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### Current Position

Chief Economist, Food and Agriculture Organization of the United Nations (FAO), Rome, Italy (January 2019 – Present).

### Education

**Post Doctorate** in 1999 at University of California at Los Angeles, Institute of Social Science Research.

**Ph.D.** received September 1998, University of California at Los Angeles, Department of Economics.

**M.A.** received September 1993, University of California at Los Angeles, Department of Economics.

### Publications<sup>1</sup>

#### **In Peer-Reviewed Journals**

(with Bezawit Beyene Chichaibelu, Maksud Bekchanov and Joachim von Braun). (2021). The Global Cost of Reaching a World Without Hunger: Investment Costs and Policy Action Opportunities, *Food Policy*, Volume 104, 102151, ISSN 0306-9192, <https://doi.org/10.1016/j.foodpol.2021.102151>.

(with Luciana Delgado and Monica Schuster). (2021). On the Origins of Food Loss. *Applied Economic Perspectives and Policy*, 2021; 1– 31, <https://doi.org/10.1002/aep.13156>.

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<sup>1</sup> Google Scholar: 9458 citations (H-index 42, I10-Index 114); REPEC: top 5% in all related productivity and citation measures.

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(with Martins-Filho and Yao). (2018). Nonparametric Estimation of Conditional Value-at-Risk and Expected Shortfall Based on Extreme Value theory. *Econometric Theory*, Cambridge University Press, vol. 34(01), pp. 23-67, February.

(with Hernandez, M). (2018). A Poverty-Sensitive Scorecard to Prioritize Lending and Grant Allocation: Evidence from Central America. *Food Policy*, Volume 77, pp. 81-90, ISSN 0306-9192, <https://doi.org/10.1016/j.foodpol.2018.04.006>.

(with Andre Devaux Andre, André Devaux, Jason Donovan and Douglas Horton). (2018). Agricultural Innovation and Inclusive Value-Chain Development: A Review. *Journal of Agribusiness in Developing and Emerging Economies*, Vol. 8, No. 1.

(with Manuel Barron). (2017). Household Electrification and Indoor Air Pollution, *Journal of Environmental Economics and Management*, Volume 86, pp. 81-92, ISSN 0095-0696, <https://doi.org/10.1016/j.jeem.2017.07.007>.

(with Miguel Almanzar). (2017). Distributional Effects of Growth and Public Expenditures in Africa: Estimates for Tanzania and Rwanda. *World Development*, Vol. 95, pp. 177–195, <https://doi.org/10.1016/j.worlddev.2017.02.019>

(with Nakasone, Eduardo). (2016). A Text Message Away: ICTs as a Tool to Improve Food Security. *Agricultural Economics*, 47: 49-59, <https://doi.org/10.1111/agec.12314>.

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(with Tanguy Bernard). (2015). Social Interaction Effects and Connection to Electricity: Experimental Evidence from Rural Ethiopia. *Economic Development and Cultural Change*, 63:3, 459-484, <https://doi.org/10.1086/679746>.

(with Angelino Viceisza). (2015). To Remit or Not to Remit, That Is the Question: A Remittance Field Experiment. *Journal of Economic Behavior & Organization*, 112, pp. 221–236.

(2015). "The Impact of Rural Electrification: Challenges and Ways Forward," *Revue d'économie du développement, De Boeck Université*, vol. 23(HS), pp. 49-75.

(2015). "L'impact de l'électrification rurale : enjeux et perspectives," *Revue d'économie du développement, De Boeck Université*, vol. 23(3), pp. 55-83.

(with Martins-Filho and Yao). (2014). High Order Conditional Quantile Estimation Based on Nonparametric Models of Regression. *Econometric Reviews*. Taylor & Francis Journals, vol. 34(6-10), pp. 907-958, December.

(with Angelino Viceisza). (2014). Potential Collusion and Trust: Evidence from a Field Experiment in Vietnam. *African Journal of Agricultural and Resource Economics*, Vol 11, Issue 1,11.

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(with Nakasone, Eduardo, and Bart Minten). (2014). The Power of Information: the ICT Revolution in Agricultural Development. *Annual Review of Resource Economics*, Vol. 6 pp. 533-550, October.

