

Iryna Demko, Ph.D.

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Curriculum Vitae

In my current role at the Center for Economic Development at Cleveland State University, I specialize in data analytics, complex statistical and econometric modeling of industries and trends, and economic impact studies. My research interests lie in the areas of economic inclusion, organic agriculture, cooperatives, organic agriculture, regional and international economics and policy. I have extensive applied knowledge of statistical and programming packages including SAS, Stata, Excel, SQL, Matlab, and R. I am an expert in IMPLAN analysis and lead economic impact studies at the Center. I have more than seven years of experience performing sound statistical analyses published and/or presented in the form of peer-reviewed academic articles, outreach reports, presentations, and research data briefs. Most of my research publications are publicly available at: <https://works.bepress.com/ira-demko/>

EDUCATION

- Ph.D. in Agricultural, Environmental and Regional Economics, The Pennsylvania State University, 2010-2016

Dissertation Title: Essays on U.S. Organic Food Trade and Credence Goods Consumption

Dissertation Committee: Edward C. Jaenicke (Adviser), Spiro E. Stefanou, Douglas H. Wrenn, Peter W. Newberry

- M.A. in Economics (joint program), concentration in Financial Economics, University of Houston and Kyiv School of Economics, 2008-2010
- B.A. in Finance with a major in Economics and Entrepreneurship, Petro Mohyla Black Sea National University, 2004-2008

EMPLOYMENT

Cleveland State University, Cleveland, OH

2018-Present

Research Associate/Project Manager at the Center for Economic Development

- Lead large-scope research projects of high visibility and complexity
- Design and perform economic impact analysis using IMPLAN software (desktop app and online)
- Develop and coordinate qualitative studies (managing IRB process, conducting and analyzing interviews, developing Qualdrics surveys)
- Create and execute grant proposals in a PI and Co-PI roles
- Provide technical assistance to local government, small and large businesses and organizations, individuals
- Independently manage Moody's data updates with detailed county-level employment, output, and wages information
- Download, clean, and transform raw ES202 data from the Ohio Jobs and Family Services Department
- Employed linear regression, Lee bounds, truncated regression and interval regression on large dataset, over 10 million recipients of Paycheck Protection Program (PPP) in the U.S.
- Supervise, onboard and train undergraduate and graduate student assistants on a variety of research projects
- Interact professionally with a diverse constituency of clients from the private, public and non-profit sectors

The Ohio State University, Columbus, OH
Postdoctoral Researcher in Agribusiness

2016-2018

- Employed binomial and multinomial logit regressions to analyze farmers' participation in direct marketing to consumers, choice of different types of direct marketing channels, and decisions about food safety
- Used SAS and Stata to analyze over 2 million farm records in the U.S. Censuses of Agriculture and the Census-based Local Food Marketing Practices Survey
- Traveled to USDA Data lab at USDA ERS to work with confidential data
- Prepared outreach report on trends in agricultural cooperatives
- Assisted in obtaining and maintaining datasets

The Pennsylvania State University, University Park, PA
Research and Teaching Assistant

2010-2016

- Employed synthetic control method and gravity trade model to analyze U.S. organic trade using USDA GATS data
- Worked with Homescan Consumer Panel Data to analyze consumers' purchases of potato chips, vitamins, and headache medicine
- Taught computer labs in R/Matlab for Quantitative Methods class taken by Master's and doctorate students at Penn State's Agricultural Economics and Rural Sociology Department and Smeal College of Business
- Led review sessions for Econometrics class taken by undergraduate students at Penn State
- Helped to prepare and grade assignments and exams in Microeconomics and Econometrics
- Assisted in conducting exams for large (over 700 students) undergraduate classes in Microeconomics

PUBLICATIONS IN ACADEMIC JOURNALS

1. **Demko, I., & Sant'Anna, A.C.** (2021). Impact of Race, Ethnicity, and Gender on the SBA Paycheck Protection Program (PPP) Loan Amounts. *Economic Development Quarterly* (Review and Resubmit). **Media Coverage:** The Wall Street Journal Interview; Podcast; U.S. House Committee on Small Business Hearing.
2. **Demko, I., Sant'Anna, A.C., & Liang, K.** (2021). An Overview of the Paycheck Protection Program (PPP) Loans and Implications to Agricultural Enterprise Recovery from COVID. *Journal of Agriculture, Food Systems, and Community Development*, 11(1), 1-8.
DOI: <https://doi.org/10.5304/jafscd.2021.111.003>
3. Plakias, Z.T., **Demko, I.** & Katchova, A. (2019). Direct Marketing Channel Choices among US Farmers: Evidence from the Local Food Marketing Practices Survey. *Renewable Agriculture and Food Systems*, 35(5), 475-489.
DOI: <https://doi.org/10.1017/S1742170519000085>
4. **Demko, I., & Jaenicke, E.C.** (2017). Impact of European Union-U.S. Organic Equivalency Arrangement on U.S. Exports. *Applied Economic Perspectives and Policy*, 40(3), 482-501.
DOI: <https://doi.org/10.1093/aep/px048>

