

Bruno Wichmann

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Department of Resource Economics and Environmental Sociology

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Education

Ph.D. (Economics) University of Tennessee, Knoxville, 2012

M.A. (Economics) University of Tennessee, Knoxville, 2010

M.Sc. (Economics) Federal University of Ceara, Brazil, 2006

B.Sc. (Economics) Federal University of Ceara, Brazil, 2002

Academic Positions

Associate Professor (2018-present), University of Alberta

Assistant Professor (2012-2018), University of Alberta

Adjunct Professor (2007), Federal University of Ceara

Research Areas of Interest

Environmental Economics, Social and Economic Networks, Experimental Economics, Applied Microeconomics.

Teaching

University of Alberta, Canada (2012-present)

- AREC 569: Advanced Topics in Natural Resource and Environmental Economics
- AREC 465: Advanced Natural Resource Economics
- AREC 365: Natural Resource Economics

University of Tennessee, United States (2008-2012)

- ECON 322: The Global Economy: Trade and Development
- ECON 201: Principle of Economics (laboratory sections)

Federal University of Ceará, Brazil (2007)

- Industrial Organization I
- Economic Theory II
- Principles of Economics

Journal Articles

- **B. Wichmann** and R. Wichmann. 2022. “COVID-19 and Indigenous Health in the Brazilian Amazon” *Economic Modelling* (in press).
- K. Lim, **B. Wichmann**, and M. Luckert. 2021. “Adaptation, Spatial Effects, and Targeting: Evidence from Africa and Asia” *World Development* 139, 105230.
- **B. Wichmann** and R. Wichmann. 2020. “Nonparametric estimation of a primary care production function in urban Brazil” *Health Economics Review* 10.
- K. Lim, **B. Wichmann**, M. Luckert, P. Laderach. 2020. “Impacts of Smallholder Agricultural Adaptation on Food Security: Evidence from Africa, Asia, and Central America” *Food Security* 12, 21–35.
- Neilson, W., M. Price, and **B. Wichmann**. 2018. “Added Surplus and Lost Bargaining Power in Long-term Contracting” *Journal of Behavioral and Experimental Economics* 76, 7-22.
- Chen, M. **B. Wichmann**, M. Luckert, L. Winowiecki, W. Foerch, and P. Laderach. 2018. “Diversification and Intensification of Agricultural Adaptation from Global to Local Scales” *PLOS ONE* 13(5): e0196392.
- Mohapatra, S., **B. Wichmann** and P. Marcoul. 2018. “Removing the ‘Veil of Ignorance’: Nonlinearities in Human Capital Effects on Gender Inequality” *Contemporary Economic Policy*, 34(4), 644-666.
- **Wichmann, B.**, P. Boxall, S. Wilson¹, and O. Perger. 2017. “Auctioning Risky Conservation Contracts,” *Environmental and Resource Economics* 68(4), 1111–1144.
- **Wichmann, B.** and M. Yang. “Blue Beijing: Estimating the Effects of Temporary Emissions Restrictions on Air Quality,” *Applied Economics Letters* 24:21, 1504-1510.
- Johny, J., **B. Wichmann**, B. Swallow. 2017. “Characterizing social networks and their effects on income diversification in rural Kerala, India,” *World Development* 94: 375–392.
- **Wichmann, B.**, M. Chen, and W. (Vic) Adamowicz. 2016. “Social Networks and Choice Set Formation in Discrete Choice Models,” *Econometrics* 4(4): 1–26.

¹Underlined name denotes graduate student.

- **Wichmann, B.** 2015. “Agents of Change and the Approximation of Network Outcomes: A Simulation Study,” *Networks and Spatial Economics* 15(1):17–41.
- Neilson, W. and **B. Wichmann.**^{*2} 2014. “Social Networks and Non-market Valuations,” *Journal of Environmental Economics and Management* 67(2): 155–170.
- Oliveira-Neto, F., P. Pontes, and **B. Wichmann.*** 2014. “A Benchmarking Analysis of the Brazilian Airport Infrastructure: An Application of the Expected Minimum Input Frontier,” *Journal of Transport Economics and Policy* 48(2): 297–313.
- **Wichmann, B.** 2013. “Environmental Regulation of Technically Inefficient Firms,” *Economics Letters* 121(2): 143–147.
- Cozad, M. and **B. Wichmann.*** 2013. “Efficiency of Health Care Delivery Systems: Effects of Health Insurance Coverage,” *Applied Economics* 45(29): 4082–4094.
- Gritsko, N., V. Kozlova, W. Neilson, and **B. Wichmann.*** 2013. “The CEO Arms Race,” *Southern Economic Journal* 79(3): 586-599.

