesticide Consultation and Analysis and the University of California. Dec 2019.

6. Goodhue, Rachael, Kevi Mace, Tor Tolhurst, **Daniel Tregeagle**, Hanlin Wei, Jessica Rudder, Beth Grafton-Cardwell, Ian Grettenberger, Houston Wilson, Robert Van Steenwyk, Frank Zalom, and John Steggall. *Economic and pest management evaluation of nitroguanidine-substituted neonicotinoid insecticides: nine major California commodities*. Prepared for the Department of Pesticide Regulation by the California Department of Food and Agriculture's Office of Pesticide Consultation and Analysis and the University of California. August 26, 2019.

5. Goodhue, Rachael, Tor Tolhurst and **Daniel Tregeagle**. *Economic Impacts of Potential Changes in 1,3-Dichloropropene Township Caps*. Prepared for the California Department of Food and Agriculture's Office of Pesticide Consultation and Analysis. Jan 2019.

2018 4. Goodhue, Rachael, Steven Fennimore, **Daniel Tregeagle**, Tor Tolhurst, and Hanlin Wei. *An Economic and Pest Management Evaluation of the Herbicide Dacthal in California Agriculture*. Final Report submitted to the California Department of Food and Agriculture, Office of Pesticide Consultation and Analysis. August 2018.

2018 3. Goodhue, Rachael, **Daniel Tregeagle**, Tor Tolhurst, Christopher DeMars. *Potential Regulation Regarding Fumigant Application Notifications: Economic Effects for Agriculture in Thirteen Major Agricultural Counties.* Final Report submitted to the California Department of Food and Agriculture, Office of Pesticide Consultation and Analysis. March 2018.

2. Goodhue, Rachael, Brittney Goodrich and **Daniel Tregeagle**. *Implications of the California Clean Environment Initiative (2017) for California Crop Agriculture: An Aggregate Assessment*. Final report submitted to the California Department of Food and Agriculture, Office of Pesticide Consultation and Analysis. January 2018.

2013 1. Hughes, Neal, Cheryl Gibbs, Astrid Dahl, **Daniel Tregeagle** and Orion Sanders. *Storage Rights and Water Allocation Arrangements in the Murray-Darling Basin*, Australian Bureau of Agricultural and Resource Economics and Sciences technical report, Canberra, December 2013.

Working Papers

4. Campbell, Ben, Will Secor, Samyam Shrestha, and **Daniel Tregeagle**. *U.S. Consumer's Perceptions of Undocumented Agricultural Labor*.

   Under review at *Agriculture and Human Values*

3. **Tregeagle, Daniel** and Leo Simon. *The Optimal Management of Orchards*.

2. **Tregeagle, Daniel**. *Disease, Yield Decline, and Perennial Supply Response: Evidence from Florida Orange Production*

1. **Tregeagle, Daniel**, and David Zilberman. *The Impact of the Replant Rate on Perennial Crop Yields: The Case of Sugarcane in Brazil*

Works in Progress

Measuring the potential impacts of further citrus greening spread on the US citrus industry with a dynamic EDM (with Zoë Plakias and Greg Astill)

Measuring grower willingness-to-pay for improvements in sweetpotato disease resistance (with Alice Kilduff)

Estimating costs and returns to controlled environment strawberry nurseries (with Yue Shan, Mark Hoffmann and Ricardo Hernandez)

USDA Cost of Production Estimates for NC Blueberry and Grape Industry (with Derek Washburn and Cassie Scanlan)

Presentations

Extension Presentations

2025 34. *Exploring Careers in Academia, Extension, and Government.*. Agricultural and Applied Economics Association Conference, Denver, CO, USA. Invited panel member. Jul, 2025.

33. *NC Green Industry - Economic Impact*. 2025 North Carolina Green Industry Council Water & Soil Symposium, Raleigh, NC. Jul 9, 2025.