EXTENSION & OUTREACH PUBLICATIONS (* indicates student co-authored publication)

1. Lendel, I.V., Figueroa, G.G.*, **Demko, I.,** & Yochum, J. (2021). COVID-19 Impact on the Economic Vitality Index of Ohio's 88 Counties. *Urban Publications*.

2. **Demko, I.**, McKnight, I.L.*, & Scott, H. (2021). Cooperatives in Ohio's Economy: Their Contribution and the Impact of Covid-19. *Urban Publications*. **Media Coverage:** *The Ohio State University Press Release and Webinar*
3. Lendel, I.V., **Demko, I.**, & Figueroa, G.G.* (2021). Opportunities for Youngstown in the Supply Chains of Northeast Ohio and Pittsburgh Economies. *Urban Publications*. **Media Coverage:** Podcast
4. Ellerbrock, M., **Demko, I.**, Lendel, I.V., & Henrichsen, E.* (2021). Economic Impact of the COVID-19 Pandemic on Ohio. *Urban Publications*.
5. **Demko, I.**, Lendel, I.V., & Figueroa, G.G.* (2021). Navigating Government Statistics of Small Businesses for Pandemic Assistance. *Urban Publications*.
6. **Demko, I.** (2021). Federal Assistance to Agribusiness and Food Processing in Wayne County. The presentation has been submitted to the client.
7. **Demko, I.**, Schnoke, M., Lefebvre, R.*, McKnight, I.L.* & Piazza, M. (2021). Housing Market Pressures in Youngstown during the GM Plant Closure (2016 to 2019). *Urban Publications*.
8. Lendel, I.V., **Demko, I.**, Ellerbrock, M., Lefebvre, R.*, & Figueroa, G.G.* (2020). Economic Impact of CareSource on Dayton and Ohio. 2020. *Urban Publications*. **Media Coverage:** *CareSource press release, Dayton Daily News, JobsOhio*
9. **Demko, I.**, Lendel, I.V., Piazza, M., Figueroa, G.G.*, & Ellerbrock, M. (2020). Youngstown Economy: Recession and Path to Recovery. *Urban Publications*.
10. **Demko, I.**, Piazza, M., & Lendel, I.V. (2020). NEO GRIDs Performance in 2020. *Urban Publications*.
11. **Demko, I.**, Lendel, I.V., & Piazza, M. (2020). From Economic Slowdown to Recession. *Urban Publications*. **Media Coverage:** *Cleveland State University press release*
12. Lendel, I.V., **Demko, I.**, Pasha, O., & Figueroa, G.G.* (2020). The Role of Public Transportation in Youngstown. *Urban Publications*.
13. Lendel, I.V., Piazza, M., **Demko, I.**, Ellerbrock, M., & Forsee, E.* (2020). Good Jobs: Employment and Wages in Groups of Regional Industrial Drivers. *Urban Publications*.
14. **Demko, I.**, & Owusu-Agyemang, S.* (2019). The State of Rural Northeast Ohio. *Urban Publications*.
15. Lendel, I.V., **Demko, I.**, & Ellerbrock, M. (2019). 2019 Cuyahoga County Economic Development Plan: Indicators and Projections Brief. *Urban Publications*.
16. Lendel, I.V., **Demko, I.**, Piazza, M., & Ellerbrock, M. (2019). The Future is Now: Akron's Dynamic and Inclusive Economy. *Urban Publications*.
17. Lendel, I.V., Piazza, M., **Demko, I.**, & Zingale, N.* (2019). Disruptive Growth Through Co-Working Industry: Economic Impact of Potential Real Estate Market Intervention in Cleveland. *Urban Publications*, co-published with *Urban Land Institute of Cleveland*.
18. Piazza, M., **Demko, I.**, Lendel, I.V., & Ellerbrock, M., (2019). Local Front Runners: GRIDs in the 4 Northeast Ohio Metropolitan Areas. *Urban Publications*.
19. Lendel, I.V., **Demko, I.**, Piazza, M., & Ellerbrock, M. (2019). Northeast Ohio Front Runners: Groups of Regional Industry Drivers (GRIDs). *Urban Publications*. **Media Coverage:** *CRAIN'S Cleveland Business*
20. Lendel, I.V., **Demko, I.**, Piazza, M., Owusu-Agyemang, S.*, Ellerbrock, M., & Jarus, K.* (2019). Youngstown MSA: Growing Regional Industry Drivers (GRIDs). *Urban Publications*.
21. **Demko, I.** (2019). A Profile of Advanced Manufacturing in Northeast Ohio. *Urban Publications*. **Media Coverage:** *Cleveland State University press release*
22. Lendel, I.V., Piazza, M., & **Demko, I.** (2019). Northeast Ohio Front Runners: Groups of Regional Industry Drivers (GRIDs) Research Brief. *Urban Publications*.
23. Lendel, I.V., Piazza, M., **Demko, I.**, Yun, J.* & Owusu-Agyemang, S.* (2018). Northeast Ohio Front Runners: Groups of Regional Industry Drivers (GRIDs). *Urban Publications*.