Book Chapters

- Todd Godfrey and **B. Wichmann.** 2012. “Measuring social impacts: building tools for understanding community well-being” in *Extractive Industry and the Sustainability of Canada’s Arctic Communities*. Edited by Chris Southcott, Frances Abele, David Natcher, and Brenda Parlee.
- Holanda, M., **B. Wichmann,** and P. Pontes. 2011. “The Viability of the biodiesel program as an instrument of social inclusion” in *Energy, Bio Fuels and Development: Comparing Brazil and the United States*. Routledge Studies in Development Economics. Edited by Edmund Amann, Werner Baer, and Don Coes.

Grants Received

14. Canada Wildfire, “Wildfire Detection Economics in Alberta” (PI), 2022-2023, \$86,000.
13. Canada Wildfire, “Experiments, Machine Learning and Regression Analysis on Wildfire Suppression Expenditures in Alberta” (PI), 2020-2022, \$68,249.

²Star (*) denotes that order of authors was chosen to be alphabetical. .

12. Alberta Real Estate Foundation, “The impacts of COVID-19 on Alberta real estate markets” (PI), 2020–2022, \$60,000.
11. Climate Change, Agriculture and Food Security (CCAFS) – Flagship 4 – and the International Centre for Tropical Agriculture (CIAT). “Climate-Smart Agriculture: Examining food security and adaptation in CCAFS global sites” (PI), 2020-2022, \$58,000.
10. University of Alberta. Support for the Advancement of Scholarship, “REES Experimental Laboratory” (PI), 2018–2019, \$10,000.
9. University of Alberta. Support for the Advancement of Scholarship, “Bargaining in Networks” (PI), 2017–2018, \$2,500.
8. Northern Scientific Training Program (NSTP) Grant. UAlberta North. “Community Economic Monitoring Tool for the Inuvialuit Settlement Region” (in support of the application of my M.Sc. student Todd Godfrey), 2017–2018, \$2,158.
7. Social Sciences and Humanities Research Council/Resources and Sustainable Development in the Arctic (ReSDA). “Socio-Economic Sustainability Indicators: building tools for understanding community wellbeing” (PI), 2016–2018, \$50,000.
6. University of Alberta. Survey Lab and General Research Services/International Center for Tropical Agriculture (PI), 2016–2021, \$19,561.
5. Social Sciences and Humanities Research Council. Partnership Grant. “Tracking Change - The Role of Local and Traditional Knowledge in Watershed Governance” (co-applicant), 2015–2021, \$2,480,098.
4. Climate Change, Agriculture and Food Security (CCAFS) – Flagship 4 – and the International Centre for Tropical Agriculture (CIAT). “Differentiating Among Determinants of Agricultural Adaptation Across Scales and Activities” (co-applicant), 2015–2016, \$43,700.
3. Social Sciences and Humanities Research Council. Insight Development Grant. “Generating Agri-Environmental Improvements: Integrating Social Networks into Conservation Auctions” (PI), 2014–2016, \$43,033.
2. University of Alberta. VP (Research) Special Funding. “Cost Sharing Programs for the Implementation of Beneficial Management Practices: The Role of Social Networks” (PI), 2014–2016, \$9,960.
1. University of Alberta. Start-up Funding (PI), 2012–2021, \$42,000.

Graduate Student Advising³

- Vaibhav Manawat (M.Sc., 2023 – expected)
- David Garrett (PhD, 2022 – expected)
- Meghan Lim (M.Sc., 2022 – expected)
- Michael Huang (M.Sc., 2021 – completed)
- Catalina Romero (M.Sc., 2020 – completed)
- Todd Godfrey (M.Sc., 2017 – completed)
- Meng Yang (M.Sc., 2017 – completed)
- Daiwei Zhang (M.Sc., 2016 – completed)
- Krisha Lim (M.Sc., 2015 – completed)
- Judit Johny (M.Sc., 2015 – completed)
- Minjie Chen (M.Sc., 2014 – completed)

Refereeing

American Journal of Agricultural Economics, Australian Journal of Agricultural and Resource Economics, Environmental and Resource Economics, Journal of the Association of Environmental and Resource Economists, Journal of Economic Behavior and Organization, Journal of Environmental Economics and Management, Journal of Development Studies, Land Economics, Land Use Policy, World Development.

Professional Affiliations

Agricultural and Applied Economics Association, American Economic Association, Canadian Agricultural Economics Society, Midwest Economics Association.

