

## MARITES M. TIONGCO

Full Professor 6

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Dr. Marites M. Tiongco is currently a Full Professor of the School of Economics at the De La Salle University in Manila, Philippines. Dr. Tiongco served as Dean of the School of Economics from May 2015 to September 2021. She is also a member of the Board of Trustees of the Philippine Economic Society (2021-2023), and currently serves as Treasurer. She is currently the Editor-in-Chief of the DLSU Business and Economics Review, a major academic journal of DLSU listed in SciVerse Scopus and abstracted and indexed in EBSCO and the Asean Citation Index (ACI), where she has served as Associate Editor for 8 years. Prior to that, I served as Associate Editor (since 2013 until September 30, 2022). She received her Ph.D. in Agricultural Economics and a B.Sc. in Applied Mathematics from the University of the Philippines Los Baños. Prior to joining DLSU, she served as a Research Fellow of the Markets, Trade and Institutions Division of the International Food Policy Research in Washington, D.C., USA. Her research work focus on human capital development including gender issues, poverty and inequality, job mismatch and labor market outcomes, and on the economics of agricultural development with emphasis on critical natural resources and policy issues as they affect food security, food and water safety along the value chain, market access of smallholder crop and livestock producers, agricultural health and productivity, climate change mitigation, adaptation, and resilience, and environmental sustainability. She has published over 40 articles and one of her papers was a 2018 Outstanding Scientific Awardee by the National Academy of Science and Technology (NAST). Her passion for research that matters to society gave her the opportunity to provide technical assistance to development agencies such as the Bill and Melinda Gates Foundation, the World Bank, DFID, FAO, IFAD, ADB, UNICEF, GCF, DA, DOST-PCHRD, PCC, SEARCA, PIDS and NEDA.

Her expertise in socio-economic surveys and econometric analysis of economic, food, and health security, and of crop and livestock productivity and market access for the poor has brought her to several countries in Asia (including Indonesia, India, Philippines, China, Uzbekistan and Vietnam) and across Sub-Saharan Africa (including Kenya, Ghana, Ethiopia, Mali, and Nigeria). url: [Marites M Tiongco - De La Salle University \(dlsu.edu.ph\)](http://Marites.M.Tiongco-DeLaSalleUniversity(dlsu.edu.ph))

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### FIELD OF EXPERTISE

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Agricultural Economics, Development Economics, Behavioral Economics, Applied Econometrics, Production Economics and Agricultural Marketing, and Socio-economic Survey Design and Data Management  
Impact Evaluation of Social and Human Development Projects/Programs  
Policy and Economic Development in Developing Countries, Value Chain Analysis  
Cost-Benefit/Cost-Effective Analysis/Risk Analysis[Food safety; Disaster]



## EDUCATION

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Ph.D. in Agricultural Economics, 2001

University of the Philippines Los Baños

Thesis Title: “Productivity Trends, Technological Progress, and Efficiency Changes in a Sample of Philippine Rice Farms”

Dissertation Committee: Chair: Dr. David Dawe (Policy and Trade); Members: Dr. Liborio Cabanilla (Economics), Dr. Isabelita Pabuayon (Policy and Economic Development), Dr. Nenita Tapay (Sociology)

M.S. in Agricultural Economics, 1993

University of the Philippines Los Baños

Thesis Title: “Measurement of Production Risk of Rice Farmers in the Rainfed Areas of Victoria, Tarlac”

Thesis Committee: Chair: Dr. Prabhu Pingali (Production Economics); Members: Dr. Corazon Aragon (Farm Management) and Dr. Flordeliza Lantican (Agricultural Marketing)

B.S. in Applied Mathematics, 1984

University of the Philippines Los Baños

Thesis: “Numerical Integration of Ordinary Differential Equations Using a New Predictor-Corrector Method”

Adviser: Prof. Wilfredo Lao

## COUNTRIES OF EXPERIENCE

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- In Asia and Southeast Asia: China, Indonesia, India, Philippines, Uzbekistan, Vietnam
- In East and West Africa: Ghana, Ethiopia, Kenya, Mali, Nigeria

## TRAININGS/STAFF DEVELOPMENT ACTIVITIES UNDERTAKEN

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- **Social Services for families, Seniors, and those with Disabilities**, February 20-28, 2022, by Columbia University, online course on understanding concepts that play a role in shaping policy decisions, health and mental health programs, and categories of social welfare. population, earnings, assets, and income. Course website: [Social Policy for Social Services & Health Practitioners | Coursera](#)
- **Data Analytics and Spatial Econometrics**, July 22-25, 2019, completed and earned 2.4 continuing education units (32 hours) on different techniques used to estimate spatial effects.
- **MITx-CITE101x: Technology Evaluation for Global Development, June 1-July 7, 2017**, six week online course of technology evaluation as it relates to poverty and international development; Course website: <https://courses.edx.org/courses/course-v1:MITx+CITE101x+2T2017/course/> , edEx Inc.
- **JPAL101x: Evaluating Social Programs Syllabus, October-November 9, 2016**, five week online course on evaluating social programs; Course website: <https://www.edx.org/course/evaluating-social-programs-mitx-jpal101x-4>  
Abdul Latif Jameel Poverty Action Lab (J-PAL)

**Decision-Making and Quantitative Risk Analysis using @RISK, Parts I & II (May 3-4; 24-25, 2010)**, Online Course, Palisade Corporation



- **Food Safety Risk Analysis Professional Development Training Program (March 2008-January 2009)**

Joint Institute for Food Safety and Applied Nutrition

University of Maryland, 0220 Symons Hall

College Park, MD 20742

Completed and earned 8.4 continuing education units for the following courses (distance learning): Food Safety Risk Management, Food Safety Risk Communication, Food Safety Risk Assessment, and Qualitative and Quantitative Food Safety Risk Assessment.

#### **AWARDS RECEIVED**

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**March 8, 2023—Gawad Lasalyano Award** – De La Salle University award for Service Merit for the services rendered to the Lasallian Social Enterprise for Economic Development (LSEED) Center.

**July 12, 2018—National Academy of Science and Technology** award for Outstanding Scientific Paper Award for the paper entitled “Making Social Health Insurance and Micro-savings Programs work for the informal Sector in the Philippines”

#### **EMPLOYMENT EXPERIENCE**

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**October 2021 – present – Full Professor 6, School of Economics, De La Salle University, Manila, Philippines**

**September 2021 – present - Consultant, Persons with Disability Affairs Office, City of Santa Rosa, Laguna, Philippines**

**September 2018-Oct 2021 Full Professor 5, School of Economics, De La Salle University, Manila, Philippines**

**May 2015 to September 2021- Dean, School of Economics, De La Salle University, Manila, Philippines**

**September 2016- August 2018 Full Professor 2, School of Economics, De La Salle University, Manila, Philippines**

**June 2013- July 2015 –Research and Advanced Studies Director (RASD), School of Economics, De La Salle University, Manila Philippines**

**June 2012-June 2016 Associate Professor 5, School of Economics, De La Salle University, Manila, Philippines**

- As faculty member, I teach Principles of Economics, Contemporary National Development, Economic Development, Mathematical Economics, Econometrics, and Principles of Agricultural Economics and Agribusiness to undergraduate students of the School of Economics (SOE) and College of Business. I also teach Health Economics to graduate students of the College of Liberal Arts. As Dean of the School of Economics (from May 2015 to September 2021), I am responsible for overseeing teaching and research functions of the SOE. I am also responsible for managing financial and other resources to stimulate and maintain teaching excellence and rigorous research in the SOE. I also serve as Editor-in-Chief (since October 1, 2022) of the DLSU Business and Economics Review, a major academic journal of DLSU listed in SciVerse Scopus and abstracted and indexed in EBSCO. Prior to that, I served as Associate Editor (since 2013 until September 30, 2022). As researcher, I develop proposals related to priority research areas of DLSU (research issues related to food security and food systems, climate change and environment sustainability, higher education, gender empowerment, and youth at risk). I am engaged in capacity building on these priority areas and impact assessment and evaluation of social development projects and programs. I also served as SOE's Research and Advanced Studies director from June 2013-July 2015 and I was responsible for the research strategic planning of SOE.

**November 2012-June 2015 Agriculture Sector Specialist, ADB's Capacity Development Technical Assistance for Strengthening Public-Private Partnerships (PPP) in the Philippines, NEDA sa QC, EDSA, Diliman, 1103 Quezon City, Philippines**

- As Agriculture Specialist, my scope of work are 1) to provide relevant advice on agriculture sector issues on PPP projects and PPP-enabling environment to the PPP Center and line-agencies advise the PPP Center on specific PPP agricultural projects presented to the Project Development and Monitoring Facility (PDMF) that is administered by the PPP Center (PPPC). The work involves evaluation of projects in (i) agricultural production and irrigation systems, (ii) agricultural logistics, cold storage and supply chain, (iii) agricultural in/output markets and land issues, (iv) government support mechanisms/schemes/institutions to the agricultural sector; and 2) to prepare or review terms of reference for pre-investment studies, and for transaction advisory services review of project concept notes, prefeasibility studies, feasibility studies and technical inputs into bid documents and assistance in evaluation of bids and contract management, if needed.