2024 32. *Specialty Crop Budgeting: Developing and Using Enterprise Budgets*. Virginia Cooperative Extension Agribusiness Management and Economics Program Team Annual In-Service Training. Wintergreen Resort, VA (Delivered by Zoom). Aug 22, 2024

2023 31. *2023 Raspberry and Blackberry Pricing Survey: Preliminary Report*. North American Raspberry and Blackberry Association Annual Conference 2024. Wilmington, NC. February 28, 2024.

30. *Developing a Pickling Cucumber Budget*. Southeast Vegetable and Fruit Expo. Myrtle Beach, SC. November 27, 2023.

29. *Fruit and Vegetable Market Outlook*. Southeast Vegetable and Fruit Expo. Myrtle Beach, SC. November 27, 2023.

28. *Supply Chain Impact Model and Stakeholder Interviews: An Appetizer*. PIPCAP SCRI annual meeting. Raleigh, NC. October 17, 2023

27. *Economic Outlook for Produce*. Senior Leadership Meeting for L&M Companies. Raleigh, NC. September 21, 2023.
26. *Economic Outlook for Pickles and Overview of Cucumber Seed Trait Valuation Research*. Pickle Packers International Annual Meeting. Raleigh, NC. Apr 20, 2023.
25. *Economic Outlook for Fruit, and the Economics of Muscadine Production*. North Carolina Muscadine Grape Association. Elizabethtown, NC. Mar 17, 2023.
24. *Economic Update for Sweetpotatoes*. NC Sweetpotato Commission Meeting. Goldsboro, NC. Jan 19, 2023.

2022

23. *Peaches and Cream: Economic Update for Specialty Crops and Dairy*. NC Cooperative Extension State Conference. Greensboro, NC. Oct 4, 2022. (Jointly with Brittany Whitmire)
22. *Economics in Muscadine Vineyards*. 2022 Virtual Southeastern Muscadine School. June 23, 2022.
21. *Preparing Enterprise Budgets*. NC Farm School. Durham, NC. March 21, 2022.
20. *Economic Outlook for Produce*. Bladen County Blueberry Growers' Meeting. Elizabethtown, NC. Feb 15, 2022.
19. *Economic Outlook for Produce*. Brushy Mountain Tree Fruit Meeting, Wilkesboro, NC. Feb 9, 2022.
18. *Southeastern Blackberry Budgets: Overview and How to Use Them*. Arkansas Blackberry Growers Association, Winter Meeting, Feb 5, 2022. Invited keynote.
17. *Economic Outlook for Produce and Apples*. Winter Apple School, Hendersonville, NC. Feb 2, 2022.
16. *Produce Supply Chain Updates*. North Carolina Peach Growers' Annual Meeting. Moore County, NC. Jan 25, 2022.
15. *Gazing at the Big Picture in a Crystal Ball: Planning your Farm within the Macroeconomic and Regulatory Environment*. Southeastern Regional Fruit and Vegetable Conference. Savannah, GA. Jan 8, 2022.
14. *Overview of the 2021 NC Blackberry Budget... and How to Use It*. Southeastern Regional Fruit and Vegetable Conference. Savannah, GA. Jan 7, 2022.
13. *Perspectives on regional marketing of Southeastern-grown blackberries* (Panel with three blackberry growers). Southeastern Regional Fruit and Vegetable Conference. Savannah, GA. Jan 6, 2022.

2021

12. *Fruit and Vegetable Economic Trends*. NC Fresh Produce Safety Task Force, Reconnect and Refocus Meeting. Raleigh, NC. Dec 14, 2021.
11. *An Overview of the 2021 NC Tomato Crop Budget*. NC Ag Expo. Raleigh, NC. Nov 30, 2021.
10. *Strawberry Budgeting*. Southeastern Plasticulture Strawberry School. (Delivered via Zoom due to COVID-19). Oct 28, 2021.
9. *2020 NC Green Industry Outlook*. NC Farm Bureau Ornamental Horticulture Advisory Committee Meeting. (Delivered via Zoom due to COVID-19). Mar 2, 2021.