Presentations

³University of Alberta

Mar/2019 Midwest Economics Association, Annual Meetings, St Louis, MO.
Dec/2018 Resources and Sustainable Development in the Arctic (ReSDA) Workshop, Ottawa, ON.
Mar/2017 Midwest Economics Association, Annual Meetings, Cincinnati, OH.
Mar/2017 Dept. of Resource Economics and Environmental Sociology, University of Alberta, Edmonton, AB.
Apr/2016 Alberta Agricultural Economics Association, Visions Conference, Red Deer, AB.
Mar/2015 Midwest Economics Association, Annual Meetings, Minneapolis, MN.
May/2014 Canadian Economics Association, Annual Conference, Vancouver, BC.
Apr/2014 Department of Economics, Virginia Commonwealth University, Richmond, VA.
Apr/2014 Department of Economics, University of Alberta, Edmonton, AB.
Feb/2014 Department of Economics, State University of New York at Oswego, NY.
Oct/2013 Dept. of Resource Economics and Environmental Sociology, University of Alberta, Edmonton, AB.
Jun/2013 Association of Environmental and Resource Economists. Annual Summer Meeting, Banff, AB.
May/2013 Alberta Agricultural Economics Association, Visions Conference, Red Deer, AB.
Apr/2012 Dept. of Resource Economics and Environmental Sociology, University of Alberta, Edmonton, AB.
Nov/2011 Southern Economic Association Meetings, Washington D.C.
Oct/2011 Heartland Environmental and Resource Economics Workshop, Urbana-Champaign, IL.
Oct/2011 University of Colorado, CU Environmental and Resource Economics Workshop, Vail, CO.
Oct/2011 University of Tennessee, Economics Brown Bag Workshop, Knoxville, TN.
Aug/2011 Camp Resources XVIII, Wrightsville Beach, NC.
Jul/2011 International Economic Science Association Conference, Chicago, IL.
Nov/2010 University of Tennessee, Economics Brown Bag Workshop, Knoxville, TN.
Nov/2010 National Tax Association 103rd Annual Conference on Taxation, Chicago, IL (poster session).
Mar/2010 University of Tennessee, Economics Brown Bag Workshop, Knoxville, TN.
Mar/2010 University of Tennessee, Mini Summit on Poverty and Health Care, Knoxville, TN.

Awards

- First Place, Three Minute Thesis Presentation, Dept of Resource Economics and Environmental Sociology – Awarded to my MSc student Catalina Romero (2019).
- Third Place Winner, Graduate Student Paper Competition, CAES Annual Meetings – Awarded to my MSc student Meng Yang (2017).
- First Place, Three Minute Thesis Presentation, Dept of Resource Economics and Environmental Sociology – Awarded to my MSc student Krisha Lim (2013).
- J. Fred and Wilma A. Holly Fellowship. Department of Economics, University of

Tennessee (2011–2012).

- The Southern Economic Association, Graduate Student Award (2011).
- Best Graduate Student Research Project. Graduate Student Meetings, Department of Economics, University of Tennessee (2010).
- Outstanding Graduate Student Presentation. Economics Brown Bag Workshop. University of Tennessee (2010).
- Best Graduate Student Research Project. Graduate Student Meetings, Department of Economics, University of Tennessee (2009).
- The University of Tennessee Graduate Assistantship (2008–2012).
- Master of Science CNPq Fellowship. National Council for Scientific and Technological Development (CNPq), Brazil (2004–2006).

Examination Committee Member⁴

Yichuan Wang (Ph.D. candidate, 2018). Dissertation title TBD. Ph.D. candidacy oral examination (committee member).

Orsolya Perger (Ph.D. candidate, 2016). Dissertation title TBD. Ph.D. candidacy oral examination (committee member).

Lucas Novak (M.Sc., 2016). Thesis title: “A Reverse Auction for Wetland Restoration in Southern Alberta.” M.Sc. defense (arms-length examiner).

Patrick Lloyd-Smith (Ph.D. candidate, 2015). Dissertation title TBD. Ph.D. candidacy oral examination (committee member).

Manikarnika Kanjilal (Ph.D., 2015). Dissertation title: “Agricultural Producers’ Costs of Adoption of Wetland Restoration Beneficial Management Practices: Estimation and Spatial Transferability.” Ph.D. defense (arms-length examiner).

Wijaya Dassanayake (Ph.D., 2013). Dissertation title: “Household Structure, Climate Change, and Livelihoods in Sub-Saharan Africa.” Ph.D. defense (arms-length examiner).

⁴University of Alberta

Hyun No Kim (Ph.D., 2013). Dissertation title: “The Demonstration and Capture of an Ecosystem Service Value: Three Different Methodological Approaches”. Ph.D. candidacy oral examination (arms-length member).

Scott Wilson (M.Sc., 2013). Thesis title: “Incorporating Variable Costs of Adoption into Conservation Auctions.” M.Sc. defense (arms-length examiner).