**June 2010-June 2011     Adjunct faculty, Department of Economics, College of Economics and Management, University of the Philippines Los Baños (UPLB)**

- Team-teach Basic Econometrics to graduate students of the College during the First Semester, SY 2010-2011

**June 2009-October 2012 Research Fellow, Markets, Trade and Institutions Division (MTID), International Food Policy Research Institute (IFPRI), Washington, D.C., U.S.A.**

**April 2006 – May 2009     Postdoctoral Fellow, MTID, IFPRI, Washington, D.C., U.S.A.**

- Provide technical support to the leader of IFPRI's Food and Water Safety Theme (Global Research Program (GRP) 40) in developing, managing and implementing a portfolio of research projects identified related to the following research areas: dynamic relationship between food and water safety and food security, and how these relationships can be influenced through appropriate institutional mechanisms and technologies to mitigate food and water borne hazards; pro-poor cost-effective disease control strategies to reduce food safety hazards so as to facilitate and enhance poor's access to markets and livelihoods; public-private partnerships and other institutional arrangements that best address the food and water safety and quality concerns of the poor; impact assessment of the uptake of food safety interventions on food security, health and nutrition; knowledge and technologies for the control of zoonotic, food-borne, water-borne diseases; and cost of compliance of increased food safety standards on smallholders.
- Conduct empirical research and econometric analysis on crop/livestock market access for the poor and the changing demand for food safety of high value products along the value chain, in collaboration with the food safety team of IFPRI and researchers from national agricultural research centers and universities.
- Provide technical inputs to survey design including sampling methods, and to quantitative and qualitative data analysis to components of multi-disciplinary projects related to value chain analysis, cost-benefit and cost-effective analysis, risk assessment and analysis, bio-economic modeling, institutional analysis, and livelihood analysis. Also provide technical support to the Theme leader and other researchers of the Food and Water Safety Theme, in support of MTID's fund-raising, publication, and research objectives.
- Produce peer reviewed analytic reports from studies/projects conducted.
- Publish research results in peer-reviewed scientific journals and communicate research findings through briefs, presentations in international conferences, and media.
- Develop concept notes and proposals in strategic research areas of the Markets, Trade, and Institutions Division, and IFPRI as a whole.
- Contribute to the capacity building of collaborators in national agricultural research centers, universities, and government agencies.

**September 2002 – March 2006     Research Analyst, MTID, IFPRI, Washington, D.C., U.S.A.**

- Conducted empirical analysis through data acquisition and documentation, data cleaning, processing and quantitative data analysis, including various forms of econometric estimation and policy analysis, and preparing reports.
- Wrote scientific papers and present them in workshops and conferences (local and international).



- Coordinated, monitored and evaluated activities with a variety of collaborative projects between IFPRI and national and international partners collaborating on IFPRI's GRP 27 "Participation in High-Value Agricultural Markets", ILRI-IFPRI Joint Program on Livestock Market Opportunities, and GRP 40.
- As lead researcher, provided technical inputs on sampling and methodological frameworks, designing survey instruments, and coordinated, monitored and followed-up project activities for smooth implementation of the FAO/IFAD project on Contract Farming of Milk and Poultry in India.
- Organized and monitored household surveys, focus group discussions, and outreach activities for the projects on Contract Farming of Milk and Poultry in India and on Contract Farming of Swine Production in North Vietnam.
- Developed partnership with collaborators and provide them with technical support to enhance their capacity to conduct research.
- Prepared progress reports for the projects under the ILRI-IFPRI Joint Program.
- Assisted in writing proposals related to high-value agricultural markets covered by GRP 27, GRP 40 and the ILRI/IFPRI Joint Program on Livestock Market Opportunities, particularly on fruits, vegetables, livestock and dairy product markets.

**January 1998 – September 2002      Assistant Scientist II, International Rice Research Institute, Los Banos, Laguna, Philippines (started as Assistant Scientist I)**

- Carried out empirical analysis through data acquisition and documentation; econometric analysis and report preparation related to productivity and efficiency changes of intensive irrigated rice systems in Asia; provided training and guidance to collaborators in terms of data collection, documentation, and statistical analysis.
- Involved in data collection and analysis of a study on the impact assessment of microcredit project in the Philippines targeted to poor rural women, CARD Bank, Inc. (Center for Agricultural Rural Development, Inc.) which is a replication of the Bangladesh Grameen Bank model in Bangladesh.

**January 1997 – January 1998      Senior Research Assistant, International Center for Living Aquatic Resources and Management (ICLARM) (now WorldFish), Makati, Philippines**

- Provided research assistance for socioeconomic analysis of freshwater capture fisheries in Cambodia, demand assessment of bangus fry in the Philippines, impact assessment of production and marketing of inland fisheries products in the Philippines, and design of survey questionnaires for the fisheries management and socioeconomic issues of selected reservoirs in the Central Highlands of Vietnam.

**May 1994 – December 1996      Research Assistant, International Rice Research Institute, Los Banos, Laguna, Philippines**

- Designed and conducted survey, and provided technical support for the impact assessment of a non-government organization engaged in micro-credit (a replication of Grameen Bank's micro-credit program); Conducted survey and data analysis on rice technology, income distribution and poverty in the Philippines; Provided research assistance for data collection, econometric analysis of rice production growth under increasing resource constraints as well as on the evaluation of potential gains from rice research, and for policy analysis of agricultural commodities.



**July 1991- March 1992 Graduate Assistant, International Rice Research Institute, Los Banos, Laguna, Philippines**

- Provided research assistance for literature reviews and statistical analysis of high yielding rice varieties in Asia.

**July 1990 – April 1992 Research Assistant, Sarmiento Research and Development Corporation, Makati, Philippines**

- Provided technical support in the preparation of project proposals and appraisals, feasibility studies, project reports, and training modules.

**July 1987-October 1990 Instructor, University of Eastern Philippines, Catarman, Northern Samar, Philippines**

- Taught mathematics subjects such as Trigonometry, Algebra, Calculus, and Statistics to Math major students.

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**PUBLICATIONS**

***Published as Journal article:***

Santos, M. G., M. Tiongco, A. Inocencio, and C. Cororaton. (forthcoming). Rice Buffer Stock Maintenance Post-Rice Tariffication Law (RA11203): An Application of a Partial Equilibrium model for Buffer Stock Level Optimization. DLSU Business and Economics Review. January 2024.

Magno, F. M.E. Oplas, & M. Tiongco. (forthcoming). Educating Children in Conflict Zones: the Role of Peace and Development Programs. DLSU Business and Economics Review. January 2024.

Yamauchi, F., T. Kim, K. W. Lee, & M. Tiongco. (2023). Can German Vocational Training Combat Skill Shortages in Developing Countries? Evidence from Dual Training System in the Philippines. Review of Development Economics, Vol. 27, Issue 4, 2470-2488, (November 2023). <https://doi.org/10.1111/rode.13047>. First Published: 24 August 2023.

Bautista, A.P., A.B. Mataia, C.P. Austria, M. M. Tiongco, and A.G. Laborte. 2023. Adoption and Performance of Direct-seeded Rice (DSR) Technology in the Philippines. Philipp J Sci 152(2): 459–484. February 2023.

Conchada, M. I. P, M. Tiongco, and D.H. Sy. (2022) Investigating the Impact of a Conditional Cash Transfer on Adolescent Pregnancy: Incidence and Health Outcomes. DLSU Business and Economics Review. July 2022. Vol. 32(1) Pp. 56-71, Manila: DLSU Publishing House. ISSN 0116-7111. <https://www.dlsu.edu.ph/wp-content/uploads/2021/04/5yamauchi-041121.pdf>

Dodd, W., Kipp, A., Lau, L., Little, M., Conchada, M., Sobreviñas, A., & Tiongco, M. (2022). Limits to Transformational Potential: Analysing Entitlement and Agency within a Conditional Cash Transfer Program in the Philippines. Social Policy and Society, 1-18. Cambridge University Press, May 20, 2022. doi:10.1017/S1474746422000215. ISSN: 1475-3073 (online)



