

CURRICULUM VITAE
DR. DENNIS SIOSON MAPA

Education:

Ph.D. (Economics), School of Economics, University of the Philippines Diliman, 2008
M.S. (Statistics). School of Statistics, University of the Philippines Diliman, 2004
M.A. (Economics), School of Economics, University of the Philippines Diliman, 2002
B.S. (Statistics), Statistical Center (now School of Statistics), UP Diliman, 1990

Present Position:

Dean and Professor, School of Statistics, University of the Philippines Diliman
Affiliate Professor, School of Economics, University of the Philippines Diliman
President, Philippine Statistical Association, Inc. (PSAI)
Vice-President and Executive Director, UP Statistical Center Research Foundation, Inc.
Member of the Governing Board, Philippine Statistics Authority (PSA)
Member of the Governing Board, Philippine Statistical Research and Training Institute (PSRTI)
Member of the Board of Trustees, Philippine Social Science Council (PSSC)

Academic Awards/Honors:

1. Recipient, One UP Professorial Chair (January 2016 to December 2018)
2. Recipient, 2015 SEARCA Regional Professorial Chair for Research Contribution on Poverty Studies.
3. Recipient, Bangko Sentral ng Pilipinas (BSP) Sterling Professor in Official Statistics (2014, 2016 and 2017)
4. University of the Philippines Scientist 1 (2012-2014)
5. 2008 Outstanding Young Scientist (OYS) Award in the Field of Economics, National Academy of Science and Technology (NAST), July 2008.
6. University of the Philippines Centennial Professorial Chair (2011)
7. University of the Philippines Centennial Faculty Grant (years 2009, 2010, 2013)
8. Outstanding Scientific Publication Award for the paper "*Measuring Market Risk using Extreme Value Theory (EVT)*," National Academy of Science and Technology (NAST), July 2011.
9. Best Scientific Poster Award for the paper "*Agricultural Output and the States of Poverty in the Philippines: Evidence from Self-Rated Poverty Data.*" National Academy of Science and Technology (NAST) July 2011.
10. Outstanding Scientific Publication Award for the paper "*Population Dynamics and Household Saving: Evidence from the Philippines.*" National Academy of Science and Technology (NAST) July 2010.
11. Best Scientific Poster Award for the paper "*Is Income Growth Enough to Reduce Fertility Rate? Empirical Evidence from Regional Panel Data,*" National Academy of Science and Technology (NAST) July 2010.
12. Best Scientific Poster Award for the paper "*The Young, the Elderly and Household Saving: Evidence from the Philippines,*" National Academy of Science and Technology (NAST) July 2009.

13. Outstanding Scientific Publication Award for the paper “*A Range-Based GARCH Model for Forecasting Financial Volatility*,” National Academy of Science and Technology (NAST) July 2007.
14. Outstanding Thesis in Advanced Science and Technology from the Department of Science and Technology (DOST) – Philippine Council for Advanced Science and Technology Research and Development (PCASTRD) for the M.S. Statistics Thesis “*Generalized AutoRegressive Conditional Heteroskedasticity Parkison Range (GARCH-PARK-R) Model*”, December 2005.
15. Best Graduate Student Paper at the 9th National Convention on Statistics (NCS) for the paper “*A Forecast Comparison of Financial Volatility Models: GARCH (1,1) is not Enough.*” October 2004.
16. 5th Place, Best Ph.D. Student Paper “*Quantifying the Impact of Population on Economic Growth and Poverty: The Philippines in an East Asian Context.*” 5th Association of Pacific Rim Universities (APRU) Doctoral Students Conference, University of Sydney, Australia, August 2004.

Publication (Book Chapters):