24. **Demko, I.** (2018). Trends of U.S. Agricultural Cooperatives (1913-2016). *Center for Cooperatives*, co-published with *CFAES Center for Cooperatives*
25. **Demko, I.**, Lendel, I.V., Clouse, C., & Smith, H.* (2018). Economic Impact of the La Villa Hispana and El Mercado Projects. *Urban Publications*. **Media Coverage:** *News 5 Cleveland, Cleveland State University press release*
26. Clouse, C., **Demko, I.**, & Zingale, N.*. (2018). 2017 Economic Impact of Companies Funded and/or Assisted by the Northeast Ohio Entrepreneurial Service Provider Program. *Urban Publications*.
27. **Demko, I.**, Dinterman, R., Marez, M., & Jaenicke, E.C. (2017). U.S. Organic Trade from 2011 to 2016. *Organic Trade Association*. **Media Coverage:** *Agri-Pulse Newsletter, Pew Research Center*
28. Jaenicke, E.C., & **Demko, I.** (2015). A Preliminary Analysis of USDA's Organic Trade Data: 2011 to 2014. *Organic Trade Association*. **Media Coverage:** *Bloomberg News, The Produce News, Food Business News, FoodNavigator-USA.com*
29. Jaenicke, E. C., & **Demko, I.** (2015). Impacts from Organic Equivalency Policies: A Gravity Trade Model Analysis. *Organic Trade Association*.

WORKING PAPERS

1. Sant'Anna, A.C. & **Demko, I.** "Black Farmers Access to Federal Assistance in the form of the SBA Paycheck Protection Program (PPP) Loans." The paper proposal has been invited for submission in *Applied Economic Perspectives and Policy* special issue "Agricultural and Applied Economics and Inequity and Discrimination Faced by African Americans in the United States".
2. **Demko, I.**, & Sant'Anna, A.C. "Participation of Cooperatives in the Paycheck Protection Program (PPP)." Part of the track session proposal from Agricultural Finance Management and the Community and Regional Economics Network sections of the 2022 Agricultural and Applied Economics Association Meeting.

TEACHING EXPERIENCE

1. ECN 202 **Principles of Economics II Macro**, Department of Economics, Baldwin Wallace University, Spring 2022. Role: Independent Instructor. Format: virtual and synchronous.
2. **Applied Regional Economics**, Department of Economics, Petro Mohyla Black Sea National University, Fall 2021. Role: Independent Instructor. Format: virtual and synchronous.
3. UST 300 **Economics Of Policy Analysis**, Maxine Goodman Levin College of Urban Affairs, Cleveland State University, Fall 2019. Role: Substitute Instructor. Format: in person.
4. AEREC 527 **Quantitative Methods**, Department of Agricultural, Environmental and Regional Economics, The Pennsylvania State University, Fall 2014 & Fall 2015. Role: Lab Instructor. Format: in person.
5. ECON 306 **Introduction To Econometrics**, Department of Economics, The Pennsylvania State University, Spring 2011. Role: Teaching Assistant. Format: in person.
6. ECON 102 **Principles of Microeconomics**, Department of Economics, The Pennsylvania State University, Fall 2010. Role: Teaching Assistant. Format: in person.
7. **Business Plan Writing**, Economics Youth Academy, Petro Mohyla Black Sea National University, Spring 2006. Role: Independent Instructor. Format: in person.
8. **Finance**, Economics Youth Academy, Petro Mohyla Black Sea National University, Fall 2005. Role: Independent Instructor. Format: in person.