- Okely, Anthony D, John J Reilly, Mark S Tremblay, Katharina E Kariippanon, Catherine E Draper, Asmaa El Hamdouchi, Alex A Florindo, Janette Green, Guan Hongyan, Peter T. Katzmarzyk, Himangi Lubree, Bang Nguyen Pham, Thomas Suesse, Juana Willumsen, Ellie K Taylor, Kar-Hau Chong, Laura Smeets, Maria Nacher, Mohamed Basheer, Penny L Cross, Rebecca Calleia, Chalchisa Abdeta, Nicolas Aguilar-Farias, Aqsa Baig, Jambaldorj Bayasgalan, Cecilia H S Chan, Prasad Chathurangana, Michael Chia, Fazlollah Ghofranipour, Amy S Ha, Mohammad Sorowar Hossain, Xanne Janssen, Alejandra Jáuregui, Piyawat Katewongsa, Dong Hoon Kim, Thanh Van Kim, Denise Koh, Anna Kontsevaya, Germana Leyna, Marie Löff, Nyaradzai Munambah, Tawonga Mwase-Vuma, Jackline Nusrupia, Aoko Oluwayomi, Jesus del Pozo Cruz, Borja del Pozo Cruz, Eva Roos, Asima Shirazi, Pragya Singh, Amanda Staiano, Adang Suherman, Chiaki Tanaka, Hông Kim Tâng, Wei-Peng Teo, **Marites Tiongo**, Dawn Mahube Tladi, Ali Turrab, Sanne Veldman, E. Kipling Webster, Pujitha Wickramasinghe, Dyah Anantalia Widyastari. *A cross-sectional examination of 24-hour movement behaviours among 3-4 year-old children in urban and rural settings in low-, middle-, and high income countries: The SUNRISE Study Protocol*. 2021. *BMJ Open*. October 25, 2021;11:e049267. BMJ Publishing Group. doi:10.1136/bmjopen-2021-049267 SCImago Journal Rank (SJR): 1.247.
- Yamauchi, F. and M. Tiongo. (2021). Tracking of School to Work Transition among the Youth in the Philippines. *DLSU Business and Economics Review*. January 2021. Vol. 30(2) Pp 61-79, Manila: DLSU Publishing House. ISSN 0116-7111. <https://www.dlsu.edu.ph/wp-content/uploads/2021/04/5yamauchi-041121.pdf>
- Conchada M.I.P., D.H. Sy, M. Tiongo, and A. R. Paloyo. 2019. Recent Trends in the Gender Gap in the Labor Market in the Philippines. *The Philippine Review of Economics*, June and December 2019: Vol. 56 Nos. 1&2. pages 173-186. ISSN 1655-1516. (a peer-reviewed journal, indexed in the Journal of Economic Literature and EconLit). <https://pre.econ.upd.edu.ph/index.php/pre/article/view/984/882>
- Javier, R., M. Tiongo, and M. Jabar. 2019. How Health Literate are the iGeneration Filipinos? Health Literacy among Filipino Early Adolescents in Middle Schools. *Asia-Pacific Social Science Review*. September 2019 Special Issue. Pp 16-29. Manila: DLSU Publishing House. ISSN 0119-8386. <http://apssr.com/wp-content/uploads/2019/09/RA-2-1.pdf>
- Contillo, G. and M. Tiongo. 2019. Determinants of Adoption of the Rice Crop Manager System among Farmers in Pangasinan, Philippines, 2019 IEEE 11th International Conference on Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment, and Management (HNICEM), 2019, pp. 1-6, doi: 10.1109/HNICEM48295.2019.9072690, ISBN: 978-172813044-6.
- Inocencio, A., K. Yoshinaga, M. Tiongo, and A. Manalang. 2018. Exploring the Potential of PPP in Philippine Irrigation. *DLSU Business and Economics Review*. April 2018 Special Issue. Pp 18-30. Manila: DLSU Publishing House. ISSN 0116-7111
- Cororaton, C., M. Tiongo, A. Inocencio, A. Manalang and A. Lamberte. 2018. Climate Change, Food Availability, and Poverty: The Case of Philippine Rice. *DLSU Business and Economics Review*. April 2018 Special Issue. Pp 70-83. Manila: DLSU Publishing House. ISSN 0116-7111





- Conchada M.I.P., M. Tiongco, P. Castillo, and D. Edralin. 2017. Evaluating Government Programs for Enhancing the Welfare of the Youth towards Entrepreneurship. *DLSU Business and Economics Review*. July 2017 Vol. 27, No. 1. Pp 59-71. Manila: DLSU Publishing House. ISSN 0116-7111. <http://dlsu-ber.com/wp-content/uploads/2018/03/3conchada-et-al-072617.pdf>
- Conchada, M.I. P. and M. Tiongco. 2017. Making Social Health Insurance and Micro-Savings Programs Work for the Informal Sector in the Philippines. *DLSU Business and Economics Review*. July 2017 Vol. 27, No. 1. Pp 107-123. Manila: DLSU Publishing House. ISSN 0116-7111. <http://dlsu-ber.com/wp-content/uploads/2018/03/7Conchada-Tiongco-072617.pdf>
- Cororaton, C., A. Inocencio, A. M. Tiongco, and B. Siriban-Manalang. 2016. Quantifying the Potential Economic and Poverty Effects of the National Greening Program. *DLSU Business and Economics Review*. July 2016 Vol. 26.No. 1. Pp. 136-170. Manila: DLSU Publishing House. ISSN 0116-7111
- De Groote, H., C. Narrod, S. Kimenju, C. Bett, R. Scott, M. Tiongco, and Z. Gitonga. 2016. Measuring rural consumers' willingness to pay for quality labels using experimental auctions: the case of aflatoxin-free maize in Kenya. *Agricultural Economics*, Vol 47, Issue No. 1, pp 33-45. Article first published online: 24 DEC 2015 | DOI: 10.1111/agec.12207. John Wiley & Sons, Inc. Online ISSN: 1574-0862. Impact Factor: 1.193; ISI Journal Citation Reports—Ranking: 2014: 6/17 (Agricultural Economics & Policy; 111/333 (Economics). <https://onlinelibrary.wiley.com/doi/abs/10.1111/agec.12207>
- Cororaton, C., A. Inocencio, A. B. Siriban-Manalang, and M. Tiongco. 2015. A Conceptual Framework for Estimating the Impact of Climatic Uncertainty and Shocks on Land Use, Food Production, and Poverty in the Philippines. *DLSU Business and Economics Review*. January 2015 Vol. 24.No. 2, pp. 13-32. Manila: DLSU Publishing House. ISSN 0116-7111
- Narrood, C., M.Tiongco, G. Mahuku, H. de Groote, J. Hellin, C. Bett, H. Nzioki, S. Collins, S. Guantai, F. Waliyar, J. Ndjeunga, D. Bamory, K. Ondie, D. Lamissa, P. Masuoka, and F. Wu. 2013. No chance for Aflatoxins. In *Food Losses* (03.04.2013). Rural21: The International Journal for Rural Development. <http://www.rural21.com/english/news/detail/article/no-chance-for-aflatoxins-0000656/>
- Yamauchi, F., and Tiongco, M. 2012. Why Women are Progressive in Education? Gender Disparities in Human Capital, Labor Markets and Family Arrangement in the Philippines. *Economics of Education Review* 32 (2013) 196– 206. <http://dx.doi.org/10.1016/j.econedurev.2012.09.003>. ISSN: 0272-7757. Also published as IFPRI Discussion Paper 1155. IFPRI, Washington, DC. <http://www.ifpri.org/sites/default/files/publications/ifpridp01155.pdf>
- Narrood, C., J. Zinsstag, and M. Tiongco. 2012. A One Health Framework for Estimating the Economic Costs of Zoonotic Diseases on Society. *EcoHealth*. Vol 9(2). Pp 150-162. DOI: 10.1007/s10393-012-0747-9. ISSN: 1612-9202(Print); 1612-9210(Online).
- Lapar M. L, Tiongco, M. 2011. Private standards in pork value chains: role, impact, and potential for local innovation to improve food safety and enhance smallholder competitiveness. *Farm Policy Journal*. Vol 8(3). Pp 39-53. Australian Farm Institute.



- Narro, C., M. Tiongco, and R. Scott. 2011. Current and predicted trends in production, consumption and trade of live animals and their products. Special Issue of the Spread of Pathogens through International Trade. Current and Predicted Trends in the Production, Consumption and Trade of Live Animals and their Products. *Revue Scientifique et Technique - Office International des Epizooties (OIE Scientific and Technical Review)* 30(1): 31-49. ISSN: 0253-1933(Print); 1608-0637 (Electronic).
- Akunzule, N.A., E. Koney, and M. Tiongco. 2009. Economic impact assessment of HPAI on the poultry industry in Ghana. *World's Poultry Science Journal*, Vol. 65(3), September 2009. Pp.517-527. ISSN: 0043-9339;EISSN: 1743-4777
- Birthal, P.S., A. K. Jha, M.Tiongco, and C. Narrod. 2009. Farm-Level Impacts of Vertical Coordination of the Food Supply Chain: Evidence from Contract Farming of Milk in India. *The Indian Journal of Agricultural Economics*, Vol 64(3). Pp 481-496. ISSN: 00195014
- Delgado, C., N. Minot, and M. Tiongco. 2005. Evidence and Implications of Non-Tradability of Food Staples in Tanzania 1983-1998. *Journal of Development Studies*. Vol 41, No. 3, April 2005, 376-393. Routledge , U.K. DOI: 10.1080/0022038042000313291. ISSN 0022-0388 (Print), 1743-9140 (Online). (Also published in IFPRI as an MTID Discussion Paper #72, July 2004).
- Tiongco, M. and D. Dawe. 2002. Long-term Evolution of Productivity in a Sample of Philippine Rice Farms: Implications for Sustainability and Future Research. *World Development*, Vol.30, No. 5, May 2002, 891-898. ISSN: 0305-750X
- Published as Book Chapter:**
- Tiongco, M. and E. Barnedo 2021. Assessment of the Socio-economic Impacts of COVID-19 Pandemic on Persons with Disability: a Pilot Study. Chapter 5 in *Narratives and Knowledge in the Midst of COVID-19 Lockdown: Research into our Future*. DLSU Publishing House, Manila.
- Tiongco, M. 2019. Local Health System's Financing and it's Challenges. Chapter 3 in *Revving Up Research Innovations for Social Development: Methods and Perspectives*. DLSU Publishing House, Manila.
- Tiongco, M. 2018. Adaptation and Mitigation Strategies. Chapter 7 in *The Future of Philippine Agriculture under Climate Change: Policies, Investments, and Scenarios*. Eds. Mark Rosegrant and Mercedita Sombilla. ISEAS – Yusof Ishak Institute / NEDA / CCAFS / PIM. 590 pages.
- Avendaño, B, C. Narrod, and M. Tiongco. 2013. The Role of Public-Private Partnerships on the Access of Smallholder Producers of Mexican Cantaloupe to Fresh Produce Export Markets. Chapter 4, Part I in “Improving Import Food Safety” eds. By Lorna Zach, Wayne Ellefson and Darryl Sullivan. IFT Press, Wiley-Blackwell, John Wiley & Sons (368 pages). ISBN: 978-0-8138-0877-2. Pp. 65-85. Based on a paper presented at the conference on Food import safety: systems, infrastructure, and governance, University of Wisconsin-Madison, May 26-27, 2009.
- Chenevix-Trench, P., C. Narrod, D. Roy, M. Tiongco. 2012. Responding to Health Risks Along the Value Chain. Chapter 11 in “Reshaping agriculture for nutrition and health,” edited by Shenggen Fan and Rajul Pandya-Lorch. IFPRI, Washington, D.C. pp. 93-102. <http://www.ifpri.org/sites/default/files/publications/oc69ch11.pdf>. ISBN: 978-0-89629-673-2.



