

CONTACT
INFORMATION

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Resource Economics & Environmental Sociology
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RESEARCH
INTERESTS

Agricultural technology adoption and disadoption, genetically modified foods

EDUCATION

University of California, Davis, Davis, CA USA
Ph.D., Agricultural and Resource Economics, November 2009

University of Guelph, Guelph, ON Canada
M.Sc., Agricultural Economics and Business, September 2004

University of Toronto, Toronto, ON Canada
B.Sc., Molecular Genetics and Molecular Biology, May 2000

PROFESSIONAL
EXPERIENCE

Associate Professor and Associate Chair (since July 2019) **July 2016 - present**
Department of Resource Economics & Environmental Sociology, University of Alberta

Visiting Professor **July 2017 - June 2018**
Department of Food, Agricultural & Resource Economics, University of Guelph

Assistant Professor **November 2009 - June 2016**
Department of Resource Economics & Environmental Sociology, University of Alberta

PUBLICATIONS

An, H., F. Qiu and J. Rude. 2021. "Volatility Spillovers between Food and Fuel Markets: Do Administrative Regulations Affect the Transmission?" *Economic Modelling*, 102: 105552.

Wang, S., **H. An**, W.-Y. Chang, C. Gaston and B.R. Thomas. 2021. "Economic Potential of Adopting Genomic Technology in the Alberta's Tree Improvement Sector." *The Forestry Chronicle*, 97: 277-299.

Brown, B.A., **H. An** and S. Jeffrey. 2020. "Benefit-Cost Analysis of Near Infrared Spectroscopy Technology Adoption by Alberta Hog Producers." *Canadian Journal of Animal Science*, 100: 557-569.

Le, S., S. Jeffrey and **H. An**. 2020. "Greenhouse Gas Emissions and Technical Efficiency in Alberta Dairy Production: What Are the Trade-Offs." *Journal of Agricultural and Applied Economics*, 52: 177-193.

Wang, S. and **H. An**. 2019. "Technical Change and Productivity Growth in the Alberta Logging Industry." *Forest Policy and Economics*, 102: 130-137.

Chang, W.-Y., S. Wang, C. Gaston, J. Cool, **H. An** and B.R. Thomas. 2019. "Economic Evaluations of Tree Improvement for Planted Forests: A Systematic Review." *Bioproducts Business*, 4: 1-14.

Lloyd-Smith, P. and **H. An**. 2019. "Are Corporate Social Responsibility and Advertising Complements or Substitutes in Producing Firm Reputation?" *Applied Economics*, 51: 2275-2288.

Campbell, H. and **H. An**. 2016. "Gains from Trade but to Whom? Canola and the Trans-Pacific Partnership." *Western Economic Forum*, 15: 3-10.

An, H., F. Qiu and Y. Zheng. 2016. "How do Export Controls Affect Price Transmission and Volatility Spillovers in the Ukrainian Wheat and Flour Markets?" *Food Policy*, 62: 142-150.

Rude, J. and **H. An**. 2015. "Explaining Grain and Oilseed Price Volatility: The Role of Export Restrictions." *Food Policy*, 57: 83-92.

Hossack, F. and **H. An**. 2015. "Does Payment Type Affect Willingness-to-Pay? Valuing New Seed Varieties in India." *Environment and Development Economics*, 20: 407-423.

An, H. and R. Carew. 2015. "Effect of Climate Change and Use of Improved Varieties on Barley and Canola Yield in Manitoba." *Canadian Journal of Plant Science*, 95: 127-139.

Ndlovu, P.V., K. Mazvimavi, **H. An** and C. Murendo. 2014. "Productivity and Efficiency Analysis of Maize under Conservation Agriculture in Zimbabwe." *Agricultural Systems*, 124: 21-31.

An, H. 2013. "The Disadoption of rbST and its Economic Impact: A Switching Regression Approach." *Applied Economic Perspectives and Policy*, 35(3): 528-549.

Rude, J. and **H. An**. 2013. "Trans-Pacific Partnership: Implications for the Canadian Industrial Dairy Sector." *Canadian Public Policy*, 39(3): 393-410.

Chen, Q., S. Anders, and **H. An**. 2013. "Measuring Consumer Resistance to Innovation in Meat Packaging - Evidence from Choice Experiments." *Food Quality and Preference*, 28(2): 419-428.

An, H. and L.J. Butler. 2012. "A Discrete-Time Duration Analysis of Technology Disadoption: The Case of rbST in California." *Canadian Journal of Agricultural Economics*. 60(4): 495-515.

An, H. and L.J. Butler. 2009. "Update on rbST Use in the California Dairy Industry." *Agricultural and Resource Economics Update*, 12(5): 5-7.