PROFESSIONAL SERVICE

1. Invited by the U.S. House Committee on Small Business to testify on hearing about the Paycheck Protection Program (PPP), March 17, 2022
2. Invited USDA NIFA Agriculture and Food Research Initiative Competitive Grants Program (AFRI) – Rural and Economic Development Program Grants Reviewer
3. Agricultural and Applied Economics Association Abstract Reviewer
4. Kyiv School of Economics Master Thesis Reviewer in Economic Analysis, and Business and Financial Economics Programs
5. Journal Article Reviewer for:
 - i. *Journal of the Agricultural and Applied Economics Association*
 - ii. *Agribusiness: An International Journal*
 - iii. *Agricultural and Resource Economics Review*
 - iv. *Journal of Agricultural and Resource Economics*
 - v. *Journal of Agricultural and Applied Economics*
 - vi. *Review of Agricultural, Food and Environmental Studies*
6. Workshop facilitator, In Ohio Ecological Food and Farm Association Annual Conference, 2020 Dayton, Ohio
7. Invited participant in a Product Advisory Council for IMPLAN online platform launch, November 2018-present
8. Organizer, Agricultural and Applied Economics Association Track Session “The Impacts of Organic Production on Domestic Economy and Trade”, 2017 European Association of Agricultural Economists Congress, August 29-September 1, 2017, Parma, Italy
9. Organizer, Track Session “Analysis of Organic Supply Chains at the Retail, Production and Trade Levels”, 2017 Agricultural and Applied Economics Association Annual Meeting, July 30-August 1, 2017, Chicago, IL
10. Moderator, Selected Paper Session “Agricultural Policy and Growth Issues”, 2016 Agricultural and Applied Economics Association Annual Meeting, July 31-August 2, 2016, Boston, MA
11. Moderator, Selected Paper Session “Competition, Contracting, and Innovation in Agricultural Markets”, 2015 Agricultural and Applied Economics Association and Western Agricultural Economics Association Joint Annual Meeting, July 26-28, 2015, San Francisco, CA

INVITED PRESENTATIONS AND OUTREACH EXPERIENCE

1. Demko, I., Daugherty, S., & Karpak, B. “Opportunities for Youngstown in the Supply Chains of Northeast Ohio and Pittsburgh Economies”, Podcast, The Maxine Goodman Levin College of Urban Affairs, Cleveland State University, January 5, 2022
2. Presenter, “Cooperatives in Ohio’s Economy: Their Contribution and the Impact of Covid-19”, An Appalachia Cooperates Initiative Webinar, December 15, 2021
3. Demko, I., & Sant’Anna, A.C. “Economic Inclusion in the SBA Paycheck Protection Program (PPP)”, Podcast, The Maxine Goodman Levin College of Urban Affairs, Cleveland State University, December 7, 2021
4. Presenter, “Opportunities for Youngstown in the Supply Chains of Northeast Ohio and Pittsburgh Economies”, Youngstown State University, Eastgate Regional Council of Governments, and the Youngstown/Warren Regional Chamber, September 9, 2021
5. Presenter, “Impact of Race and Gender on the SBA Paycheck Protection Program (PPP) Loan Amounts”, Northeastern Agricultural and Resource Economics Association (NAREA) Scholars Circle Meeting, March 26, 2021
6. Presenter, “Impact of Race and Gender on the SBA Paycheck Protection Program (PPP) Loan Amounts”, Kyiv School of Economics Academic Seminar, March 11, 2021

7. Presenter, “Disruptive Growth Through Co-Working Industry: Economic Impact of Potential Real Estate Market Intervention in Cleveland”, ULI Cleveland Report Presentation & Panel Conversation, May 23, 2019, Cleveland, Ohio
8. Q&A session participant, 2018 Ohio Manufacturers’ Workforce Summit, November 1, 2018, Columbus, Ohio
9. Presenter, “Trends of U.A. Agricultural Cooperatives (1913-2016)”, Advisory Committee Meeting of the Center for Cooperatives at The Ohio State University, October 11, 2018, Columbus, Ohio
10. Plakias, Z., & Demko, I. “Ask the Expert: Opportunities in Direct Marketing”. *Farm Science Review*, September 20, 2017, London, Ohio