- Tiongco, M., Narrod, C., M. Kobayashi, R. Scott, and J. Omiti. 2012. Understanding knowledge, attitude, perceptions, and practices for HPAI risks and management options among Kenyan poultry producers. In Chapter 15 of the book on Health and Animal Agriculture in Developing Countries, Natural Resource Management and Policy (36), edited by David Zilberman, Joachim Otte, David Roland-Holst, and Dirk Pfeiffer. Springer New York and The Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, 00153 Rome, Italy. pp. 281-304. *ISBN: 978-1-4419-7076-3 (Print) 978-1-4419-7077-0 (Online)*.
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*M. Tiongco*

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## PROJECTS/ COMMISSIONED WORK

**Accelerating adoption of climate-resilient agricultural production systems through Integrative Landscape Approach for managing climatic Risks (PILAR) (October 2023-April 2025)**, Agriculture and Economics Expert, funded by the Global Climate Fund (GCF), implemented by Eco Ltd.

PILAR aims to build the resilience of agriculture landscapes in the Philippines by addressing the financial and technical barriers to scaling climate resilient agriculture (CRA) and identifying transformational livelihood pathways for approximately 3.5 million people. CRA reflects an ambition to improve the integration of agriculture development and climate responsiveness. PILAR will also catalyze a transformational shift within the LANDBANK's ability to invest in CRA in the Philippines. It will focus its interventions in the three important river basins in Pampanga, Bicol and Agusan.

**Sectoral Strategy Studies in the Philippines for Public-Private Partnership Models in Agriculture - Food Supply Chain and Digital Governance (December 2022-October 2023)**, Team Leader/Agribusiness/Supply Chain Specialist, commissioned by the Foreign, Commonwealth & Development Office (FCDO), implemented by Orient Integrated Development Consultants, Inc. (OIDCI)

My responsibilities are to: a) provide over-all technical direction and supervision of project activities and deliverables; b) Lead in the conduct of desk review, analysis of data, consolidation of recommendations, and finalization of all deliverables; c) Spearhead the preparation of the secondary/primary data gathering tools/guides/templates; d) Lead and train research associates in the conduct of key informant interviews/FGDs among agencies, LGUs and other stakeholders identified for the two sectors.

**Policy Advice for COVID-19 Economic Recovery in Southeast Asia–Philippine Development Plan (54219-001) (September 16,-December 30, 2022)**, Food Security Expert, funded by the Asian Development Bank (ADB), implemented by NEDA

The National Economic and Development Authority (NEDA) is spearheading the whole-of-government process for the formulation of the **Philippine Development Plan (PDP) 2023 to 2028**. The PDP shall provide a roadmap towards sustained and inclusive growth amidst post-COVID-19 pandemic challenges and other shocks. It will lay down specific targets, major strategies, and key policy reforms to support the achievement of the goals under the 2030 Agenda for Sustainable Development and the Philippine long-term vision dubbed 'AmBisyon Natin 2040'. I am responsible for the writing of **Chapter 3.1 on Ensuring Food Security and Proper Nutrition**. My tasks consist of formulating the analytical framework, writing the assessments, and proposed targets and strategies, including priority reforms or legislative agenda, and participation in public consultations and inter-agency meetings, providing technical inputs and preparing the necessary presentation materials, processing and documenting the inputs from the consultations.



**Supporting the 8-point Agenda with Evidence-based Research**, Congressional Research Fellow, funded by the House of Representatives (HREP), and implemented by the Ateneo de Manila University, Department of Economics, and Ateneo Center for Economic Research and Development (ACERD)

The main objective of the project is to aid and provide the legislative body with evidence-based research and data that will allow for the formulation and enactment of appropriate and timely policies. My main responsibility is to provide HREP with technical information that facilitates the creation of laws protecting the purchasing power of families through ensuring food and nutrition security. The specific objectives are to: a) Examine the dynamics between high food prices and nutrition and food security, and welfare effects of high food prices of key commodities; b) Determine the impacts of high food prices and price risks that affect household food and nutrition security; c) Determine what are the effects of the different non-tariff measures in achieving food security in the Philippines; d) Analyze what are the possible policy implications of the context-specific factors to lower food prices.

**Interrogating different pro-poor policy approaches in the context of intersecting social-ecological crises in the Philippines** (April 15, 2022-September 2023) Co- Investigator for the Philippines

This research is a collaborative work with the School of Public Health and Health Systems-University of Waterloo (Dr. Warren Dodd, and Dr. Craig Janes), Department of Anthropology (Dr. Jennifer Liu), International Care Ministries (Dr. Lincoln Lau), and School of Economics-De La Salle University (Marites Tiongco).

The goal of this research is to investigate how these different policy approaches that are intended to improve health and reduce poverty are operationalized by policy influencers and experienced by beneficiaries in the context of intersecting social-ecological crises. With gender considerations central to our research design, and guided by vulnerability and resilience frameworks, this project has three interrelated objectives:

1. To conduct key informant interviews with social service providers and policy influencers to analyze narratives surrounding different approaches to pro-poor policy among service providers and policy influencers in the Philippines. Attention will be given to the connections between policy approach (i.e., universal or targeted), social-ecological crises, health, and poverty alleviation.
2. To combine participatory and qualitative methods with individuals experiencing poverty to investigate the uneven distribution of the purported benefits of different pro-poor policies in the Philippines in the context of intersecting social-ecological crises.
3. To mobilize knowledge among key stakeholder groups through targeted workshops and scenario planning activities to co-generate recommendations and actions to enhance the ability of pro-poor policy approaches to contend with intersecting social-ecological crises.

**Impact Evaluation of Telemedicine Program in the Philippines – Phase I: Proposal Development** (September 15, 2022-December 15, 2022) Principal Investigator for the Philippine Team, funded by the International Initiative for Impact Evaluation (3iE)



This impact evaluation study is a consortium of 4 institutions led by the University of Hannover (Dr. Arndt Reichert), University of Passau (Michael Grimm, Ann-Kirstin Reitman), University of Wollongong (Alfredo Paloyo), and De La Salle University.

The impact evaluation study aims to address the research question on how effective the government efforts are to achieve universal health care thru the telemedicine program. For Phase 1 (first 8 months), the Philippine team is responsible for the pre-analysis plan using mixed methods of evaluation designs, conduct interviews for qualitative data, and provide inputs and technical assistance in writing the baseline report. For Phase 2, the Philippine Team is responsible for the data collection of relevant indicators based on the theory of change and impact evaluation design developed in Phase 1.

**Addressing context-specific barriers to female labor force participation in decent work: A multi-country, mixed-methods, gender-sensitive analysis** (March 1, 2022-February 28, 2024), Project Team Leader for the Philippine Case Study, funded by the Partnership for Economic Policy (PEP)

The study involves 5 countries: Brazil, Kenya, Peru, Philippines, and Senegal, with following objectives: 1) identify gaps in labor market policy, knowledge and capacity, 2) understand causes and consequences of context-specific barriers to FLFP in the Philippines and be able to use that knowledge to advocate for policy changes to reduce /remove the barriers; 3) provide evidence-based pathways that can improve gender equality in the labor market.

**Mapping and Roadmapping of Visual Arts, Performing Arts, Gastronomy, and Heritage Cultural Sectors** (August 16, 2021-January 30, 2022 (Phase I); November 2022-March 2023 (Phase II)), Project Team Member (Research Associate for the Performing Arts Subsector, and Heritage Subsector), funded by the Creative Economy Council of the Philippines for the National Commission for Culture & the Arts.