1. Ravago, Majah Ma. Leah, Raul V. Fabella, Ruperto Alonza, Rolando Danao and Dennis Mapa (2017; forthcoming), “Energy: Power Security and Competitiveness” in R. Clarete, E. Esguerra and H. Hill (editors), *The Philippine Economy: Struggle for Development*.
2. Mapa, Dennis S. and Arsenio M. Balisacan (2017; forthcoming), “*The Population-Poverty Nexus: The Philippines in Comparative East Asian Context.*” The University of the Philippines Press, Diliman, Quezon City.
3. Mapa, Dennis S., Fatima C. Han and Kristine Claire O. Estrada (2013), “*Hunger Incidence in the Philippines: Facts, Determinants and Challenges*” in Mercedes B. Concepcion (editor) *Millennium Development Goals and Beyond: Are We Making Progress?* The National Academy of Science and Technology (NAST) Monograph Series Number 19, Volume II, pp.55-76.
4. Balisacan, Arsenio M., Sharon Piza, Dennis S. Mapa. Carlos Abad Santos and Donna Mae Odra (2010), “*Social Impact of the Global Financial Crisis in the Philippines*” Asian Development Bank.
5. Mapa, Dennis S., Arsenio M. Balisacan and Kristine Joy S. Briones (2008), “*Robust Determinants of Income Growth in the Philippines.*” in Joseph J. Capuno and Aniceto C. Orbeta (editors), *Human Capital and Development in the Philippines*. Philippines Institute for Development Studies (PIDS), Makati City.
6. Mapa, Dennis S. and Arsenio M. Balisacan, (2004), “Quantifying the Impact of Population on Economic Growth and Poverty: The Philippines in an East Asian Context.” In Sevilla, L.A. (editor), *Population and Development in the Philippines: The Ties That Bind*. AIM Policy Center, Makati City.

Publication (Journal Articles):

- i. Mojica, Mynard Bryan R. and Dennis S. Mapa (2017). “An Index of Financial Inclusion in the Philippines: Construction and Analysis.” *The Philippine Statistician*, Volume 66, No. 1, pp.59-74.

- ii. Albis, Manuel Leonard F. and Dennis S. Mapa (2017). "Bayesian averaging of classical estimates in asymmetric vector autoregressive models." *Communications in Statistics - Simulation and Computation*. Vol 46(3), 1760-1770.
- iii. Eustaquio, John. D., Dennis S. Mapa, Miguel C. Mindanao and Nino I. Paz (2015). Forecasting Time-Varying Correlation using the DCC Model. *The Philippine Statistician*, Vol. 64 (1), pp. 53-74.
- iv. Cayton, Peter Julian A. and Dennis S. Mapa (2015), "Time-Varying Conditional Johnson Su Density in Value-at-Risk (VAR) Methodology" *The Philippine Review of Economics*, Volume 52. No.1 pp. 23-44, June 2015
- v. Albis, Mapa, Comandante, Cura & Ladao (2015). "Spatial Analysis of Income Growth in the Philippines: Evidence from Intracountry Data." *Theoretical and Practical Research in Economic Fields*. Vol VI, Issue 1(11), pp 5-20, Summer 2015.
- vi. Franco, Ray John Gabriel and Dennis S. Mapa (2014), "Analyzing the Dynamics of GDP Growth: A Mixed Frequency Model Approach." *Theoretical and Practical Research in Economic Fields*, Volume V, Winter, 2(10), pp. 117-141.
- vii. Orpia, Cherie B., Dennis S. Mapa and Julius C. Orpia (2014), "Time Series Analysis using Vector AutoRegressive Models of Wind Speeds in Bangui Bay and Selected Weather Variables in Laoag City." *Journal of Environmental Management and Tourism (JEMT)*, Volume V, Summer, Issue 1(9), pp.54-65.
- viii. Cruz, Christopher F. and Dennis S. Mapa (2013), "An Early Warning System for Inflation in the Philippines Using Markov-Switching and Logistic Regression Models." *Theoretical and Practical Research in Economic Fields*, (Volume IV, Winter), 2(8):137-152.
- ix. Mapa, Dennis S., Michael Daniel C. Lucagbo and Heavenly Joy P. Garcia (2012), "The Link between Agricultural Output and the States of Poverty in the Philippines: Evidence from Self-Rated Poverty Data." *The Philippine Review of Economics (PRE)*, December 2012.
- x. Mapa, Dennis S., Fatima C. Han and Kristine Claire O. Estrada (2011), "Food Inflation, Underemployment and Hunger Incidence: A Vector Autoregressive (VAR) Analysis." *The Philippine Statistician*, Volume 60, pp. 43 – 62, September 2011.
- xi. Mapa, Dennis S., Monica Flerida B. Sandoval and David Joseph Emmanuel B. Yap II (2010), "Investigating the Presence of Regional Economic Growth Convergence in the Philippines using Kalman Filter." *Philippine Journal of Development (PJD)*, pp. 1-20, Volume 37, No. 2, December 2010.
- xii. Santos, Edward P., Dennis S. Mapa and Eloisa T. Glindro (2010), "Estimating Inflation-at-Risk (IaR) using Extreme Value Theory (EVT)." *The Philippine Review of Economics*, Vol. XLVII, No.2, pp. 21-40' December 2010.
- xiii. Cayton, Peter Julian A., Dennis S. Mapa and Mary Therese A. Lising (2010), "Estimating Value-at-Risk (VaR) using TiVEx-POT Models." *Journal of Advanced Studies in Finance*, Vol.1 Issue 2(2), Winter 2010, pp. 152-170.
- xiv. Balisacan, Arsenio M., Sharon Piza, Dennis Mapa, Carlos Abad Santos, and Donna Odra (2010), "The Philippine Economy and Poverty During the Global Economic Crisis" *The Philippine Review of Economics*, Vol. XLVII, No.1, June 2010, pp.1-37.
- xv. Gochoco-Bautista, Maria Socorro and Dennis S. Mapa (2010), "The Linkage between Trade and Financial Integration and Output Volatility in East Asia." *Asian Economic Journal* Vol. 24 No. 1, pp. 1-23, March 2010.