(with Marco Castillo, Ragan Petrie and Angelino Viceisza). (2014). Lost in the Mail: A Field Experiment on Crime. *Economic Enquiry*, Vol. 52. Issue 1, pp. 285-303.

(with Manuel Hernandez). (2014). Parametric versus nonparametric methods in risk scoring: An application to microcredit. *Empirical Economics*, Volume 46, Issue 3 (2014), pp. 1057-1079.

(with Marco Castillo, Ragan Petrie, and Lise Vesterlund). (2013). Gender Differences in Bargaining Outcomes: A Field Experiment on Discrimination. *Journal of Public Economics*, Volume 99, pp. 35-48, ISSN 0047-2727, <https://doi.org/10.1016/j.jpubeco.2012.12.006>.

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(with Hernandez, Manuel). (2013). Market Concentration and Pricing Behavior in the Fertilizer Industry: A Global Approach. *Agricultural Economics*, International Association of Agricultural Economists, vol. 44(6), pp. 723-734, November.

(with Moreno, M; Nopo, H; and Saavedra, J). (2012). Detecting Gender and Racial Discrimination in Hiring through Monitoring Intermediation Services: The Case of Selected Occupations in Metropolitan Lima, Peru. *World Development*, Volume 40, Issue 2, pp. 315-328, ISSN 0305-750X, <https://doi.org/10.1016/j.worlddev.2011.05.003>.

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(with Miguel Robles). (2010). Understanding the Impact of High Food Prices in Latin America. *Economía*, Volume 10, Number 2, Spring 2010, pp. 117-164

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(with Joachim von Braun). (2009). Exploring the Price Spike. *Choices*, 1<sup>st</sup> Quarter 2009, 24(1).

(with Eduardo Maruyama and Maribel Elias). (2009). Tipología de micro-regiones de las áreas rurales de Ecuador: Aplicaciones de fronteras estocásticas de utilidades agrícolas. *Finanzas Públicas*, Volumen 1, No. 2, Segundo Semestre del 2009.

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(with Lynne Zucker and Michael Darby). (2002). Labor Mobility from Academe to Commerce of U.S. Bio-Star Scientists. *Journal of Labor Economics*, 20 (3), pp. 629-60.

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### **Books**

(with M. Kalkuhl and J. von Braun). 2016. Food Price Volatility and its Implications for Food Security and Policy. Springer. <http://www.springer.com/us/book/9783319281995>

(with André Devaux, Jason Donovan, and Douglas Horton). 2016. Innovations for Inclusive Value-Chain Development. Successes and Challenges. IFPRI Book. October 2016.

(with Klaus von Grebmer, Claudia Ringler, Mark W. Rosegrant, Tolulope Olofinbiyi, Doris Wiesmann, Heidi Fritschel, Ousmane Badiane, Yisehac Yohannes, Jennifer Thompson, Constanze von Oppeln, Joseph Rahall). 2012. Global Hunger Index. The Challenge of Hunger: Ensuring Sustainable Food Security under Land, Water and Energy Stresses. IFPRI, Washington DC.

(with Klaus von Grebmer, Tolulope Olofinbiyi, Doris Wiesmann, Heidi Fritschel, Yisehac Yohannes, Constanze von Oppeln, and Lilly Schofield). 2011. Global Hunger Index. The Challenge of Hunger: Taming Price Spikes and Excessive Food Price Volatility. IFPRI, Washington DC.

(with Felipe Barrera-Osorio, Virgilio Galdo, Ernesto Schargrotsky, Sebastián Galiani, Martín González Rozada, Eduardo Nakasone, Alberto E. Chong, Elizabeth Coombs & Martín Gonzalez-Eiras). 2008. "Privatization for the Public Good?: Welfare Effects of Private Intervention in Latin America," IDB Publications (Books), Inter-American Development Bank, number 324 edited by Alberto E. Chong, August.