2020

8. *Strawberry budgeting and economics*. NCSU Strawberry Extension Agent Training. (Delivered via Zoom due to COVID-19). Dec 16, 2020.
7. *Caneberry budgeting and prices*. NCSU Caneberry Extension Agent Training. (Delivered via Zoom due to COVID-19). Dec 9, 2020.

6. *What do NC specialty crop growers need to know about climate change?* ARE Extension Agent Educational Series (delivered via Zoom due to COVID-19). Nov 18, 2020.
5. *2020 NC Specialty Crop Outlook*. ARE Extension Agent Educational Series (delivered via Zoom due to COVID-19). Nov 18, 2020.
4. *An Introduction to the US Fruit and Vegetable Industry*. Expo Alimentaria, Lima, Peru (delivered via Zoom due to COVID-19). Oct 8, 2020.
3. *Blackberry Crop Budgets: What Do Growers Want to Know?* SE Regional Fruit and Vegetable Conference. Savannah, GA. Jan 9, 2020.
2. *How to Use and Adopt Budgeting Tools for Your Blackberry System*. Fundamentals of Blackberry Production Workshop. SE Regional Fruit and Vegetable Conference. Savannah, GA. Jan 9, 2020.
1. *Money Can Grow on Trees: Apple Economics*. SE Apple Growers Meeting. Asheville, NC. Jan 7, 2020.

Scholarly Presentations

2024
28. Agricultural and Applied Economics Association Conference, New Orleans, USA. *The welfare effects of controlled environment propagation in the strawberry nursery industry*. With Jung Hoon Han. Jul, 2024.
27. Purdue University, IN, USA, Agricultural Economics Seminar Series. *State-space approaches to perennial crop supply response: An application to citrus greening in Florida*. With Greg Astill, Zoë Plakias. Feb, 2024.
26. Southern Agricultural Economics Association Conference, Atlanta, GA, USA. *U.S. Residents' Perceptions of Undocumented Agricultural Labor*. With Vitalis Othuon, Ben Campbell, and Will Secor. Feb, 2024.
25. Southern Agricultural Economics Association Conference, Atlanta, GA, USA. *State-space approaches to perennial crop supply response: An application to citrus greening in Florida*. With Greg Astill, Zoë Plakias. Feb, 2024.

2023
24. Agricultural and Applied Economics Association Conference, Washington, DC, USA. *Regionally Identified Heirloom Crops as a Viable Niche for Small Specialty Producers*. With David Lamie, Ben Boyles, Yefan Nian, Michael Vassalos, and Diana Vossbrinck. Jul, 2023.
23. North Carolina State University, Raleigh, NC, USA, Economics of Agriculture Seminar. *State-space approaches to perennial crop supply response: An application to citrus greening in Florida*. With Greg Astill, Zoë Plakias and Jonathon Siegle. Apr, 2023.
22. Australian Bureau of Agricultural and Resource Economics and Science, Canberra, ACT, Australia (virtual presentation). *State-space approaches to perennial crop supply response: An application to citrus greening in Florida*. With Greg Astill, Zoë Plakias and Jonathon Siegle. Apr, 2023.
21. National Sweetpotato Collaborators Group, Wilmington, NC, USA. *Valuing Disease Resistance in Sweetpotato: Developing a national survey—Overview and opportunity for feedback*. Jan 2023.

2022
20. Agricultural and Applied Economics Association Conference, Anaheim, CA, USA. *Improving measurements of specialty crop supply response: The case of disruptions to the US citrus supply-chain*. With Zoë Plakias and Jonathon Siegle. Aug 2022.

2021
19. Agricultural and Applied Economics Association Conference, Austin, TX, USA. *Demand and supply of specialty crop supply elasticities: Insights from a profession-wide survey*, Aug 2021.

2018 18. University of Idaho, Agricultural Economics and Rural Sociology, Moscow, ID, USA. *The Optimal Management of Orchards*, Dec 2018.