CONFERENCE PRESENTATIONS

1. Sant’Anna, A.C. & Demko, I. “Can non-traditional lenders increase credit access in Agriculture? Evidence from the Paycheck Protection Program” Track session paper presented at 2021 Hybrid Agricultural and Applied Economics Association and Western Agricultural Economics Association Joint Annual Meeting, August 1-3, 2021, Austin, Texas
2. Sant’Anna, A.C. & Demko, I. “Can non-traditional lenders increase credit access in Agriculture? Evidence from the Paycheck Protection Program” Paper presented at 2021 Northeastern Agricultural and Resource Economics Association Annual Meeting, June 14-15, 2021, virtual
3. Lendel, I., Piazza, M., & Demko, I. “Groups of Regional Industry Drivers in Northeast Ohio” Selected paper presented at the North American Regional Science Association (NARSC) Meeting, November 13-16, 2019, Pittsburgh, Pennsylvania
4. Demko, I., & Jaenicke, E.C. “Gravity Model Analysis of the U.S. Organic Equivalency Arrangements” Selected paper presented at Mid-Continent Regional Science Association/IMPLAN conference, June 6-8, 2018, Kansas City, Missouri
5. Demko, I., & Jaenicke, E.C. “Gravity Model Analysis of the U.S. Organic Equivalency Arrangements” Selected paper presented at XV European Association of Agricultural Economists Congress, August 29-September 1, 2017, Parma, Italy
6. Demko, I., Plakias, Z., & Katchova, A. “How do Farmers Compose their Portfolio of Local Food Marketing Channels?” Selected paper presented at 2017 Agricultural and Applied Economics Association Annual Meeting, July 30-August 1, 2017, Chicago, Illinois
7. Demko, I., Marasteanu, I. J., & Katchova, A. “Food Safety Choices of U.S. Local Produce Farms” Poster presented at 2017 Agricultural and Applied Economics Association Annual Meeting, July 30-August 1, 2017, Chicago, Illinois
8. Demko, I., & Jaenicke, E.C. “Gravity Model Analysis of the U.S. Organic Equivalency Arrangements” Track session paper presented at 2017 Agricultural and Applied Economics Association Annual Meeting, July 30-August 1, 2017, Chicago, Illinois
9. Demko, I., Katchova, A., & Vogel, S. “Direct-to-Consumer Marketing by U.S. Farms: from 1992 to 2012” Selected paper presented at Regional Science Association International 10th Annual Midwest Graduate Student Summit on Applied Economics and Regional Science, April 21-22, 2017, Columbus, Ohio
10. Demko, I., & Jaenicke, E.C. “Policy Impacts from U.S. Organic Equivalency with the European Union” Selected paper presented at 2016 Agricultural and Applied Economics Association Annual Meeting, July 31-August 2, 2016, Boston, Massachusetts
11. Demko, I., & Jaenicke, E.C. “Estimating the Impact of Organic Equivalency Agreements on U.S. Agricultural Trade” Selected paper presented at 2015 Agricultural and Applied Economics Association and Western Agricultural Economics Association Joint Annual Meeting, July 26-28, 2015, San Francisco, California
12. Demko, I., & Jaenicke, E.C. “Estimating the Impact of Organic Equivalency Agreements on U.S. Agricultural Trade” Selected paper presented at 2015 Northeastern Agricultural and Resource

Economics Association and Canadian Agricultural Economics Society Joint Annual Meeting,
June 28-30, Newport, Rhode Island

13. Demko, I., & Jaenicke, E. "Learning in Credence Good Markets: An Example of Vitamins"
Selected paper presented at 2014 Agricultural and Applied Economics Association Annual
Meeting, July 27-29, 2014, Minneapolis, Minnesota

PROFESSIONAL TRAINING AND CERTIFICATES

- IMPLAN® Training Workshop
- SAS® Programming 1: Essentials
- SAS® Programming 2: Data Manipulation Techniques
- SAS® SQL 1: Essentials
- SAS® Macro Language 1: Essentials
- SQL I (ILT) at Monte Ahuja College of Business, Cleveland State University

REFERENCES

Edward (Ted) C. Jaenicke, Ph.D., Professor of Agricultural Economics, Department of Agricultural Economics, Sociology, and Education, The Pennsylvania State University, tjaenicke@psu.edu

Douglas H. Wrenn, Ph.D., Associate Professor of Environmental and Resource Economics, Graduate Program Director: Energy, Environmental, and Food Economics (EEFE), The Pennsylvania State University, dhw121@psu.edu

Spiro E. Stefanou, Ph.D., Professor Emeritus of Agricultural Economics, Department of Agricultural Economics, Sociology, and Education, The Pennsylvania State University, sstefanou@ufl.edu