(with P. Arregui, E. Zegarra, V. Minaya, J. Escobal, C. Ponce, M. Glave, J. Kuramoto, L. Alcázar, M. Jaramillo, H. Ñopo, JJ. Díaz, N. Birdsall, R. Menezes, J. Deustua, M. Hernández, S. Cueto, M. Benavides, E. Pollit, J. León, M. Valdivia, N. Valdivia). 2007. Investigación, Políticas y Desarrollo en el Perú. Lima, GRADE, 668pp.

(with Joachim von Braun). 2006. Information and Communications Technology for Development and Poverty Reduction. Johns Hopkins University Press Series, Maryland.

(with Maria Victoria Murillo & Carmen Urizar H. & Jaime Saavedra-Chanduví & Naercio Aquino Menezes-Filho & Renato Ravina & Gabriela Fachola & Juan Sanguinetti & Elaine Pazello & Peter Kuhn & Sigfrido Lée ). 2005. "What Difference Do Unions Make?: Their Impact on Productivity and Wages in Latin America," IDB Publications (Books), Inter-American Development Bank, number 327 edited by Gustavo Márquez & Peter Kuhn, August.

(with Florencio López-de-Silanes, Pablo Serra, Paul Gertler, Ernesto Schargrotsky, Francisco Anuatti, Sebastián Galiani, Alberto E. Chong, Carlos Pombo, Federico Sturzenegger, Carlo Pombo). 2005. "Privatization in Latin America: Myths and Reality," IDB Publications (Books), Inter-American Development Bank, number 348 edited by Alberto E. Chong & Florencio López-de-Silanes, August.

(with Carolina Trivelli, Felipe Portocarrero, et.al). 2004. "Mercado y Gestion de Microcrédito en el Perú." Consorcio de Investigación Económica y Social, Lima, Peru.

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(with Orazio P. Attanasio, Miguel Székely, George Gray-Molina, Wilson Jiménez, Ernesto Pérez de Rada, Ernesto Yáñez, Marcelo Côrtes Neri, Edward Joaquim Amadeo, Alexandre Pinto Carvalho, Dante Contreras). 2001. "Portrait of the Poor: An Assets-Based Approach," IDB Publications (Books), Inter-American Development Bank, number 322 edited by Miguel Székely & Orazio P. Attanasio, August.

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### **Book Chapters**

(2021). "Robotics and AI in Food Security and Innovation: Why They Matter and How to Harness Their Power." In: Robotics, AI, and Humanity: Science, Ethics, and Policy. (2021). Editors: Joachim von Braun, Margaret S. Archer, Gregory M. Reichberg, Marcelo Sánchez Sorondo. Springer. (ISBN 978-3-030-54172-9). <https://doi.org/10.1007/978-3-030-54173-6>, pp. 99-107.

(with Eduardo Nakasone). (2019). Soap Operas for Female Micro Entrepreneur Training. In: Chong, Alberto. Information Technologies in Latin America, Anthem Press (forthcoming).

(2018). Fallas del mercado y la vinculación de las cadenas de valor de los pequeños agricultores a los mercados. In: Centro Internacional de la Papa (2018). SEPIA XVII Mesa Temática. Experiencias latinoamericanas de aplicación del enfoque de cadenas de valor inclusivas. Editores: Miguel Ordinola, Douglas Horton. Lima (Perú). Centro Internacional de la Papa. (ISBN 978-92-9060-489-1), Chapter 1, pp. 23-45.

(with Kalkuhl, M., J. von Braun). (2016). Volatile and Extreme Food Prices, Food Security, and Policy: An Overview. In: Kalkuhl, M., J. von Braun, M. Torero (2016). Food Price Volatility and its Implications for Food Security and Policy. Springer. (ISBN 978-3-319-28199-5). <http://www.springer.com/us/book/9783319281995>, Chapter 1, pp. 3-34.

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(with Carlos Martins-Filho). (2016). Relative Prices of Food and the Volatility of Agricultural Commodities: Evidence for a Panel of Developing Economies. In: Kalkuhl, M., J. von Braun, M. Torero (2016). Food Price Volatility and its Implications for Food Security and Policy. Springer. (ISBN 978-3-319-281995). <http://www.springer.com/us/book/9783319281995>, Chapter 11, pp. 239-268.