17. North Carolina State University, Agricultural and Resource Economics Department. *The Optimal Management of Orchards*, Oct 2018.

16. Annual meeting for SCRI project: 'Next-Generation Disease Resistance Breeding and Management Solutions for Strawberry.' *Strawberries: Recent Trends in Value, Acreage, and Fumigant Use*. UC Davis. Aug 2018.

15. Agricultural and Applied Economics Association Conference, Washington, DC, USA. *The Optimal Management of Orchards*, 2018.

14. Monash University Early Career Economists Conference. *The Optimal Management of Orchards*, Jun 2018.

13. The University of Sydney, Agricultural, Environmental, and Resource Economics Reading Group. *The Optimal Management of Orchards*, Jun 2018.

12. UC Davis, Agricultural Policy Workshop. *The Economics of Perennial Orchards with Endogenous Age-Classes*, Feb 2018.

11. Western Economic Association International Conference, Newcastle, Australia (Twice: at the Early-Career Research Workshop and at the Conference). *The Economics of Perennial Orchards with Endogenous Age-Classes*, Jan 2018.

2017 10. UC Berkeley Agricultural, Food and Resource Policy Workshop. *The Long-run and Transition Behavior of Optimally Managed Perennial Crops*, Spring 2017.

2016 9. Agricultural and Applied Economics Association Conference, Boston, USA. *The Yield Dynamics of Perennial Crops: An Application to Sugarcane in Brazil*, 2016.

8. International Consortium of Applied Bioeconomy Researchers Conference, Ravello, Italy, *The Optimal Management of the Sugarcane-Refinery Supply Chain*. 2016.

7. Canadian Agricultural Economics Society and Western Agricultural Economics Association Joint Annual Meeting, Victoria, British Columbia. *Explaining the Stagnation of the Brazilian Biofuel Industry: The Role of Sugarcane Renewal*, 2016.

2015 6. International Consortium of Applied Bioeconomy Researchers Conference, Ravello, Italy. *Interest Rates and the Stagnation of the Brazilian Biofuel Industry*, 2015.

5. Graduate ARE Student Conference, Riverside, California. *Interest Rates and the Stagnation of the Brazilian Biofuel Industry*, 2015.

2014 4. Graduate ARE Student Conference, Davis, California. *Optimal Production of Perennials when Processing Matters*, 2014.

2013 3. Graduate ARE Student Conference, Berkeley, California. *Investment, Age Structure and Sugarcane Yield: Theory and Evidence from Brazil*, 2013.

2. Energy and Bioscience Institute Retreat, Urbana–Champaign, Illinois. *Financial Considerations and the Productivity of Biofuel in Brazil*, 2013.

2011 1. Australian Agricultural and Resource Economics Society Conference, Melbourne, Vic, Australia. *Damaged Goods: A Resource Depletion Model of Addictive Consumption*, 2011.

Expert Testimony

2018 1. Steven Fennimore and **Daniel Tregeagle** (co-presenters). *An Economic and Pest Management Evaluation of the Herbicide Dacthal in California Agriculture*. Sworn testimony provided to a public hearing 'pertaining to chlorthal-dimethyl degradation product residue detections in ground water'. California Environmental Protection Agency. August 29, 2018.

Media

2025 11. NC Green Industry Grows Economic Impact. CALS News. July 11, 2025.

10. New Report Shows a Growing Green Industry in North Carolina. Greenhouse Grower. July 23, 2025.

2022 9. *Fertilizer Price Spike Highest Since Great Recession*. AgNet Media. Jan 17, 2022.

2021 8. *More People Shopping Locally*. Good Day Charlotte TV Interview. May 11, 2021.

2020 7. *NC Trend: Tater Tale*. Business North Carolina. Dec, 2020.

6. *Sweet Success with Sweetpotatoes*. Episode of the NC State College of Agriculture and Life Sciences Podcast *Farms, Food and You*. Oct 27, 2020.

