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## EDUCATION

Ph.D. University of Illinois at Urbana-Champaign, 2004.  
B.S. University of the Philippines at Los Baños, 1996.

## ACADEMIC APPOINTMENTS

2024-present Professor, Department of Economics,  
Affiliate Faculty, The Environment Program  
University of Vermont, Burlington, VT 05405 USA  
2014-2024 Associate Professor, Department of Economics,  
Affiliate Faculty, The Environment Program  
University of Vermont, Burlington, VT 05405 USA  
2007-2014 Assistant Professor, Department of Economics,  
University of Vermont, Burlington, VT 05405 USA  
2004-2007 Assistant Professor, Department of Food, Agricultural and Resource Economics,  
University of Guelph, Guelph, Ontario, N1G 2W1, Canada

## FIELD OF EXPERTISE

Environmental economics and policy, environmental regulation, environmental technology  
adoption and technical change, corporate environmental strategy

## PUBLICATIONS

Experience and Attribution of Extreme Weather-

The Impact of Management Systems on Technical Change: The Adoption of Pollution Prevention Techniques (2021), 54(1): 171-198. (with George Deltas and Madhu Khanna). <https://doi.org/10.1007/s10644-020-09273-w>

The Effects of Enforcement on Corporate Environmental Performance: The Role of Fairness, (2021) 17(1): 71-118 (with D. Earnhart and Robert Glicksman), <https://doi.org/10.1515/rle-2019-0012>

The Effect of Enforcement Fairness on Environmental Performance, (2020) [S.I.], 9(2): 1-34. (with D. Earnhart and Robert Glicksman) <http://www.macrothink.org/journal/index.php/emsd/article/view/16708/12938>

Patent Citations and Network Effects from Climate Wise Program, (2015), 35(4): A234 (with B. Graham and K. Brouhle)

Effect of audits on the extent of compliance with wastewater discharge limits, (2014), 68(2): 243-261 (with D. Earnhart)

Does Pollution Prevention Reduce Toxic Emissions? A Dynamic Panel Data Model (2014), 90(2): 199-221 (with G. Deltas and M. Khanna)

EMS and the VCR: The role of environmental management systems in the Canadian Voluntary Climate and Challenge Registry, (2013), 57(8): 1145-1168 (with K. Brouhle)

Green Management and the Nature of Pollution Prevention Innovation, (2013), 46(5), 465-482 (with G. Deltas and M. Khanna)

Market with (Somewhat) Environmentally Conscious Consumers, (2013), 22(3): 640-667 (with G. Deltas and M. Khanna)

Innovation under the Climate Wise Program, (2013), 35(2): 91-112 (with K Brouhle and B. Graham)

Effectiveness of State Pollution Prevention Programs and Policies, 31(2): April 2013, 255-278.

Two-Stage Adoption of Pollution Prevention Technologies, January 2012, 34 (3): 349- 373.

GHG Registries: Participation and Performance under the Canadian Voluntary Climate Challenge Program, December 2010 47(4): 521-548 (with K. Brouhle).

Adoption of Pollution Prevention Techniques: The Role of Management Systems, Demand-Side Factors and Complementary Assets, September, 2009 44(1): 85-106 (with M. Khanna and G. Deltas).

Firm Strategy and the Canadian Voluntary Climate Challenge and Registry (VCR), 2009, 18, 360-379 (with K. Brouhle).

Striving to be Green: The Adoption of Total Quality Environmental Management, December 2008, 40: 2995-3007 (with M. Khanna and G. Deltas).

Evaluating an Environmental Right: Public Comment and Government Decision Making in Ontario, July 2008, 56(3): 277-294 (with B.J. Deaton and A. Lintner).

Probability distributions for carbon emissions and atmospheric response,

Conservation Capital and Sustainable Economic Growth  
57(2), 336-359 (with M. Khanna and D. Zilberman).

April 2005,

Non-Peer Reviewed

Foreword to Workshop Special Issue: Environmental Regulation and Innovation in Local  
Communities (2020) (2), 193-195. (with Martin  
Heintzelman) doi:10.1017/age.2020.16, [https://www.cambridge.org/core/services/aop-](https://www.cambridge.org/core/services/aop-cambridge-)  
[cambridge-](https://www.cambridge.org/core/services/aop-cambridge-)

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Technological and Management Abatement Strategies and Input Choices to Increase Output and Abatement

- Selected Paper Presentation, Northeastern Agricultural and Resource Economics Association (NAREA) Virtual Conference, 15-19 June 2020
- Selected Paper Presentation, Association of Environmental and Resource Economists (AERE) Virtual Conference, 3-5 June 2020

Patents and P2: Innovation and Technology Adoption for Environmental Improvements, Selected paper presentation, Northeastern Agricultural and Resource Economics Association (NAREA) Conference, 9-11 June 2019, Portsmouth, N.H

How Technology, Management and Input Choices Influence Abatement and Output: The Case of Chemical Pollution, Selected paper presentation, Northeastern Agricultural and Resource Economics Association (NAREA) Conference, 9-11 June 2019, Portsmouth, N.H.