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(with Saenger, Christoph & Qaim, Matin). (2016). "Impact of third-party enforcement of contracts in agricultural markets — A field experiment in Vietnam," IFPRI book chapters, in: Innovation for inclusive value-chain development: Successes and challenges, Chapter 11, pp. 343-374 International Food Policy Research Institute (IFPRI).

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- (2010). Trade Policy: Implications for Agronomy. In: The International Dimension of the American Society of Agronomy: Past and Future, ed. Bill Payne and John Ryan, American Society of Agronomy. Madison, WI: American Society of Agronomy. pp.67.
- (with Marco Castillo and Ragan Petrie). (2009). "Ethnic and Social Barriers to Cooperation: Experiments Studying the Extent and Nature of Discrimination in Urban Peru." In: Ñopo, Hugo, Chong, Alberto, Moro, Andrea; (2009). Discrimination in Latin America. An Economic Perspective. Chapter 2, pp. 13-36. Inter-American Development Bank.
- (with J. Kuramoto). (2009). Public-Private Research, Development, and Innovation in Peru. In: Fueling Economic Growth: The Role of Public-Private Sector Research in Development, ed. M. Graha and J. Woo. Rugby, U.K. and Ottawa, Canada: Practical Action Publishing and International Development Research Centre.
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(with Javier Escobal, and Jaime Saavedra). (2001). Distribution, Access and Complementarity: Capital of the Poor in Peru In: Portrait of the Poor: An Assets-Based Approach. Orazio Attanasio y Miguel Székely (Eds.). Latin American Research Network IDB.

(with Juan Jose Diaz, and Jaime Saavedra). (2001). Liberalización de la Balanza de Pagos. Efectos sobre el Crecimiento, el Empleo y la Desigualdad y Pobreza. In: Ganuza, E; Paes de Barros, R; Taylor, L and Vos, R; (Eds.); Liberalización, Desigualdad y Pobreza: América Latina y el Caribe en los 90. Eudeba-Universidad de Buenos Aires, PNUD-Programa de Naciones Unidas para el Desarrollo, CEPAL.

(with Lynne Zucker, and Michael, Darby). (1999). Determinants of Embodied technology Transfer from Stars to Firms: Japan. In: Lynne G. Zucker, Takuma Takahashi, and Michael R. Darby; Knowledge Transfer in Biotechnology in Japan: Comparative Institutional Context and Commercial Success, Chapter 8, 48pp. Submitted for publication by the University of Chicago Press as a National Bureau of Economic Research volume.

### **Working Papers Submitted to Academic Journals**

(with Barron, Manuel). (2019). "Household Electrification and Labor Supply: Experimental Evidence from El Salvador." Submitted to The Quarterly Journal of Economics.

(with Castillo, Marco and Petrie, Reagan). (2019). "Causal Evidence that Perinatal Conditions Affect the Risk Preferences of Adults." Submitted to Journal of Political Economy.

(with Castillo, Marco and Petrie, Reagan). (2018). "The Long-Lasting Effects of Political Violence on Risk Preferences."

(with Pender, John). (2018). "Economic Impacts, Costs, and Benefits of Infrastructure Investment." A Review of the Literature. ERS.

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(with Castillo, Marco, Chenna Reddy Cotla, and Ragan Petrie). (2018). "Understanding the Risk Preferences of the Poor."

(with Nakasone, Eduardo). (2018). "Agricultural Extension through Information Technologies in Schools: Do the Cobbler's Parents go Barefoot?"

(with Manuel Barron). (2018). "Electricity Adoption and Household Energy Use: Experimental Evidence from Northern El Salvador."

(with Schuster, Monica & Delgado, Luciana). (2018). "The Reality of Food Losses: A New Measurement Methodology."

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(with Castillo, Marco, Roberto Mosquera Moyano, and Ragan Petrie). (2017). "Salience in the Field: Experimental Evidence of Attention Bias in Risk Tasks."