An, H., R.E. Goodhue, P. Howard and R.E. Howitt. 2009. "Reducing Volatile Organic Compound Emissions from Pre-plant Soil Fumigation: Lessons from the 2008 Ventura County Emission Allowance System." *Agricultural and Resource Economics Update*, 12(5): 1-4.

An, H., R.E. Goodhue and L.K. Simon. 2008. "Meeting Quality Requirements Using Contracts: Bonuses, Penalties and Input Provision." In A. Gulati, P.K. Joshi, and M. Landes, eds. *Contract Farming in India: A Resource Book*. Indo-US Knowledge Initiative of Agriculture.

Fernandez-Cornejo, J., A. Somwaru, M. Brady, and **H. An**. 2008. "Global Effects of Biofuel Production in the Medium Term." *Outlooks on Pest Management* 19(5):220-224.

PRESENTATIONS

2021

- Canadian Agricultural Economics Society Agri-Food Policy Conference, Ottawa, ON. (Selected)

2019

- International Consortium on Applied Bioeconomy Research Conference, Ravello, Italy (Selected)
- Agricultural and Applied Economics Association Annual Meeting, Atlanta, GA, USA. (Selected)

2018

- Agriculture and Agri-Food Canada, Ottawa, ON. (Invited)
- University of Guelph, Department of Food, Agricultural and Resource Economics, Guelph, ON.

(Invited)

2017

- Alberta Agricultural Economics Association Annual Visions Conference, Red Deer, AB. (Invited)
- Agriculture and Agri-Food Canada, Ottawa, ON. (Invited)
- University of Guelph, Department of Food, Agricultural and Resource Economics, Guelph, ON. (Invited)

2016

- Joint Canadian Agricultural Economics Society and Western Agricultural Economics Association Annual Meeting, Victoria, BC. (Selected)
- Future of Food Law and Policy in Canada, Halifax, NS. (Selected)

2015

- Canadian Economics Association Annual Meeting, Toronto, ON. (Selected)
- Joint Canadian Agricultural Economics Society and Northeast Agricultural and Resource Economics Association Annual Meeting, Newport, RI, USA. (Selected)
- Joint Agricultural and Applied Economics Association and Western Agricultural Economics Association Annual Meeting, San Francisco, CA, USA. (Selected)
- 11th International Symposium on Biocatalysis and Agricultural Biotechnology, Banff, AB. (Invited)
- Phytola Science Meeting, Banff, AB. (Invited)
- University of Saskatchewan, Department of Bioresource Policy, Business and Economics, Saskatoon, SK. (Invited)
- University of Alberta, Public lecture for Sustainability Awareness week on “Biotechnology and Sustainable Food Production”, Edmonton, AB. (Invited)

2014

- Joint Canadian Economics Association and Canadian Agricultural Economics Society Annual Meeting, Vancouver, BC. (Selected)
- Livestock Genomics in Alberta Conference, Calgary, AB. (Invited)
- University of Alberta, Department of Economics, Edmonton, AB. (Invited)

2013

- Alberta Agricultural Economics Association Annual Visions Conference, Red Deer, AB. (Invited)
- Western Agricultural Economics Association Annual Meeting, Monterrey, CA, USA. (Selected)
- Joint Canadian Agricultural Economics Society and Agricultural and Applied Economics Association Annual Meeting, Washington, DC, USA. (Selected)

2012

- Consumer and Market Demand Agricultural Policy Research Network, Edmonton, AB. (Selected)
- Canadian Economics Association Annual Meeting, Calgary, AB. (Selected)
- Agricultural and Applied Economics Association Annual Meeting, Seattle, WA, USA. (Selected)
- Canadian Science Policy Conference, Calgary, AB. (Selected)

2011

- Canadian Agricultural Economics Society Annual Meeting, Banff, AB. (Selected)

2010 and earlier

- University of Saskatchewan, Department of Bioresource Policy, Business & Economics, Saskatchewan, SK, 2010. (Invited)
- University of Alberta, Department of Rural Economy, Edmonton, AB, 2009. (Invited)
- Canadian Agricultural Economics Society Annual Meeting, Toronto, ON, 2009. (Selected)
- Agricultural and Applied Economics Association Annual Meeting, Milwaukee, WI, USA, 2009.

(Selected)

- American Association of Agricultural Economics Annual Meeting, Orlando, FL, USA, 2008. (Selected)
- Pacific Conference for Development Economics, San Diego, CA, USA, 2008. (Selected)
- Canadian Association for the Study of International Development Conference, Winnipeg, MN, 2004. (Selected)

RESEARCH GRANTS Results Driven Agriculture Research (co-applicant), “Farm-Level Economics of Corn Intercropping Strategies for Extended Winter Grazing of Beef Cattle”, 2021. (\$67,500)

Support for the Advancement of Science, University of Alberta (PI), “Using Economics to Guide Silvicultural Activities: The Role of Trade-offs and Government”, 2021. (\$9,715).