- xvi. Mapa, Dennis S. and Kristine Joy S. Briones (2009), "Population Dynamics and Elderly Saving: An Econometric Analysis." Transactions of the National Academy of Science and Technology (NAST), Vol. 31, No.2, pp.183-196, December 2009.
- xvii. Suaiso, Jose Oliver Q. and Dennis S. Mapa (2009). "Measuring Market Risk Using Extreme Value Theory (EVT)." Philippine Review of Economics, Vol. XLVI, No. 2, December 2009, pp. 91-121.
- xviii. Mapa, Dennis S. and Lisa Grace S. Bersales (2008), "Population Dynamics and Household Saving: Evidence from the Philippines." The Philippine Statistician, Vol .57, Nos. 1-4, pp. 1-27.
- xix. Beronilla, Nikkin L. and Dennis S. Mapa. (2008), "Range-Based Models in Estimating Value-at-Risk (VaR)." The Philippine Review of Economics, Volume XLV, No.2, pp. 87-100.
- xx. Mapa, Dennis S. and Kristine Joy S. Briones, (2007), "Robustness Procedures in Economic Growth Regression Models." The Philippine Review of Economics, Vol. XLIV (2), pp. 71-84.
- xxi. Mapa, Dennis S., Arsenio M. Balisacan, Kristine Joy S. Briones (2006), "Robust Determinants of Income Growth in the Philippines." Philippine Journal of Development (PJD), Volume XXXIII, Nos. 1-2, pp. 1-32.
- xxii. Mapa, Dennis S. and Kristine Joy S. Briones. (2006), "Measuring the Common Component of Stock Market Fluctuations in the Asia-Pacific Region." The Philippine Statistician, Vol. 55, Nos. 1 and 2, pp.103-117.
- xxiii. Mapa, Dennis S. (2004), "A Forecast Comparison of Financial Volatility Models: GARCH (1,1) is not Enough." The Philippine Statistician, Vol. 53, Nos.1-4, pp.1-10.
- xxiv. Mapa, Dennis S. (2003), "A Range-Based GARCH Model for Forecasting Financial Volatility." The Philippine Review of Economics, Volume XL, No. 2, pp. 73-90.
- xxv. De Guzman, A., Supe, A. Mapa. Dennis S., De Leon, A. and Abanilla, J. (1992) "Statistical Science and the Environment." The Philippine Statistician, Vol.42, pp. 1 – 8.

Fellowships:

- 1. Research Fellow, Social Weather Stations (SWS)
- 2. Research Fellow, Energy Policy and Development Program (EPDP)
- 3. Visiting Research Fellow, International Centre for the Study of East Asian Development (ICSEAD), Kitakyushu, Japan, 2006.