(with Miguel Almanzar). (2017). "Media Coverage and Food Commodities: Agricultural Futures Prices and Volatility Effects," Discussion Papers 264781, University of Bonn, Center for Development Research (ZEF).

(with Chong, Alberto, & Manuel Hernandez). (2016). "Privatization and Adverse Selection."

(with Chong, Alberto & Eduardo Nakasone). (2016). "Privatization and Discrimination."

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(with Almanzar, M and Nakasone, E). (2016). "Impact Evaluation of MCC Connectivity Project in El Salvador: The Northern Transnational Highway." Impacts estimates using Panel Data from 2009 to 2014. Millennium Challenge Corporation (MCC). Washington.

(with Barron, Manuel). (2015). "Fixed Costs, Spillovers, and Adoption of Electric Connections," MPRA Paper 63804, University Library of Munich, Germany.

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(with Castillo, Marco, and Ragan Petrie). (2011). “Beautiful or White? Discrimination in Group Formation,” November 2011.

(with Tanguy Bernard). (2011). “Randomizing the ‘Last Mile’: A Voucher-Based Approach to Impact Evaluation of Infrastructure Projects.”

(with Ramon Lopez). (2007). “Economic Growth, the Fiscal Sector, and Income Distribution.” World Bank.

### **Discussion Papers**

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### **Op-Eds**

A Post-War Playbook for a Post-COVID Recovery, *Project Syndicate*, December 9, 2020

Without Food, There Can Be No Exit from The Pandemic, *Nature*, April 23, 2020

How to Stop a Looming Food Crisis, *Foreign Policy*, April 14, 2020

### **Media Appearances**

AFP, AP, Bloomberg, BBC, CNN, CNN Spanish, The Economist, Foreign Policy, Freakonomics, The Guardian, The Hill, Huffington Post, The Independent, MacLean's, The New York Times, Newsweek, National Public Radio, Der Spiegel, Salon, Slate, The Washington Post, Wall Street Journal, El Mercurio (Chile), El Comercio (Peru), and several other outlets in Latin America, Africa, South Asia, East Asia, and Australia.

### **Recent Research Grants**

2015-2017 National Institute of Health (with Erica Field)

2016-2017 National Science Foundation (with Angelino Viceisza)

2014-2016 European Commission (EU\$ 2.5 million). Improving the Effectiveness of Policies and Strategic Investments in the Fertilizer Supply Chain for Some African Countries Taking into Account the Global- and Country-Level Market Structure and Constraints

2014-2016 European Commission (EU\$ 2 million). Assessing Regional Food Reserves to Increase Resilience: Their Role in Safety Nets and in Reducing Price Volatility

2014-2016 CGIAR Policy Institutions and Markets (US\$ 5 million).

2014-2016 USAID (US\$ 3 million). Latin American Strategy

- 2013-2016 European Commission (US\$ 4 million). Food security
- 2013-2016 Swiss Development Cooperation (US\$ 2.2 million). Food Security India
- 2013-2017 Millennium Challenge Corporation (US\$ 1 million). Impact Evaluation of Rural Electrification and Roads in El Salvador
- 2012-2015 DFID (US\$ 1 million). Aflatoxin and Child Stunting
- 2013-2014 IADB (US\$ 600K). Impact of Rust Coffee in Central America
- 2013-2014 CAF (US\$ 600K). Rural Development and Poverty Reduction in Andean Countries: The Case of Peru

## **Professional Experience**

### **Teaching**

- 1999- **Associate Professor** (Currently on leave). Universidad del Pacífico  
Economics Department, Postgraduate School.  
Industrial Organization and Uncertainty and Risk.
- 1994-1997 **Teaching Assistant**, Department of Economics, UCLA.  
Graduate Level Econometric Software Applications.  
Intermediate Microeconomics, Econometrics.
- 1990-1992 **Lecturer** Department of Economics, Universidad del Pacifico, Peru  
Intermediate Microeconomics.  
Economics Software Applications.