The study is commissioned by CECP to 1) Formulate Operational Definitions of these sectors, with clear guidance of what should be counted within Philippine Culture Statistics and which should not; 2) Provide estimates on the number of registered establishments in these sectors, their added value and employment contribution based on available national level statistics from PSA's Census for Philippine Business and Industry (CPBI), and the Annual Survey of Philippine Business and Industry (ASPBI); 3) Map establishments in these cultural sectors based on their role in the Creative Value Chain (Origination, Production, Distribution, Education & Training, Archiving & Preserving, Equipment & Supporting Materials, etc.); 4) Pilot and recommend primary data gathering instruments for measuring the informal establishments, value added and employment especially for the micro businesses and freelancers not covered by the CPBI and ASPBI surveys; 5) Develop a Data Driven Roadmap of Recovery and Growth working with the key stakeholders of the respective sectors (government agencies, business support organizations, artists cooperatives, NGOs, etc.).

**Building capacity on promoting economically and environmentally efficient rice production through direct-seeded rice (TCP/RAS/3802)**, Consultant under **IRRI Sustainable Impact through Rice-based Systems Platform**, (December 16, 2021-April 30, 2023), funded by FAO, and implemented by IRRI



My responsibilities are to: a) Conduct desk review and analysis of the status of rice establishment systems in the Philippines, Cambodia, and Myanmar; b) Collect relevant data for the Philippines and coordinate with national consultants and project staffs of IRRI from Cambodia and Myanmar for the collection of information on the gaps, performance, constraints, and opportunities of the transition to a more sustainable and efficient DSR system from the perspectives of policy, natural resources, socioeconomic, and climate change; c) Draft preliminary report on the status, gaps, performance, and constraints on rice establishment systems in the Philippines, Cambodia and Myanmar; d) Develop 3 country specific reports/strategy documents covering the current status of DSR, key drivers and constraints for adoption, DSR performance (agronomic and environmental), and strategies on wide-scale adoption of DSR in coordination with the IRRI Project Team (and country team leaders in the Philippines, Cambodia and Myanmar).

**Development of an Economic White Paper for the Local Food and Beverage Industry** (July 1, 2021-December 30, 2021), Project Team Leader, funded by the Philippine Chamber of Food Manufacturers, Inc.

The study is commissioned by PCFMI to 1) develop strong localized arguments, talking points, and positive key messages that will resonate with the economic agencies to position the whole F&B industry as a partner for economic growth, recovery, and development and is deserving of incentives and support from the government; 2) empower allies of the industry to aid them in public discourse on industry incentives and support; and 3) build the identity of the whole F&B industry in the country as an economic partner of the government.

**Potential Fraud Index on Claims for Years 2015-2020. Determining Financial Costs of Fraudulent Claims and Formulating a Fraud Index** (May 1, 2021-December 30, 2021), Co-Investigator, funded by DOST-PCHRD.

The study is commissioned by DOST-PCHRD, implemented by the Center for Business Research and Development (CBRD), DLSU with the following objectives: 1) to determine the extent of fraud payments made by PhilHealth for benefits claims, and 2) to track and analyze the state of fraudulent claims for 2019-2020. My main responsibilities are to 1) Analyze past fraud (flagged for investigation, undergoing investigation and successful investigations) against digital database of claims; 2) identify behavioral profile of healthcare institutions and providers of the work - Prepare an estimate of the fraud incidence for 2015 to 2020; 3) interpret the results of the fraud index algorithm and fraud incidence; 4) facilitate trainings/webinars/speaking engagements to broad range of stakeholders on big data for health financing and fraud risk; and 5) prepare the final report of the project and policy notes based on the recommendations.

**Economic Recovery Program, Sub-activity 33.g Macroeconomics of Risk-Sharing in a Crisis: lesson from the Covid-19 pandemic in the Philippines**, (May 2021-Nov 2021), Development Economics Specialist, funded by the United States Agency for International Development (USAID), and implemented by the UP Public Administration Research and Extension Services Foundation, Inc.,

The objective of this activity is to address the question of what will likely be the new normal for the Philippine economy after the COVID-19 pandemic. My tasks as





Development Economics Specialist are to: 1. Review literature on the “new normal” in the aftermath of the COVID-19 pandemic. 2. Document and analyze major policy and regulatory changes as well as programs instituted by the government during the pandemic. 3. Determine which of the policies, regulations and programs documented in (2) should be retained or modified after the pandemic. 4. Conduct focus group discussions (FGDs) with private sector regarding trends and forecasts of their respective industries in the new normal. 5. Given the findings in (1) – (4), describe the contours of the "new normal" and what significant changes it will bring to the Philippine economy, and how it will differ from the “new normal” of ASEAN neighbors. 6. Present drafts of the technical report to UPPAF RESPOND, other team members, and other stakeholders, including among others, NEDA and DDTI; and 7. Attend face-to-face and/or virtual meetings organized by UPPAF RESPOND and other stakeholders that are related to this assignment.

**Formulation of the National Agriculture and Fisheries Modernization and Industrialization Plan (NAFMIP) 2020-2030** (November 1, 2020-December 30, 2021), Consultant (Agribusiness Value Chain Expert and Deputy team Leader), funded by SEARCA/ADB

The project is commissioned by SEARCA, funded by the Asian Development Bank to formulate the NAFMIP 2020-2030. The Plan shall consider the New Thinking Paradigm, 0-10 Point Socio-Economic Agenda, Philippine Development Plan (PDP) 2017-2022, Sustainable Development Goals (SDGs) 2030, AmBisyon Natin 2040 and other relevant laws such as AFMA, Fisheries Code, Rice Tariffication, Sagip Saka, Farm Tourism, Food Safety, priority programs and projects, among others. The aim of the NAFMIP is to achieve the twin objectives of higher incomes and increased productivity of farmers and fisherfolks.

**Further Analysis of the 2018 National Migration Survey on the Trends and Patterns of Migration** (August 1, 2020-October 1, 2020), Consultant, funded by POPCOM

The project is commissioned by the Commission on Population and Development (POPCOM) to conduct further study of the 2018 National Migration Survey results to gain an in depth view of the underlying factors affecting migration in the Philippines, and in particular, to assist policymakers and influence program managers at the provincial/regional level to appropriately target their projects based on the skills and demographic characteristics of the possible spurt in the inflow of migrants going back to their respective home regions as a result of the Balik Probinsya, Bagong Pag-asa Program (BP2).

Objectives: 1) To conduct a thematic analysis of the trends and patterns of migration in the Philippines, highlighting the demographic characteristics of the migrants at the provincial level; and 2) To recommend policies that will support the enhancement of the local government programs (in rural areas) that intends to cater to the inflow of migrants because of the current administration’s Balik Probinsya, Balik Pag-asa Program.”

Policies that would enable long-term sustainability of said project is a priority.

**Behavioral Change Communication (BCC) Intervention for Premature and Small Newborn Care: Development of Prematurity Communication Strategy for the PhilHealth Z Benefits Package for Premature and Small Newborns** (February 2020-December 2022), Project Leader, funded by the United Nations Children’s Fund (UNICEF)



The project is commissioned by UNICEF to support the utilization and contracting of the PhilHealth Z benefit package for premature and small newborns through the formulation of a behavior change communication strategy. Providing support for mothers and premature/small newborns is also consistent with the first 1000 days initiative to ensure that children who are at risk of malnutrition and other health morbidities are provided with financial assistance for medical services.

Specific Objectives: 1. To understand the level of awareness of the new health insurance package among pregnant women and their families and the determinants of positive behaviors during pregnancy and when experiencing preterm labor; 2. To formulate an evidence-based communication strategy to increase utilization of the prematurity benefit package and contracting of hospitals; 3. To provide support for the implementation of the communication plan to DOH, Philhealth, and different health facilities, beginning the second semester of Year 2 and throughout Years 3 and 4; 4. To document the reach of the communication interventions implemented.

**Study on NFA's Buffer Stocking Mandate under RA 11203** (January-September 2020), Economist, funded by the National Food Authority of the Philippines

The objective of the study is to provide recommendations to the NFA Council on the appropriate management and operation scheme for NFA's buffer stocking mandate. In particular, the study aims to: a) determine the optimal level of buffer stocks that NFA should maintain to be used for emergency and disaster relief operations at any given time; b) formulate an appropriate and effective buffer stocks management and operation to ensure quality and efficient stock flow (reduce logistics cost, time and rate of stocks loading, storage, processing and unloading vis-à-vis stock procurement/replenishment, strategic warehouse location, etc); c) recommend a suitable formula to determine the price at which NFA should procure rice from local farmers, sell its buffer stocks for government emergency/relief operations and sell to targeted consumers; and d) identify and recommend existing NFA properties and facilities appropriate for divestment and to be retained.

**Economic Assessment of Mining Operations, Phase II** (December 2019-May 2021), Economist, funded by the Development Academy of the Philippines

A handwritten signature in black ink, appearing to read 'Indar Angas'.

The project is commissioned by the Mining Industry Coordinating Council (MICC). As economist, I am tasked to identify and assess the economic contribution of the mining operations and mining processing plants to the local/host communities particularly livelihood opportunities created, employment and local revenue generated, and to conduct a landscape cost-benefit analysis of the mining operations and mining processing plants.

**Qualitative Process Evaluation of the Barangay First 1000 Days (BF1KD) and other Right Start Component Interventions (Philippines)** (October 2019-February 2020), Project Leader, funded by Nutrition International

The objectives of the process evaluation: 1) Review overall progress of implementation BF1KD and other Right Start Component Interventions vis-a-vis planned activities, targets, milestones (products developed); 2) Assess/evaluate the BF1KD and other Right Start Component Interventions/support activities based on the following criteria: relevance and appropriateness, effectiveness, sustainability and replicability, taking into account adjustments or modifications already implemented; 3) Based on the findings, propose refinements or modifications to further strengthen and enhance the BF1KD, and other Right Start Component interventions; and 4) Identify mechanisms to promote integration of the BF1KD model into nutrition programs in the F1KD as envisioned under RA 11148 and implementation alignment under RA11223.

