Andrii Baryshpolets

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Education

Texas Tech University   *Lubbock, TX, USA*
PH.D. IN AGRICULTURAL AND APPLIED ECONOMICS (GPA 3.869)   *May 2021 (expected)*
- Advisor: Dr. Olga Murova

National University of "Kyiv-Mohyla Academy"   *Kyiv, Ukraine*
M.S. IN FINANCE (WITH HONOR)   *2014*
- Thesis: "Directions of Increase the Efficiency of Innovations at the Enterprises of Ukraine"

National University of "Kyiv-Mohyla Academy"   *Kyiv, Ukraine*
B.S. IN ECONOMIC THEORY (WITH HONOR)   *2012*
- Diploma paper: "Influence of Corporations on Innovative Development of the Economy"

Professional Experience

2020-	Graduate Part-time Instructor	Texas Tech University
2018-2020	Research Assistant	
2016-2017	Graduate Part-time Instructor	
2015-2016	Teaching Assistant	

Teaching Experience

Fall 2020	**Fundamentals of Agricultural and Applied Economics** Graduate Part-time Instructor	Texas Tech University
Spring 2020, Fall 2019, Summer 2019	**Agricultural Statistics** Lab Instructor	
Fall 2016, Spring 2017, Fall 2017	**Principles of Microeconomics** Graduate Part-time Instructor	

Working papers

Andrii Baryshpolets and Stephen Devadoss. 2020. **The Effects of the Free Trade Agreement between the EU and Ukraine on the World's Sunflower Complex: a Multi-Market Spatial Equilibrium Model.** (under review in European Review of Agricultural Economics)

Abstract: This study analyzes the effects of the Deep and Comprehensive Free Trade Area between the European Union and Ukraine on the world sunflower complex markets. We develop a spatial equilibrium trade model that incorporates the vertical and horizontal links between the primary commodity (sunflower seeds) and two final by-products (sunflower oil and meal). Our empirical analysis includes 8 regions - the leading producers and consumers in the sunflower complex. This agreement causes EU's sunflower oil price to decrease by $37.92 (-4.49%) per metric ton, Ukraine's and EU's welfare to increase by $72.6 and $2.6 million, respectively.

Andrii Baryshpolets and Olga Murova. 2020. **Production efficiency analysis of an industry with high latent heterogeneity across firms: the case of sunflower seeds crushing plants in Ukraine.**

Abstract: The main objective of this study is to analyze efficiency of Ukrainian sunflower oil industry using the Stochastic frontier analysis (SFA) framework. Our dataset is an unbalanced panel of 2013-2018 yearly data on 49 Ukrainian sunflower seed crushing plants. Although the crushing technology is quite homogeneous for all the analyzed firms, we argue that traditional single-frontier models are not appropriate for this case. Instead, we perform and compare three different SFA estimators that are best suited to capture latent heterogeneity, i.e., Latent Classes model (Orea and Kumbhakar 2004), Random coefficients model (Tsionas 2000) and a recent model of time-varying true individual effects with endogenous regressors (TVTIEE) proposed by Kutlu et. al. (2019). These estimators have their own advantages and limitations and, given that our dataset is quite small, it seems appropriate to compare them rather than choose one. To the best of our knowledge, this is the first study that performs SFA for an oilseed crushing industry, which contributes to empirical SFA literature. Since Ukraine is the world's largest producer and exporter of sunflower oil, we believe that this study has potential for analyzing industries of leading oilseed countries

Software skills

MatLab, GAMS, Limdep, R, SAS, Stata, GTAP, LaTeX

Honors and Scholarships

2019-2020	Erin Wheeler Cook Memorial Scholarship
2018	SAS (SCSUG) Educational Forum Student Scholarship
2016	Economic History Association Annual Meeting travel stipend
2015-2020	Texas Tech Chess Scholarship
2015-2019	J.T. and Margaret Talkington Graduate School Scholarship

Extracurricular Experience

2020-	Treasurer of the American-Ukrainian Medical Foundation, a public charity that holds 501(c)(3) tax exemption (https://aumf.org/home)
2019-2020	President of the Texas Tech student chess club
Since 2013	Chess International Grandmaster. FIDE top-200 rated player in the World (August 2018). Prize-winner of many international chess tournaments, 2-times Pan-American Intercollegiate champion as a part of the TTU team

References

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