Major Innovation Fund, Alberta Agriculture and Forestry (co-applicant), “Impact of Pre-conditioning and Management on AMU and AMR”, 2019. (\$566,525).

Alberta Wheat and Barley Commission and Saskatchewan Wheat Development Commission (PI), “Factors Influencing Wheat Variety Adoption Decisions in Canadian Prairies”, 2019. (\$63,020)

Genome Canada Large Scale Applied Research Project Competition (co-applicant) , “Genomic ASSETS: Antimicrobial Stewardship Systems for Evidence-based Treatment Strategies for Livestock”, 2019. (\$498,000)

Agriculture and Agri-Food Canada (PI), “Hypothetical Bias, Strategic Stated Preferences and the Demand for Gene-Edited Canola”, 2018. (\$24,000)

Alberta Agriculture and Forestry (co-PI with P. Marcoul), “Cooperation and Information Sharing between Competitors: Genomic Selection”, 2018-2020. (\$84,000)

Ontario Ministry of Agriculture, Food and Rural Affairs (PI: G. Hailu), “Trade and Competitiveness: Productivity, Innovation, and Product Differentiation”, 2018-2020. (\$151,600)

Genome Canada Large Scale Applied Research Project Competition (co-applicant and GE3LS co-PI), “Resilient Forests: Climate, Pests and Policy”, 2016-2019. (\$5 million)

Phytola (PI), “Economic Implications of Changing Demands for Canola”, 2015-2017. (\$24,000)

Alberta Livestock and Meat Agency (PI: S. Jeffrey), “Economic Assessment of Greenhouse Gases and Production Efficiency”, 2015-2017. (\$100,400)

Alberta Crop Industry Development Fund (co-PI with S. Jeffrey and J. Unterschultz), “Benefit-Cost Analysis of NIRS Feeding Initiative”, 2012-2015. (\$122,177)

Canadian International Food Security Research Fund (co-applicant), “Alleviating Poverty and Malnutrition in Agro-Biodiversity Hotspots”, 2011-2014. (\$4.88 million)

Genome Canada Large Scale Applied Research Project Competition (co-applicant) , “POPCAN: Genetic Improvement of Poplar Trees as a Canadian Bioenergy Feedstock”, 2011-2014. (\$600,000)

Genome Canada Large Scale Applied Research Project (co-applicant), “Whole Genome Selection through Genome-Wide Imputation in Beef Cattle”, 2011-2014. (\$340,944)

Genome Canada Large Scale Applied Research Project (co-applicant), “Application of Genomics to Improving Swine Health and Welfare”, 2011-2014. (\$285,004)

Updated June 2022

Consumer and Market Demand Network Research Grant (PI), Consumer Preferences, Retailer Profits, and the Demand for Genetically Modified Foods, 2010-2012. (\$37,000)

Giannini Foundation Mini-grant (co-PI with L.J. Butler), Agricultural Technology Disadoption: California Dairy Farmers and Recombinant Bovine Somatotropin, 2007-2008. (\$20,000)

TEACHING

Undergraduate: Current Economic Issues for Agriculture and Food (AREC 200, 2019); Social and Economic Issues in Food Biotechnology (AREC 250, 2016-present); Food Market Analysis (AREC 384, 2010-2017)

Graduate: Production Economics (AREC 533, 2010-present); Advanced Price Analysis (AREC 502, 2013-2014 & 2021); Advanced Topics in Development Economics (AREC 500, 2010 & 2012).

HONOURS AND AWARDS

Teaching Award of Merit, North American Colleges and Teachers of Agriculture (NACTA), 2016.

Teaching Wall of Fame, Faculty of ALES, 2015, 2018.

SERVICE

Annual Meeting Program Chair, Canadian Agricultural Economics Society, July 2015-2017.

Ad hoc referee for: *Agricultural Economics*, *Agricultural and Resource Economics Review*, Agricultural and Applied Economics Association Annual Meeting, *Agricultural Systems*, *American Journal of Agricultural Economics*, *Australian Journal of Agricultural and Resource Economics*, Canadian Agricultural Economics Society Annual Meeting, *Canadian Journal of Agricultural Economics*, *Canadian Public Policy*, *Food Policy*, *Forest Policy and Economics*, *Journal of Agricultural and Applied Economics*, Ontario Ministry of Agriculture, Food and Rural Affairs, *Renewable Agriculture and Food Systems*, *Sustainability*, *Trends in Food Biotechnology* and Western Agricultural Economics Association Annual Meeting.

PROFESSIONAL AFFILIATIONS

Member: Canadian Agricultural Economics Society, Agricultural and Applied Economics Association.