**Formulation support for establishment of the Rice Competitiveness Enhancement Fund (RCEF) Impact Monitoring System** (September 2019-December 2019) Principal Investigator (Agricultural Economist), funded by Food and Agriculture Organization of the United Nations (FAO)

The purpose of the proposed project is to facilitate the conduct of consultation activities, data gathering and stakeholder engagement that will support the development of the full TCP project document on the establishment of the RCEF Impact Monitoring System. Primarily, the project will enable the engagement of an expert who will lead the development of the full TCP proposal (with the Terms of Reference of the experts), including the conduct of related supporting activities. The output of this project is a full project document on the establishment of a results-based monitoring system for the Rice Competitiveness Enhancement Fund.

**Policy Advocacy for a Climate Smart Food System in South East Asia: Seed Systems Research Study** (September 2019-December 2019) Principal Investigator, funded by the International Potato Center (CIP)

This study is part of one of the subcomponents of the project on “Climate-smart Food Systems in Southeast Asia”, which “focuses on strengthening seed systems through policy reforms and rice based systems and improve nutrition security.” This study will focus on one of the activities of the Project, i.e., “improving efficiency of seed systems to accelerate adoption of climate-resilient crops in the Philippines.” The main objective of the study is to examine the following aspects: a) seed value chain for climate resilient roots and tuber crops: Sweet potato, Cassava and Potato; b)



seed replacement and certification procedure; c) varietal release process; and d) seed trade and market

**Issues Paper on Baked Goods and its Competitive Landscape in the Philippines** (September 2018-February 2019) Principal Investigator, funded by Philippine Competition Commission (PCC)

This paper proposes a study with the main goal of analyzing and understanding the competitive landscape of the Philippine baked goods industry, in which flour is used as a primary input. The objectives of the paper are a) to analyze, in detail, the existing market competition conditions of the Philippine baked goods industry to provide a general overview for the entire analysis; b) to elucidate the entire value chain process to highlight possible existing trends, systems and practices which contribute to the current levels of competition in specific areas within the chain; c) to identify beneficial or detrimental factors in the value chain that affect market competition; d) to evaluate which of these factors are the most frequently occurring throughout the industry that may be the basis of further analysis and recommendations; e) to ascertain the potential positive and negative impact of laws and government policies to market competition in the industry; f) to provide a structural screening exercise to determine if the identified market conditions are conducive to the existence of a cartel; and g) to provide policy recommendations to the Philippine Competition Commission (PCC) on how to address anti-competitive conditions and practices identified in the industry.

**Issues Paper on Agricultural Credit Market in the Philippines** (May-October 2018) Principal Investigator, funded by Philippine Institute for Development Studies (PIDS) in collaboration with the Philippine Competition Commission (PCC)

The issues paper will describe the competitive landscape of the agricultural credit market in the Philippines, including bank and non-bank institutions, and informal credit providers. The study shall also include a structural screening exercise to determine whether conditions are conducive to anti-competitive conduct, including the formation and stability of a cartel. Other potential competition issues shall be identified and possible corrective measures shall be proposed.

**Economic Assessment of Mining Operations** (February-August 2018), Economist, funded by the Development Academy of the Philippines

The project is commissioned by the Mining Industry Coordinating Council (MICC). As economist, I am tasked to identify and assess the economic contribution of the mining operations to the local/host communities particularly livelihood opportunities created, employment and local revenue generated, and to conduct cost-benefit analysis of the mining operations.

**Workshop on Impact Evaluation Design and Methods** (2018-2019), funded by the Commission on Higher Education (CHED)



The training aims to advance the state of higher education through the delivery of training and the conduct of research on innovative practices in teaching and learning. The trainings are conducted in three batches and intended for faculty and researchers from SUCs and LUCs.

**Impact Evaluation of Technical Education and Skills Development Project (TESDP)** (January-August 2019), Team Leader and Impact Evaluation Specialist, funded by National Economic and Development Authority (NEDA)

The overall objective of the study is to determine the difference the TESDP made, in terms of developmental results and impacts compared to the situation without the TESDP. The specific objectives of the study are as follows: a) assess the impact (planned and unplanned) of the Project on the TESD system; b) assess the benefits (direct and indirect) of the Project on its primary and secondary beneficiaries; c) assess whether benefits of the Project are sustained, and whether there are sustainability mechanisms put in place;

**Impact Evaluation Training Workshop** (June -November 2018), Team Leader and Lecturer, funded by National Economic and Development Authority (NEDA)

The course, to be delivered by a select group of experts (please see list of resource persons below), is an introduction to impact evaluation as a tool for determining the effectiveness of development programs, improving program designs, and informing policy dialogue. It will provide a thorough understanding of randomized and non-randomized evaluations, mixed methods of evaluation, monitoring methods, and econometric methods to evaluate the impact of development programs particularly in developing countries.

**Design and conduct of the training on economic principles** (October 2017 to December 2017), Project Leader, Funded by: Department of Trade and Industry (DTI)

The objective of the training is to improve the skills and competence of the Bureau of Trade and Industrial Policy Research (BTIPR) officers and staff in the formulation of industrial policies and strategies that will promote industry development. Key tasks shall include the following: a) Conduct diagnostic exams to determine the competency and specific needs of the participants; b) Develop a training design and training modules that consider the competency and training needs of the participants; c) Develop a training manual containing learning materials for distribution to participants; d) Conduct the training/workshops for 28 participants of the BTIPR and selected staff of other DTI bureaus and offices; e) Prepare and submit a final report, to include analysis of the conduct of the pre- and post-assessments, recommendations for the next level program, and documentation of the activities conducted.



**Formulation of Industry Roadmap: Processed Fruits and Nuts Industry** (June 2017 -April 2018), Value Chain Specialist, funded by the Board of Investments- Department of Trade and Industry

The study aims to develop globally competitive industries with strong forward and backward linkages, characterized by deep participation, particularly by small and medium enterprises, in regional and global production networks and global value chains. Five industries are prioritized under the Comprehensive National Industrial Strategy (CNIS): manufacturing, infrastructure and logistics, agribusiness, IT-BPM/KPO, and tourism. Of the manufacturing industries, the processed fruits and nuts industry is identified for development. As Value Chain Specialist, I am responsible for drafting the industry roadmap for the processed fruits and nuts industry (to include bananas, pineapple, papaya, dragonfruit/durian, mango, calamansi, cashew nuts, and pili nuts) through primary and secondary research and in consultation with relevant stakeholders from the government and the private sector.

**Developing Measures to Assess Health Literacy** (March-September 2017), Impact Evaluation Specialist, UNILAB Foundation

This study aims to develop measures for UNILAB Foundation to be able to assess health literacy among HSOTG–TSC (Health Science On The Go – Traveling Science Centrum) school-aged children and adolescents participants. HSOTG–TSC is designed to enhance students’ knowledge of health science through an interactive traveling exhibit that provides them a meaningful and relevant learning experience. The development of the measures are also anchored on the health science curricula of the Department of Education and the modules developed by UNILAB Foundation for its HSOTG–TSC project.

**A Study on the Financing of LGU-owned Hospitals** (August 2016-March 2017) under Social Development Research Center (SDRC), DLSU, Team Leader, funded by Philippine Council for Health Research and Development (PCHRD)

The study attempts to provide an overview of the financing flow of LGU-owned hospitals. This study aims to quantify how hospitals in LGUs outside the jurisdiction of the DOH are financed. The objectives of the study are: assess the effect of devolution on local government expenditure on health and on health care delivery. The specific objectives are: a) To determine the bed capacity and utilization of hospital services in LGU-owned hospitals; b) To collect and describe data on the sources of funds of LGUs, including subsidies and donations, and its uses in delivering local health services; c) To quantify revenue sources and expenditures of LGU-owned hospitals, and assess its financial sustainability over the period 2010-2015; d) To determine the extent of fiscal autonomy among LGU-owned hospitals thru their current system of financing, budgeting, sources of income and allocation of resources, costs and returns, and existing governance mechanisms, and operations and management systems of hospitals managed by LGUs; e) To assess the efficiency and effectiveness of health service delivery in LGU-owned hospitals, including planning, budgeting, procurement of goods and services, and management of systems;



f) To provide a baseline for a needs-focused intervention that will aid planning towards improving the performance of health service delivery in LGU hospitals.

**Effect of Devolution on Local Health Expenditure and Delivery of Health Services** (July 2016-January 2017) under Social Development Research Center (SDRC), DLSU, Team Leader, funded by Philippine Council for Health Research and Development (PCHRD)

The major objective of the study is to assess the effect of devolution on local government expenditure on health and on health care delivery. The specific objectives are: a) determine the trends in local health expenditure over the period 1990-2014 to capture the pre-devolution (1990-1991) and post-devolution (1992-2014); b) identify factors that could explain the trend in local health expenditure over the period 1990-2014. Determine the relationship between health expenditure and health service delivery outcomes during pre- and post-devolution period; c) determine the effect of devolution on local government spending on health and on health service delivery outcomes; e) Examine the perception of the effectiveness of devolution by local chief executives on local health expenditure and health service delivery; and f) Identify policy recommendations for the local government to make local health systems effective and more responsive.