5. *2020 Caneberry Pricing Survey Report released*. Fruit Growers News. Aug 25, 2020.

4. *Local farmers adjust and adapt sale models amid coronavirus pandemic*. The Daily Tar Heel. Aug 9, 2020.

3. *2020 Caneberry Pricing Survey conducted by universities, NARBA*. Fruit Growers News. June 1, 2020.

2. *Survey seeks retail information on blackberries, raspberries*. The Packer. June 1, 2020.

2018 1. *Researchers Take a Look into the Future of Strawberries: Survey Coming to Growers to Gauge Interests*. California Ag Today. July 1, 2018.

Teaching

Teaching Experience

Instructor for ECG700 *Fundamentals of Microeconomics*, NC State, Fall 2020–2021, 2024–2025. (Masters students).

Instructor, Master of Development Practice Math Bootcamp, UC Berkeley, Summer 2014–2017 (masters students).

Discipline-Cluster Workshop Leader for Quantitative Social Sciences, UC Berkeley GSI Teaching Conference, Spring 2017 (masters and doctoral students).

Teaching Assistant, ARE 298, Dynamic Modeling (a 2 week intensive course) for Prof. Christian Traeger, April 2015 (doctoral students and professors).

Graduate Student Instructor, ARE 211, Mathematical Methods for Agricultural and Resource Economics for Prof. Leo Simon, UC Berkeley, Fall 2014 (doctoral students).

Graduate Student Instructor, EEP 175, The Economics of Climate Change for Prof. Christian Traeger, UC Berkeley, Fall 2013 (senior undergraduate students).

ARE Departmental Tutor, ECON 204, Mathematical Tools for Economists, UC Berkeley, Summer 2013 (doctoral students).

Teaching Assistant, RSEC1031, Introduction to Resource Economics for Prof. Michael Harris, University of Sydney, Aug–Nov 2010 (freshman undergraduate students).

Peer-Assisted Study Session Facilitator for Introductory Micro- and Macroeconomics, University of Sydney, 2008–2010 (freshmen undergraduate students).

Video Peer Assisted Study Session Facilitator for an Anti-plagiarism Component of 'Business in the Global Environment', University of Sydney, 2009–2010 (freshmen undergraduate students).

Guest Lectures

'Small Fruit Budgeting,' Guest lecture for HS422 *Small Fruit Production*, Prof. Hamid Ashrafi, Hort. Sci, NCSU, Spring 2020, Spring 2022, Spring 2024.

'Produce Marketing,' Guest lecture for HS462 *Post-Harvest Handling*, Prof. Penelope Perkins-Veazie, Hort. Sci, NCSU, Spring 2021.

Advising

Ph.D.

Co-chair for Alice Kilduff, Econ., NC State, Ongoing.

Co-chair for Jung Hoon Han, Econ., NC State, Graduated 2024. Initial Position: Korea Rural Economic Institute.

Committee member for Suomi Chandra, Econ., NC State, Ongoing.

Committee member for Yue Shan, Econ., NC State, Graduated 2025.

Committee member for Kyle Freedman, Hort. Sci, NC State, Graduated 2025.

Committee member for Ebrahim Al-Ebrahim, NC State, Econ., Graduated 2020.

Masters

Committee member for Austin Wrenn, Hort. Sci, NC State, Ongoing.

Committee member for Samuel Humphrey, Hort. Sci., NC State, Graduated 2024.

Committee member for Judson Griffin, Econ, NC State, Graduated 2022.

Committee co-chair for Matthew Winters, Econ, NC State, Graduated 2021.

Grants and Funding

Total Funding: $18,033,381.40
Economics Component of Funding: $1,682,120

10. Principal Investigator, "USDA Cost of Production Estimates for NC Blueberry and Grape Industry". Total funding: $55,404. 2024–2025.