Select Research Initiatives/Consulting Work:

- 1. Consultant, Kapit-Bisig Laban sa Kahirapan-Comprehensive and Integrated Delivery of Social Services National Community Driven Development Program (Kalahi-CIDSS NCDDP, or KC-NCDDP) Outcome Survey Study, Department of Social Welfare and Development (DSWD), 01 February 2017 to present.
- 2. Consultant, Capacity Building of Statistical Data Collectors of the Philippine Statistics Authority (PSA), 01 January 2017 to present.
- 3. Project Leader, Study on Lawyer Competencies and Law Curriculum in the Philippines for the Philippine Association of Law Schools (PALS), June 2016 to present.
- 4. Econometrician/Project Leader, Cost Benefit Study of the Dual Training System for TESDA and PCCI, August 2015 to October 2016.

5. Econometrician, Construction of Alternative Leading Economic Indicator System (LEIS) for the Philippine Economy for the Philippine Statistics Authority (PSA), October 2015 to December 2016.
6. Poverty Targeting Specialist, National Household Targeting Office (NHTO), Department of Social Welfare and Development (DSWD), June to December 2016.
7. Econometrician – Demographic Sweet Spot and Demographic Dividend in the Philippines, United Nations Population Development Fund (UNFPA), October 2014 to September 2015.
8. Econometrician/Statistician – Social Protection (SP) Survey, University of the Philippines School of Economics (UPSE) and Philippine Center for Economic and Development (PCED), Nationwide Survey covering 50 provinces with 3200 respondents, October 2013-March 2015.
9. Econometrician – Impact Evaluation of the Search for Outstanding Teachers (SOT), Metrobank Foundation, Inc., February 2014 – March 2015.
10. Consultant/Poverty Specialist, World Bank Office Manila under UPI No. 471130, PO No. 7856064, June to December 2014.
11. Resources Person/Econometrician – Support for Social Protection Reform (Analysis of Near Poor Challenge and Strategy Development Ideas), Asian Development Bank (ADB), TA-7733, March to June, 2014.
12. Consultant (Poverty Targeting Specialist), National Household Targeting System for Poverty Reduction (NHTS-PR), Social Welfare and Development Reform Project, Department of Social Work and Development (DSWD), August 2012 to December 2013.
13. Consultant, Harmonizing Approaches on Population, Poverty Reduction and Environment in the Philippines, Research Project for the National Anti-Poverty Commission (NAPC), October to December 2011.
14. Consultant - Addressing Infrastructure Constraints to the Development of the Rural Nonfarm Sector Implications for Poverty and Rural Development. A research project for the World Bank Philippines, April 2010 – September 2011.
15. Consultant/Econometrician, Development of a Macroeconomic Model for the Philippines, Asian Development Bank (ADB) TA-7806, August 2013 – November 2014.
16. Project Leader, Credit Demand Survey of Philippine Households, Radiowealth Finance Company (RFC), Inc., survey of households in 6 provinces with 2400 respondents, June 2013- March 2014.
17. Consultant/Econometrician, Development of a Macro-Econometric Model for Bhutan, Asian Development Bank (ADB), TA-7638, May 2013 to December 2013.
18. Consultant, Special Study on the Impact Evaluation of the Secondary National Roads Development Project (SNRDP), Millennium Challenge Account – Philippines, January to November, 2013.
19. Consultant (Econometrician/Quantitative Method Expert), Understanding the State of the Art of ICT4E in the Philippines, a USAID-funded project for the Department of Education (Deped), June to October 2012.
20. Consultant (Econometrician) - Critical Constraints to Agricultural Productivity in Asia and the Pacific, Asian Development Bank (ADB), December 2011.
21. Consultant – Impact Assessment of the Busog, Lusog, Talino (BLT) Program of the Jollibee Foundation, Inc., August 2011 – June 2012.