**PAMANA (Payapa at Masaganang Pamayanan) Program Midterm Review** (April 2016-Jul 2016) under Jesse M. Robredo Institute of Governance (JRIG), DLSU, Development Economist, funded by the Office of the Presidential Adviser on the Peace Process (OPAPP)

The study aims to: a) assess program implementation in terms of the implementing agency's/unit's level and quality of adherence to mechanisms and processes for peace and social cohesion, particularly in relation to inclusion, participation, empowerment, transparency and accountability, and conflict-sensitivity and peace promotion; b) assess emerging outcomes as described by the program beneficiaries and implementers; c) assess program results in relation to criteria of effectiveness, efficiency, convergence, and sustainability; and d) assess overall program performance, specifically in relation to examining relevance, soundness and viability of program conceptualization as well as highlighting necessary revisions in program design, management and implementation to achieve intended program results and impacts.



**Impact Evaluation of the Philippines' Dual Training System** (November 2015-June 2016), Impact Evaluation Specialist, funded by the World Bank

The study aims to evaluate the impacts of the Dual Training System (DTS), managed by the Philippine's Technical Education and Skills Development Authority (TESDA) in the Philippines, on skill formation and labor market outcomes. The DTS track is popular and oversubscribed among the students, and its popularity may be taken as a prima facie evidence for the success of the dual modality. However, a rigorous impact evaluation is required to provide robust estimates of the economic returns to the DTS program, relative to the cost. As part of the team of evaluators, I am responsible for the overall supervision and monitoring of the tracking survey to be conducted in the following regions: Regions 3, 4A and National Capital Region (NCR). The target sample size is around 1750 individuals. The survey has two components: (i) former trainee tracking survey and (ii) institution survey.

**How Universal Health Care is Closing the Gap in Health Outcome Disparities among Local Government Units** (November 2014-April 2016), under Social Development Research Center (SDRC), Finance Expert, funded by the European Commission,

In collaboration with the Bureau of Local Health Systems Development and the De La Salle University (DLSU), the project aims to review the impact of the LGC on the implementation of the UHC strategy and to provide a deeper understanding of how DOH programs and other interventions reduce existing disparities; what works, what not and why. As the economist of the project, my main responsibilities are to review the financing mechanisms, financial resources, budgeting and expenditure allocations of LGUs on health service delivery and analyze disparities in health service delivery whether the existing financing scheme and programs are closing these gaps.

**Impact Assessment of the National Greening Program (NGP) of the Department of Environment and Natural Resources (DENR): Scoping or Process Evaluation Phase, Economic Component**, Impact Evaluation Specialist, funded by Philippine Institute of Development Studies (PIDS)

**[PIDS-IE/14-2015/33]**





In collaboration with the University of the Philippines Los Baños, this project aims to assess the impacts of the NGP to food security, poverty alleviation, environmental stability, biodiversity conservation, and climate change mitigation and adaptation goals of the government. The project's specific objectives of the economic component are to: 1) Estimate NGP's economic impacts to project beneficiaries in terms of building up capital for improved livelihood for sustained increased income and in terms of the potential benefits it will contribute to the economic growth of the communities in the short term, municipality in the mid-term and province/region in the long-term; 2) Conduct an extended-Cost-Benefit Analysis (extended-CBA) taking into account all costs and benefits that are quantifiable in this project; and 3) Simulate potential long run economy-wide impact of NGP on the economy, incomes through the employment/livelihood component and poverty and the environment using Computable General Equilibrium (CGE) model to derive policy options that will optimize NGP performance. I am part of the team that looks at objective (3), specifically on factors (such as changes in employment and factor incomes, and changes in commodity prices) that affect household income and expenditure, and the impact of NGP on poverty and income distributional impacts across households groups.

**Philippines Alternative Learning System (ALS) Survey** (September – November 2013), Team Leader, under Angelo King Institute Economics and Business Studies (AKIEBS), funded by the World Bank, Philippines),

The objective of this survey is to collect information in National Capital Region and its surrounding provinces, i.e., Laguna and Rizal on (i) ALS learners' background and life course after they complete the program and (ii) ALS providers' background. The survey includes tracking of former learners who were enrolled in the program in 2010 and 2011, and also those adult learners and out-of school youth who were interested in ALS but did not enroll. Sample data used for sampling respondents is extracted from literacy mapping conducted by the Department of Education with the assistance of barangay officials. While the ALS program has been operating since 1990, no reliable assessment of its impact has been conducted. This situation has constrained DepEd in deciding the correct course of action for the program in the years to come. The purpose of the survey is to evaluate the effectiveness of the ALS program and provide evidence-based policy recommendations to improve the program in the Philippines.

**An Impact Evaluation Study on The Pantawid Pamilyang Pilipino Program (4Ps): Pilot Study in Bagac, Bataan** (May 2013-May 2016), Team Leader, funded by DLSU-AKIEBS, DLSU

The study aims to investigate the short term and long term impacts of the 4Ps in terms of its education and health, and labor market outcomes. In particular, the study will assess whether the program has improved the welfare of women leading to gender empowerment through a reduction in domestic violence and change in fertility rate, maternal health, and knowledge of nutrient dense in their children's diet, prevention of illness, morbidity symptoms. It will also look at the expenditure patterns of the family and any changes in the poverty status, assets and income of the beneficiaries in Bagac. The results of the study and the issues it addresses are intended to provide feedback into the planning system of the local government units in the study areas and also at the national level, particularly with the technical working groups for the 4Ps, in order that it translates to evidence-based policies. Beyond the duration of the study, the goal is for it to serve as catalyst in initiating a regular and continuing monitoring by the Department of Social Welfare and



Development of the 4Ps program. This project is envisioned to be a long term commitment on research in food and nutrition security, poverty, and evidenced-based policy. The social relevance of the project include: 1) empowerment of women and parent-beneficiaries; 2) child rights and protection—improved delivery of health and education to children in order to attain efficient and sustainable social development; and 3) healthy and happy families as productive members of the society.

**Exploring the Scope of Cost-Effective Aflatoxin Risk Reduction Strategies in Maize and Groundnut Value Chains so as to Improve Market Access of the Poor in Africa** (December 2008-February 2012, funded by the Bill and Melinda Gates Foundation)

The purpose of this project is to improve market access of the poor in Sub-Saharan Africa (Kenya and Mali) by providing empirical evidence of the cost-effectiveness of existing technologies to reduce aflatoxin risk and to understand the factors that prevent the poor from adopting control strategies along maize and groundnut value chains. My main contributions are to provide technical inputs for the cost-benefit/cost-effective analyses, adoption and willingness to pay for cost-effective risk reducing technologies. I am also responsible for the impact assessment of aflatoxin contamination on livelihoods (in terms of income and wealth) of poor households, and on the assessment of gender differences of knowledge, attitudes, and perceptions about aflatoxin risks and its risk management decisions. I also provide technical support to national collaborators on the risk pathway analysis of aflatoxin contamination along the value chain, and network mapping of institutional linkages along the value chain of maize and groundnuts. The project website is : [www.ifpri.org/afla/afla.asp](http://www.ifpri.org/afla/afla.asp)

**Impact Evaluation of the Third Elementary Education Project in the Philippines** (2010-2011, funded by JICA)

The objective of this project is to assess the impacts of a large-scale primary education intervention, Third Elementary Education Project (TEEP), implemented by the Philippine government on students' learning achievement, human capital formation and labor market outcomes by utilizing school database as well as conducting household and student tracking surveys in 8 provinces and 3 large metropolitan areas. My main contribution to this project is on coordination and monitoring of the tracking survey and in some cases on the household survey in the sample study areas in Northern Luzon and Western Visayas. I have also contributed to one of the papers that came out of the project's household data titled "Why Females are Progressive in Education? Gender Disparities in Human Capital, Labor Markets and Family Arrangement in the Philippines."

**Varietal diversification and the adoption of modern varieties of wheat and millet in India** (2009-2011, funded by Harvest Plus through the Bill and Melinda Gates Foundation)



The aim of this project is to investigate various aspects of varietal diversification and adoption of modern varieties of wheat and millet in India. Results of this project are expected to help refine target areas for potential interventions, and to shed light on several development related issues, including, but not limited to, how best to ensure the adoption of the high yielding and nutrient rich modern varieties; what are the variety traits that farm households value the most and hence would be most likely to adopt crops with these traits; and what kind of institutions (public, private, formal, informal) should be strengthened to ensure the adoption of modern varieties of crops. My contribution to this project is mainly on developing survey instruments, supervising data collection, training of enumerators, analyzing data, and writing up of reports and papers. In addition, I am also responsible for the econometric analysis of understanding the determinants of rice variety diversification of household farms in Bangladesh and West Bengal, India.

