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## SUMMARY OF QUALIFICATIONS AND RESEARCH INTERESTS

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**Specialty areas:** International Trade and International Development.

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**Research interests:** My work focuses on understanding how future patterns of global food consumption will affect human health, and how the agricultural changes needed to support the ongoing global nutrition transition will affect the environment. I combine econometric tools with economic and nutrition modeling to explore the trade-offs and synergies among diets, human health, and environmental sustainability. My goal is to provide inputs on how to meet the nutritional requirements for the world's growing population while ensuring environmental sustainability.

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## EDUCATION

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- Ph.D. in Agricultural Economics**, Expected, May 2021.  
Purdue University, Department of Agricultural Economics.  
2016-  
present  
*Specialization Fields:* International Trade and International Development.  
Dissertation: Three Essays on the Global Food Economy of 2050  
GPA: 3.52 (the grading scale ranges from 0.0 to 4.0)  
Committee: Thomas Hertel (co-chair), Gerald Shively (co-chair), William Masters, Nilupa Gunaratna, and Uris Baldos.
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- Master of Science in Agribusiness and Applied Economics**  
North Dakota State University (NDSU), Department of Agribusiness and Applied Economics.  
2016  
*Specialization Field:* International Economics.  
GPA: 3.81 (the grading scale ranges from 0.0 to 4.0).
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- Licenciatura en Economía** (Bachelor in Economics)  
2012  
Universidad de la República, Uruguay  
Minor degree in Economic Analysis.
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## SELECTED PUBLICATIONS AND WORKING PAPERS

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- "Global food waste across the income spectrum: Implications for food prices, production and resource use"*  
**Emiliano Lopez Barrera** and Thomas Hertel, Food Policy Journal, 2020.  
<https://www.sciencedirect.com/science/article/pii/S0306919220300762>
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- PhD. dissertation ESSAY II: "Excess calorie availability and adult BMI: a cohort analysis of patterns and trends for 156 countries from 1890 to 2015"* **Emiliano Lopez Barrera** and Gerald Shively (Under review).
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- Proceedings of workshop: "National Academies of Sciences, Engineering, and Medicine. (2019). Reducing Impacts of Food Loss and Waste: Proceedings of a Workshop"* National Academies Press. CHAPTER 4: "Impacts of Reducing Food Loss and Waste on Food Availability" **Emiliano Lopez Barrera** and Thomas Hertel.
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- Ph.D. dissertation ESSAY III: "Hunger and Obesity: the "double burden" of malnutrition in a SIMPLE framework"*. **Emiliano Lopez Barrera** and Thomas Hertel (Working paper).
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- "Development and Inclusive Businesses in Colombia? A Case Study from The Oil Palm Supply in the Orinoquia"*  
**Emiliano Lopez Barrera**, James Lowenberg-DeBoer, and Luis Peña-Levano (Working paper).
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**ACADEMIC POSITIONS AND TEACHING EXPERIENCE**

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2018-present **Purdue Systems Collaboratory Fellow**

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Spring 2019-present **Lab Instructor and Teaching Assistant.** Purdue University, Department of Agricultural Economics. AGEC 528- Feeding the World Sustainably.

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2016-present **Graduate Research Assistant.**  
Purdue University, Department of Agricultural Economics.

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2015-2016 **Teaching Assistant.** NDSU Department of Agribusiness and Applied Economics.  
ECON 201-Principles of Microeconomics.  
ECON 105-Elements of Economics.

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2014-2016 **Graduate Research Assistant.**  
NDSU, Department of Agribusiness and Applied Economics.

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**HONORS AND AWARDS**

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2020 Finalist in the Graduate Students Extension Competition AAEA annual meeting.

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2020 Jim and Neta Hicks Graduate Student Small Grant Program (\$5,000).

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2020 A. H. Ismail Interdisciplinary Program Doctoral Research Travel Award (\$1,600).

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2019 Unsung Diversity Hero Team Award (as officer part of the AgEcon GSO) (\$1,500)

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2019 Purdue Graduate Student Government Travel Grant (\$500).

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2019 2<sup>nd</sup> Place in the AAEA Students Case Study Competition (\$200).

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2019 Purdue Systems Collaboratory Fellowship (\$30,146).

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2019 AAEA Trust Committee Travel Grant (\$465).

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2018 Purdue Systems Collaboratory Fellowship (\$30,146).

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2018 Outstanding Poster Award, Latin American Section AAEA annual meeting.

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2018 IAAE Grant for the Early Career Scholars (\$2,500).

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2018 4<sup>th</sup> Place in the AAEA Students Case Study Competition.

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2018 AAEA Trust Committee Travel Grant (\$500).

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2018 IFAMA Travel Grant (\$400).

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2018 Hoover Agricultural Economics Award Scholarship at the Agricultural Economics Department Purdue University (\$1,000).

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2015 Frank Bain Graduate Scholarship at North Dakota State University (\$1,600).