Can Information Disclosure be an Effective Policy Tool for Climate Change Mitigation? Selected paper, 6<sup>th</sup> World Congress of Environmental and Resource Economists, 11-15 June 2018, Gothenburg, Sweden.

P2 and Patents: Technology Adoption and Innovation and Environmental Performance, Selected paper presentation, Northeastern Agricultural and Resource Economics Association (NAREA) Conference, 11-13 June 2017, Washington, D.C.

Can You Teach an Old Dog New Tricks? Audit Frequency and Audit Quality for Improving Water Quality

- Selected paper presentation, Northeastern Agricultural and Resource Economics Association (NAREA) Conference, 19-21 June 2016, Bar Harbor, Maine.
- Selected presentation of work in progress, Heartland Environmental and Resource Economics Workshop, 17-18 October 2015, University of Illinois, Urbana-Champaign

Information Disclosure as Policy Tool: The Canadian Mandatory Greenhouse Gas Reporting System, Selected paper presentation, Northeastern Agricultural and Resource Economics Association (NAREA) Conference, 28-30 June 2015, Newport, RI

Targeting Polluters for Enforcement Action under the Canadian Environmental Protection Act of 1999

- Selected paper presentation, Association of Environmental and Resource Economists (AERE), Asheville, NC, 4-6 June 2012
- Selected paper presentation, Northeastern Agricultural and Resource Economics Association (NAREA), Lowell, MA, 11-12 June 2012

The Role of Environmental Audits in Reducing Water Effluent Levels, Selected paper presentation, Association of Environmental and Resource Economists (AERE), Asheville, North Carolina, 4-6 June 2012

Two-Stage Adoption of Three Types of Pollution Prevention Activities, Selected paper presentation, American Applied Economic Association (AAEA), Pittsburgh, PA, 24-26 July 2011

Innovation under the Climate Wise ProTm0 gDT/F2 40BT/F7 11.04 Tf1 0 0 1 93.024 438.91 Tm0 g0 G[( )] TJETQq0.000





## PROFESSIONAL SERVICE ACTIVITIES

### University/College/Department

Chair, Economics Department, July 2024-

Chair, Economics Search Committee TT, 2023-2024

Chair, Economics Search Committee NTT Lecturer, 2023-2024

Chair, Economics Search Committee NTT Lecturer, 2023

Member, Socially Responsible Investing Advisory Council (SRIAC), 2023- 2024

Member, ENVS Curriculum Committee, 2022- 2024

Member, Faculty Senate Curricular Affairs Committee, 2022- 2025

Member, Faculty Senate, 2021- 2024

External Member, CDAE Search Committee for Public Administration TT, 2023

Faculty Adviser to the UVM Chapter of The Climate Change Lobby, Fall 2020

Member, Department of Economics, Department Awards Committee, Spring 2020

UA Department Representative, 2019-2020.

Member, College of Arts and Sciences Curriculum Committee, 2016-2019.

Member, Department of Economics, NTT Hiring Committee, Fall 2018-Spring 2019

Member, CAS Kidder Scholarship Committee, April 2018

Member, Grossman Business School Dean's Staff Award Committee, Spring 2017

Member, CAS Kidder Scholarship Committee, Spring 2016

Member, Department of Economics Awards Committee, 2016, 2017

Member, College of Arts and Sciences Admissions Committee, AY 2014-2015

Member, Department BSc Program Committee, Department of Economics, University of Vermont,  
Fall 2014

Member, College of Arts and Sciences Economics Department Chair Review Committee, Fall 2014

Member, Department BSC Economics Program Committee, Department of Economics, University  
of Vermont, Fall 2014

Member, College of Arts and Sciences Honors Committee, AY 2010-2013





Discussant, Association of Environmental and Resource Economists (AERE) Session, Association of Environmental and Resource Economists (AERE) Conference, Asheville, NC, 4-6 June 2012.

Discussant, Association of Environmental and Resource Economists (AERE) Session, American Applied Economic Association (AAEA) Meetings, Pittsburgh, PA, 24-26 July 2011.

Session Chair, Association of Environmental and Resource Economists (AERE) Session, American Applied Economic Association (AAEA) Meetings, Pittsburgh, PA, 24-26 July 2011.