**Improving the Competitiveness of Pig Producers in an Adjusting Vietnam Market** (June 2007-2009, funded by ACIAR)

The objectives of this project are to: a) establish empirically the level of market demand for commercial and traditional quality attributes of pork in Vietnam; b) compare input supply and services arrangements (piglets, feeds and support services) as well as output marketing arrangements between smallholder pig raisers selling into higher priced market outlets versus those selling into lower priced ones; c) characterize the structure and conduct of the input and service providing firms and organizations (piglets, breeding services, feeds, extension, health, credit service) and pig market; d) assess the potential impact of selected institutional, technology and policy options for increasing the access of smallholder pig producers to improved inputs and services and accessing the high value supply chains under current market-oriented conditions, and e) Promote awareness and uptake of the pro-poor policy, institutional and investment options emerging from the project. My responsibilities are to: a) provide comments and suggestions for the design of survey instruments and descriptive analysis; b) provide inputs for the methodology, analysis and write up of results for the market survey data; c) provide technical inputs to methodology for estimating hedonic price model and for the partial equilibrium model, and provide inputs for the analysis and write up of results and d) contribute to write-up of the project's synthesis report.

Department for International Development (DfID-UK) funded project on **Pro-poor Highly Pathogenic Avian Influenza (HPAI) Risk Reduction Strategies** (May 2007-2010)

The aim of this project is to help developing countries develop a cost-effective, efficient, equitable, and sustainable HPAI control and prevention strategies. Thus, the purpose is to aid decision makers in developing pro-poor HPAI control and prevention strategies at local, national and regional levels that are not only cost-effective and efficient in terms of reducing risk, but also enhance livelihoods, particularly those of the rural poor in developing countries. The project website is: <http://www.hpai-research.net>. The project is divided into six work themes: collection of baseline information (background papers), disease risk, livelihood and nutrition impact analysis, institutional mechanisms, synthesis analysis, and risk communication. I am responsible for the synthesis of the background papers from the study countries (Ethiopia, Ghana, Nigeria, Kenya, and Indonesia). My main responsibilities are: a) to provide guidance on conducting value chain and institutional analyses of poultry and poultry products in Ethiopia, Ghana, Nigeria, Kenya, and Indonesia; b) to provide technical inputs to methodology used for the cost-benefit/cost-effectiveness analysis, and for the optimization model to simulate the effect



of various risk reduction strategies on backyard/small-scale poultry producers; c) to develop questionnaires for the cost-benefit analysis of control measures at the farm household level, supervise data collection, train enumerators, analyze data, and write up of reports; and d) to develop a user-friendly spreadsheet model for the cost-benefit analysis of control measures at the institutions level.

**From Farm to Fork – Better Food Safety for Better Development in Uzbekistan** (February – April 2008, funded by the World Bank)

The objective of the consultancy is to conduct an institutional analysis to identify gaps in the current food safety regulatory and monitoring system in Uzbekistan. The analysis helps build consensus on necessary reforms and areas for future investments to strengthen the existing system in order to better ensure food safety and limit negative impacts on the health of the population and improve export opportunities. I am responsible for value chain mapping for milk and grapes and I also contributed on the mapping of institutions and its linkages.

**Staple Crops Value Chain Analysis for Selected Countries in Sub-Saharan Africa** (February –April 2008; funded by the Bill and Melinda Gates Foundation)

The objectives of the study are a) to summarize the patterns and recent trends in the marketing of four staple food crops (maize, cassava, sorghum, and rice) in selected Sub-Saharan African countries (Benin, Ghana, Malawi, Uganda, Nigeria, and Tanzania) including the role of these commodities in household livelihoods, marketing costs at different stages, the magnitude to flows through different channels, the extent of internal and cross-border trade, and the policy environment; b) to describe the patterns and recent trends in the processing of the four staple commodities in the same countries, including the cost of processing, the proportion of production undergoing different types of processing, the composition of small and large-scale processors, and policies affecting the sector; and c) to review current and potential interventions to improve the efficiency of staple crop marketing and, to the extent possible, to evaluate the qualitative impact of these interventions on farmers, traders, and consumers. I am responsible for the value chain analysis for rice and cassava in Ghana.



**Contract Farming for Equitable Market-Oriented Smallholder Swine Production in Northern Vietnam** (June 2005-2007, funded by FAO)

This project seeks to identify a set of policy and intervention options for the facilitation of profitable market-oriented pig farming partnerships involving smallholders, and to understand barriers to participation of the poor in contract farming and other marketing arrangements in Northern Vietnam. It assesses a variety of institutional arrangements through selected case studies, and provides information on marketing arrangements for pigs and pig products under different institutional forms, and on contractor strategies for targeting and selecting producers in Northern Vietnam. I provided technical support to the national collaborator including econometric analysis, and in developing questionnaires for the household surveys and focus group discussions.

**Contract Farming of Milk and Poultry in India** (January 2005-June 2006, funded by FAO)

The end purposes of the Project are to find ways to: (a) lower smallholder farmers' transaction and production costs; (b) increase smallholder farmers' access to services; (c) ensure product supply; (d) promote or maintain the spatial distribution of intensified animal production to reduce negative impact on the environment and public health; and (e) promote the equitable development of the community at large. As lead researcher for this project, my responsibilities are to (a) organize, oversee, and monitor household surveys, focus group discussions, and outreach activities; and (b) conduct econometric analysis; (c) write the synthesis report.

- **Evaluating the Cost to Smallholders of Complying with Increased Food Safety Requirements: the Case of the Cantaloupe Small Producers in Mexico** (December 2005-2008)

The goal of this research is to better understand the cost of compliance issues of increased food safety requirements for a variety of commodities on smallholders. It investigates how small producers of cantaloupe in Mexico and Guatemala have responded to the increasing demands of food safety in the United States. I am responsible for providing technical inputs to the national collaborator in terms of developing the conceptual framework and supply chain analysis.

- **Improving Market Opportunities for Small-Scale Livestock Producers Through Effective Storage of Animal Feeds so as to Minimize Mycotoxins** (March 2007-February 2008- Phase I: Proposal development)

The purpose of the project is to better understand the economic and health implications of not reducing the risk of mycotoxins and the risk-risk trade-offs. It aims to aid decision-makers/policy makers in identifying cost-effective storage methods that would minimize mycotoxins thereby improving the livelihoods of small-scale crop and livestock producers. I conceptualized and developed the proposal for Phase I of this project. I also provided research support in the development of the full proposal submitted to potential donors (the proposal has been accepted and funded by the Bill and Melinda Gates Foundation in November 2008).



- **Highly Pathogenic Avian Influenza (HPAI) Compensation in Developing Countries: Issues and Good Practices** (September- December 2006; funded by the World Bank, IFPRI, FAO, and OIE)

The objective of the study is to prepare a paper for the Bamako meeting in Mali in December 2006 identifying the best practices for compensation of producers of culled birds under developing country conditions. My contribution for this study was literature reviews on compensation schemes including types of losses to be compensated, deciding who to compensate, and organizing payments; and on poultry market chains in developing countries. Report is available at: <http://www.ifpri.org/publication/enhancing-control-highly-pathogenic-avian-influenza-developing-countries-through-compens>

- **Livestock Industrialization: Economies of Scale, Externalities, and Transaction Costs-Phase II** (2002-2004)

The project examined the relative competitiveness of samples of small, medium, and large scale livestock and dairy farms, based on their relative efficiency in securing profits from a given level of farm production resources and facing a given set of farm input and output prices. Results were used to assess the basis — or absence of basis — in the claim that larger-scale swine, broiler, layer, and dairy farms in the study countries are more profit efficient in production than smaller scale ones if family labor is not costed and if so why. The determinants of farm-specific relative efficiency were assessed, with particular attention to the roles of farm-specific transactions costs, policy distortions, and environmental externalities that differ per unit of output across different size operations. In addition to coordinating and monitoring the project's activities, I am responsible for the econometric analysis for the livestock commodities covered in the four study countries. I also have contributed heavily writing up the Research Report (No.157) that came out from this project.

#### GRADUATE STUDENT SUPERVISION / KEY NATIONAL/REGIONAL COLLABORATORS

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Dr. Caesar Cororaton, Senior Research Fellow, Virginia Polytechnic Institute and State University (Institute of Society, Culture and Environment/Global Issues Initiative)

Dr. Warren Dodd, and Dr. Craig Janes, School of Public Health and Health Systems Dr. Jennifer Liu, Department of Anthropology, University of Waterloo

Dr. Lincoln Lau, International Care Ministries

Futoshi Yamauchi, Senior Research Fellow, International Food Policy Research Institute, Washington, D.C.

Dr. Alice Laborte, Senior Scientist, International Rice Research Institute

Achilles Costales, University of the Philippines- Baguio, formerly with The Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, 00153 Rome, Italy

Ma. Angeles Catelo, University of the Philippines Los Banos, Philippines; and some faculty members from state universities like UP Visayas, CLSU, UP Mindanao, UP Tacloban, Eastern Samar State University.

Nipon Poapongsakorn and Viroj Naranong, Thai Development Research Institute, Thailand



Geraldo Sant'Ana de Camargo Barros and Sergio de Zen, Center for Advanced Studies on Applied Economics, University of Sao Paulo, Brazil

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McRey Banderlipe, Ph.D. in Economics, and Gerry Contillo, Michelle Cortes, Cielo Motin, and Lumer Jude Doce, Doctor in Information Technology;

10-15 undergraduate students supervised per Term per Academic Year (since AY 2013-14 to present).