9. Principal Investigator, NC Legislative Appropriation, "North Carolina Green Industry Economic Impact Study". Economics Component (with Melinda Knuth): $344,000. Total Funding: $344,000. 2024–2025.
8. Co-Principal Investigator, Horticultural Research Institute Grant, "National Green Industry Survey". Economics Component (with Melinda Knuth, Charlie Hall, and Hayk Khachatryan): $40,000. Total Grant: $40,000. Fiscal Year 2024.
7. Principal Investigator, NCDA Specialty Crop Block Grant, "Precise Indoor Vine Conditioning (PIVC)". Total Grant $85,840. Jan 2022 – Dec 2023.
6. Co-Principal Investigator, USDA SCRI. "Rapid Development of Marketable Root-Knot Nematode Resistant Sweetpotato Varieties: Translation of Genomics and Advanced Phenomics into On-Farm Crop Management Solutions". Economics Component: $266,259. Total Grant: $5,011,710. Sep 2021 – Aug 2025.
5. Principal Investigator, USDA SCRI. "Development and Integration of Next-Generation Propagation Strategies to Increase the Resilience of the US Strawberry Supply Chain". Economics Component (with Rachael Goodhue and Heidi Schweizer): $598,167. Total Grant: $5,294,195. Sep 2021 – Aug 2025.
4. Principal Investigator, ERS Cooperative Agreement, "Economic Impact of Citrus Greening and Import Competition on U.S. Citrus". Economics Component (with Zoë Plakias): $80,000 component with Zoë Plakias. Jun 2021 – Sep 2024.
3. Co-Principal Investigator, NCDA NECP grant "Strengthening and Expanding Muscadine Markets." Economics Component: $9,135. Total Grant: $70,129. Jan 2021 – Dec 2022.
2. Principal Investigator, NCSU Fruit Extension Team, "Reviewing extension program impact evaluation methods". Grant: $1500. Spring 2021.
1. Principal Investigator, USDA SCRI "CucCAP2: Harnessing Genomic Resources For Disease Resistance and Management in Cucurbit Crops — Bringing The Tools To The Field". Economics Component: $287,655. Total Grant: $7,050,603.40. September 2020 – August 2024.

Awards

Outstanding Published Paper which Significantly Contributed to the SCE Discipline, Specialty Crop Economics Section, Agricultural and Applied Economics Association, 2024.

Outstanding Published Paper which Significantly Contributed to Transdisciplinary Work or Specialty Crop Industries, Specialty Crop Economics Section, Agricultural and Applied Economics Association, 2022.

Scholarship to attend 2019 Southeast Strawberry Expo, Raleigh NC ($185).

Travel grant to attend *The Bio-Economy: Technology and Policy Path Forward* at Rutgers University. Sept 2016 ($400).

Outstanding Graduate Student Instructor Award, UC Berkeley, Fall 2013.

University of Sydney Scholarship with Merit, University of Sydney, 2007–2010.

Joane Josephine Harris Bequest Scholarship, University of Sydney, 2007-2010.

Best Oral Presentation – Economics, Agriculture Faculty Honours Conference – University of Sydney, 2010.

Dean's List of Excellence in Academic Performance, University of Sydney, 2007, 2009–2010.

Academic Merit Prize, University of Sydney, 2009.

Martin McIllrath Scholarship in Agriculture, University of Sydney, 2009.

Clifford Dawson Holliday Prize in Agriculture, University of Sydney, 2009.

Alan Randall Prize in Resource Economics, University of Sydney, 2009.

Most Valuable Facilitator Award (Facilitator's Choice), Peer-Assisted Students Sessions (PASS) Program, Winter Semester, 2009.

Warren F Musgrave Memorial Prize in Resource Economics, University of Sydney, 2008.

Belmore Scholarship for First Year, University of Sydney, 2007.

Bruce R Davidson Memorial Prize in Resource Economics, University of Sydney, 2007.

Other Training

Certificate of Teaching and Learning in Higher Education, UC Berkeley, 2017.