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2015 AAEA Trust Committee Travel Grant (\$900).

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**SELECTED PRESENTATIONS AT CONFERENCES/SEMINARS/WORKSHOPS**

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2020	Presenter “Macroeconomic Impacts of Food Waste”. Workshop organized by the World Bank (Webex only).
2020	Presenter “ <i>Systems Thinking the Household’s Food Waste in The Global Economy</i> ” at the Purdue Systems Thinkers Research Colloquium series at Purdue University. West Lafayette, IN, February 2020
2019	Presenter at VIII Uruguayan Economists Society (SEU) Annual Meeting. Montevideo, Uruguay, December 2019.
2019	Presenter and panelist at the symposium on “ <i>Food waste and loss: Global perspectives and local challenges</i> ”. Co-organized by Emiliano Lopez Barrera, Thomas Hertel, and Brian Roe for the AAEA annual meeting, Atlanta, GA, July 2019.
2019	Presenter at the “ <i>Cocoa and Palm Oil value chains and the role of producers associations in the production systems of Latin America</i> ” track session. AAEA annual meeting. Atlanta, GA, July 2019.
2019	Presenter at Workshop RED in Mexico “ <i>Challenges of a New Era</i> ”. Aguascalientes, Mexico, June 2019.
2019	Presenter at “ <i>The Future of Food and Nutrition</i> ” Graduate Students Research Conference at Tufts University. Boston, MA, April 2019.
2019	Presenter at “ <i>12th Annual AERUS</i> ” conference at the University of Illinois. Urbana-Champaign, IL, April 2019.
2019	Presenter at the “ <i>Linking Food Availability, Food Waste, and Obesity in the Global Economy</i> ” Workshop for the Ingestive Behavior Research Center at Purdue University. West Lafayette, IN, February 2019.
2018	Co-presenter at the National Academy of Sciences at the “ <i>Reducing Food Loss and Waste: A Workshop on Impacts</i> ”. Washington, D.C., October 2018.
2018	Presenter at the “ <i>The double burden of malnutrition in Latin America</i> ” track session. AAEA annual meeting. Washington D.C., August 2018.
2018	Presenter at the “ <i>LAAE 30th Triennial Conference</i> ”. Vancouver, Canada, August 2018.
2018	Presenter at the “ <i>IFAMA annual conference</i> ”. Buenos Aires, Argentina, July 2018.
2018	Presenter at the “ <i>GTAP annual conference</i> ”. Cartagena, Colombia, June 2018.
2015	Presenter at the “ <i>AAEA and WAEA Joint Annual meeting</i> ”. San Francisco, CA, July 2015.
2015	Poster presentation at the “ <i>2nd International Conference on Global Food Security</i> ” hosted by Cornell University. Ithaca, NY, September 2015.
2015	Co-presenter at the “ <i>MVEA annual meeting</i> ”. Kansas City, MO, October 2015.
2013	Poster presentation at the conference of “ <i>AUGM meeting of Latin America’s Universities</i> ”. Montevideo, Uruguay, July 2013.

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**PROFESSIONAL TRAINING**

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2020	<b>Data Science: R Basics &amp; Machine Learning.</b> Certificated study by HarvardX.
2019	<b>Short Course in Multi-scale Analysis of Sustainability.</b> Purdue University, West Lafayette, IN, August 2019.
2014	Workshop: <b>Applying Behavioral and Experimental Economics to Food and Agri-Environmental Issues</b> ” AAEA Post-Conference, San Francisco, CA, July 2015.
2013	<b>Specialization in Computational Statistics with R.</b> Universidad de la República Uruguay, Graduate Programs Department.

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**INSTITUTIONAL SERVICE**

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2020	Referee: AAEA Choices Magazine
2020	President of the Purdue System Thinkers (PurSysT) Students Association.
2019	Moderator in the Selected Paper Session “ <i>Food Access and Nutritional Quality of Low-Income Americans and SNAP Participation</i> ”. AAEA annual meeting. Atlanta, GA, July 2019.
2019	Organizing Committee for the “ <i>Jefferson Science Symposium: What if we could engineer policy?</i> ” at Purdue University, April 2019.
2018-2019	IM Chair of the GSO at the Agricultural Economics Department, Purdue University.
2015	Moderator at: “ <i>Can the Choice Environment Create a Healthy Consumer?</i> ” Workshop co-organized by David Just and Elisabete Salay at Cornell University, September 2015.
2014-2016	Social Chair of the AAE Graduate Students Association at NDSU.
2015	Judge for the Undergraduate Student Section's Paper Competition at the AAEA meeting. San Francisco, CA, July 2015.

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**SOFTWARE AND OPERATIVE SYSTEMS AND LANGUAGES**

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STATA, R, GAMS, and GEMPACK.

Spanish: Native Language, English: Full professional proficiency (ILR scale). OEPP (50 score)

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**REFERENCES**

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**Thomas Hertel**

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