### **Research**

#### **Senior Researcher**

- 2019- *Food and Agriculture Organization of the United Nations (FAO)*  
Chief Economist
- 2016-2018 *The World Bank Group (WBG)*  
Executive Director for Argentina, Bolivia, Chile, Paraguay, Peru and Uruguay
- 2006-2016 *International Food Policy Research Institute (IFPRI)*  
Division Director of the Markets, Trade and Institutions Division
- 2010- *Center for Development Research, University of Bonn (ZEF)*  
Senior Fellow



- 2005-2006 *International Food Policy Research Institute (IFPRI)*  
Senior Research Fellow if the Markets, Trade and Institutions Division.  
Research on Infrastructure, and Institutions for rural development. Leader of a  
Global Research Project on Infrastructure and Institutions for Development for  
Africa, Latin America, Asia and South East Asia.
- 2003-2005 *International Food Policy Research Institute (IFPRI)*  
Research Fellow if the Markets, Trade and Institutions Division  
Research on infrastructure and institutions for rural development. Leader of a  
Global Research Project on Infrastructure and Institutions for Development for  
Africa, Latin America, Asia and South East Asia.
- 1997- *Group of Analysis for Development (GRADE)*  
- Member of the Board of Directors  
- Director of the Executive Management Committee
- 2001-2003 *Georg Foster von Humboldt Fellow*

### **Associate Researcher**

- 1998-2000 *Center for Development Research (ZEF)-University of Bonn (Invited Fellow)*
- 1994-2003 *Institute for Social Science and Research, University of California at Los Angeles*

### **Professional Associations and Advisory Councils**

Member of the American Economic Association (1998-today); the European Economic Association (1999-today); the Western Economic Association (1998-2000); the Econometric Society (1998-today); the Latin American Econometric Society (1998-today);the Latin American and Caribbean Economic Association (LACEA, from 1998-today);the Southern Regional Science Association (1998-today); the International Association of Agricultural Economics (2006-today) and of the American Agricultural Association (2006-today)

### **Awards**

- 2014 Chevalier de l'Ordre du M'erite Agricole
- 2002 Award for Outstanding Research on Development given by The Global Development Network (GDN). The selection committee was chaired by Nicolas Stern, and consisted of Francois Bourguignon, Mashiro Kawai, Nancy Birdsall, Jose Maria Fanelli y Fernando Loayza
- 2000 Award for Outstanding Research on Development given by The Global Development Network (GDN). The selection committee was chaired by Joseph E. Stiglitz, and consisted of Nancy Birdsall, Francois Bourguignon, Takatoshi Ito and Amartya Sen

- 2000-2001 Georg Foster Research Fellowship of the Alexander von Humboldt Foundation
- 1997-1998 University of California Dissertation Year Fellowship 1997-98
- 1997-1998 Ford Foundation-ISOP Interdisciplinary Program for Students of Development Areas
- 1996-1997 Latin American Center, UCLA Research Grant “Diffusion of Technical Change in Traditional Agriculture in Peru”
- 1996 Department of Economics, UCLA, Travel grant for diffusion of research
- 1995-1997 British Foundation Fellowship
- 1994-1997 Department of Economics, UCLA, Teaching Assistant Position
- 1992-1994 Fulbright Fellowship
- 1992-1995 Inter-American Development Bank Fellowship
- 1992-1994 Ford Foundation Fellowship
- 1992 National Award for the Best Bachelors Dissertation  
Peruvian Economic Consortium and IDRC, Canada
- 1990 Honorific Mention on Bachelors and Licenciatura Dissertations  
Universidad del Pacifico, Lima, Peru

### **Countries of Expertise**

***In Latin America:*** Bolivia, Costa Rica, Ecuador, El Salvador, Guatemala, Honduras, Jamaica, Nicaragua, Peru, Paraguay, Uruguay, Dominic Republic, Chile, Argentina, and Brazil

***In Central and Eastern Europe:*** Armenia, Kosovo.

***In Africa:*** Burkina Faso, Ethiopia, Ghana, Kenya, Malawi, Morocco, Nigeria, Niger, Togo, Senegal, Uganda, Tanzania, Mozambique, and Zambia.

***In Asia:*** Bangladesh, India, Vietnam and Cambodia

### **Languages**

English, Spanish, French (basic)

## **References**

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