COMPASS Science Communication Training Workshop, 25 July, 2017

Collaborative Facilitation Training Workshop, UC Cooperative Extension, 30 Nov, 2016

Service

Peer Review

Reviewer for

Agricultural Economics
Agricultural Systems
American Journal of Agricultural Economics (2)
American Journal of Enology and Viticulture
American Chemical Society Books
Applied Economics Teaching Resources
Climatic Change
California Agriculture (2)
Economic Development and Cultural Change
Global Change Biology – Bioenergy
HortTech (3)
HortScience (2)
International Journal of Fruit Science (2)
International Food and Agribusiness Management Review

Journal of Agricultural and Applied Economics (2)
Journal of Agricultural and Resource Economics
Journal of Food Distribution Research
Renewable Agriculture and Food Systems
Routledge Studies in Agricultural Economics
Washington State Extension

Abstract reviewer for Agricultural and Applied Economics Association annual meeting, 2020-2025.

Judge for AAEA Specialty Crop Economics (SCE) section best paper awards, 2021, 2025.

Clemson University Hatch Proposal reviewer.

Reviewer for Hatch Multistate Project, 2025

Grant Review

Member, Grant Review Panel, *Farm of the Future*, USDA NIFA, 2021.

Member, Grant Review Panel, *Specialty Crop Research Initiative*, USDA NIFA, 2022.

Member, Grant Review Panel, *NCDA New and Emerging Crops Program*, NCDA, 2025.

North Carolina State University

Department of Agricultural and Resource Economics

Chair, ARE social committee, 2022–present.

Member, Economics of Agriculture seminar committee, 2025–present.

Member, Outstanding Ph.D. dissertation award committee, 2021–2025.

Member, Farm Budget Extension Assistant search committee, 2022–2023.

Member, Teaching peer review committee for Andrew Branan, ARE106, Spring 2022.

Member, Teaching Assistant Professor (Agribusiness Marketing) search committee, Spring 2022.

Member, ARE Department Head search committee, Fall 2020–Spring 2021.

ARE Team Captain for State Employees Combined Campaign, Oct–Nov 2019

College of Agriculture and Life Sciences

Member, NC Fruit Extension Team Award of Distinction committee, Fall 2020.

CALS Division Leader for State Employees Combined Campaign, Oct–Nov 2019

Chair, Economic Impacts sub-committee, NC Fruit Extension Team , 2019–2023.

The Graduate School

Graduate School Representative, Dissertation Defense, Pratik Misra, Math Department, April 4, 2021.

Graduate School Representative, Dissertation Defense, Ashley Holland, Psychology Department, Dec 11, 2020.

Graduate School Representative, Preliminary Exam, Ashley Holland, Psychology Department, May 22, 2020.

Graduate School Representative, Preliminary Exam, Pratik Misra, Math Department, Oct 2, 2019

Professional Service

Secretary, S1087 Hatch Multistate Group, 2023–2026.

Chair-Elect and Chair, Specialty Crop Economics Section, Agricultural and Applied Economics Association, 2024–2026.

Conferences

Discussant at Western Economic Association International Conference, Newcastle, Australia. Jan 2018. (For two sessions).

Graduate ARE Student Conference at Davis, Berkeley Organizer, 2014.

Graduate ARE Student Conference at Berkeley, Chair, Conference Organizing Committee, 2013.

Graduate ARE Student Conference at Davis, Berkeley Organizer, 2012.

Professional Memberships

Agricultural and Applied Economics Association

American Economic Association

American Society for Horticultural Science

Hatch Multistate Research Project S1087: *Sustainable Practices, Economic Contributions, Consumer Behavior, and Labor Management in the U.S. Environmental Horticulture Industry*

National Sweetpotato Collaborators Group (SERA5)

Languages

English (Native Speaker)

Software

- Microsoft Office Suite
- Stata
- MATLAB
- R
- LaTeX
- Emacs

Last updated: November 9, 2026