22. Consultant - Inclusive Agribusiness Growth in the Philippines: The Role of Direct and Indirect Channels with Focus on the Labor Market. A research project for the World Bank Philippines, September 2010 – September 2011.
23. Consultant/Project Leader – Project Assessment and Monitoring of the Proficient Measures for Quality Education (PMQE) for 2008, a research project for the Knowledge Channel Foundation, Inc. and the Philip Morris Philippines, August 2010 – August 2012.
24. Consultant/Project Leader – Perception Survey among Filipino Adults on the Philippines-Australia Relations, a research project for the Australian Embassy, Manila, August 2010 – March 2011.
25. Project Leader - Can Population Management be Mainstreamed in the Philippine Development Agenda? A Research Project for the Philippine Center for Population and Development (PCPD), December 2009 – January 2012.
26. Consultant/Subject Matter Expert – Data Extraction, Warehousing and Analytics System (DEWAS) Project, Department of Finance (DOF) and SAS Institute (Philippines), Inc. The consultant is tasked to build econometric models for forecasting and policy simulation the three departments, namely: International Finance Group (IFG), the Research and Information Office (RIO) and the Fiscal Planning and Policy Office (FPPO), October 2009 – March 2010.
27. Resource Person in Statistics and Econometrics – Bangko Sentral ng Pilipinas (BSP). Conducts regular training/seminar in the areas of Econometric and Time Series Analysis to the Technical Staff of the Center for Monetary and Financial Policy (CMFC), Department of Economic Research (DER), Department of Economic Statistics (DES), Treasury Department (TD), International Department (ID), Supervisory Report and Studies Office (SRSO) and the Supervision and Examination Sector (SES), July 2003 - present.
28. Project Director – Post Monitoring Assessment Study of the 2007 Proficient Measures for Quality Education (PMQE), a research project of the Knowledge Channel Foundation, Inc. and the Philip Morris Philippines, December 2009.
29. Project Director - Proficient Measures for Quality Education (PMQE), a research project of the Knowledge Channel Foundation, Inc. and Philip Morris Philippines, September 2009
30. Project Director - Outcome Assessment Study of Knowledge Channel’s Television Education for the Advancement of Muslim Mindanao (TEAM-M) Project. A research project for the United States Agency for International Development (USAID), March 2008
31. Project Director – Evaluation of the Impact of Presence of Knowledge Channel on Students’ Perception and Performance in Selected Schools Supported by the British Embassy. A Research Project for the Knowledge Channel Foundation, Inc. and the British Embassy-Manila, July 2007.
32. Project Director – Impact Evaluation Study for Knowledge Channel. A Research Project for the Knowledge Channel Foundation, Inc. and First Gen Philippines, November 2007.
33. Senior Associate – Technical Assessment of Saving Patterns and Behavior in the Philippines. A study for the Central Bank of the Philippines funded through the Economic Modernization Through Efficient Reforms and Governance Enhancement (EMERGE) Project of the USAID. March 2006 to July 31, 2006.
34. Project Director – The Population-Growth-Poverty Nexus in the Philippines. A Research Study on the Dynamics of Population Growth on Economic Growth and Poverty using Philippine Data from 1980 to 2000. This study was undertaken by the Asia Pacific Policy

- Center (APPC), School of Economics, University of the Philippines, Diliman, Quezon City for the Philippine Center for Population and Development. April 2005 – July 2006.
35. Research Associate – A Study of Quantitative Measures of Integration in East Asia (Principal Researcher: Dr. Maria Socorro Gochoco-Bautista). A study commissioned by the Asian Development Bank (ADB). December 2004 to April 2005.
 36. Project Director – Benchmarking Corporate Citizenship: Stakeholders Component. A Research Study on Corporate Social Responsibilities (CSR) conducted for the Philippine Business for Social Progress (PBSP), January 2005 – August 2006.

Memberships in University Committees and Professional Organizations

1. Chair, UC Committee on Finance (April 2016 – present) UP Diliman
2. Member, Executive Committee, UP Diliman (October 2014 – present)
3. Member, UC Steering Committee (April 2016 – present) UP Diliman
4. Chair/Coordinator, UP President’s Committee Studying the Health and Wellness Program and Benefit of the Faculty and Staff of the University (August 2013 – December 2016).
5. Chair, Research Committee, UP School of Statistics, July 2005- September 2014
6. Member, Academic Personnel and Fellowship Committee (APFC), University of the Philippines, Diliman (2010-2013)
7. Life Member, Philippine Statistical Association, Inc. (PSAI)
8. Director, Philippine Statistical Association, Inc. (PSAI), 2010-2012; 2016-2018
9. Chair, Annual Conference Committee, PSAI, 2010
10. Chair, Training Committee, PSAI, 2010-2013
11. Member of the Research Advisory Panel, East Asian Development Network (EADN), January 2011 – December 2014.
12. Member, The Human Development Network (HDN), 2010 – present.

Past Administrative Position:

1. Director for Research, School of Statistics, UP Diliman (July 2005 to September 2014)
2. Investment Officer, Office of the Vice President for Planning and Finance, February to May 2011