

## Erniel B. Barrios, Ph.D.

Professor of Statistics, UP School of Statistics

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### Education

- PhD (Statistics), University of the Philippines Diliman, 1990
- MS (Statistics), University of the Philippines Diliman, 1987
- BS (Statistics), Cum Laude, University of the East, 1985

### Research Interest

Computational Statistics; Nonparametric Methods; Sampling Theory

Large and High Dimensional Data (Including Big Data); Data Mining And Analytics

Applications (Consumer Behavior Modeling, Space-Time Models, Rural Development)

### Other Trainings

- Euro-Philippines Network in Banking and Finance (University of Limoges/ University Birmingham/University of the Philippines Consortium)  
2006: Seminar on Banking and Finance
- University of Washington  
1997: Post-Doctoral Fellow (Bio-Economics)
- The Ohio State University  
1989: Visiting Research Scholar

### Awards

- 2012-2017: UP Scientist III
- 2009-2011: UP Scientist I
- 2010: Natatanging Guro (Outstanding Teacher), Gawad Chancellor, UP Diliman
- 2016-2017: SEARCA Regional Professorial Chair
- 2008-2015: UP Centennial Professorial Chair

### Membership in Professional Organizations

- Since 2012: Elected Member, International Statistical Institute
- Since 2009: International Association of Statistical Computing
- Since 2006: Econometric Society
- Since 2011: East Asia Economic Association
- Since 1989: Life Member, Philippine Statistical Association, Inc.

### Committees

- 2009-2016: Chair, CHED Technical Committee for Statistics
- 2009-2016: Member, CHED Technical Panel for Science and Mathematics
- 2006-2013: Chair, Technical Committee on Survey Designs, National Statistical Coordination Board

### Editorial Experience

- 2010-Present: Editor-in-Chief, The Philippine Statistician, Philippine Statistical Association, Inc. (Indexed in Scopus since 2015).
- 2014-Present: Associate Editor, Communications for Statistical Applications and Methods, Korean Statistical Society and Korean International Statistical Society
- 2013-Present: Editorial Board, Statistics, Optimization & Information Computing, International Academic Press
- 2012-Present: Editorial Board, Statistics Research Letters, Science & Engineering Publishing Co.
- 2011-Present: Editorial Board, Open Journal of Statistics, Scientific Research Publishing
- 2008, Co-Editor: Philippine Management Review, UP College of Business Administration
- 1999-2001: Associate Editor, Social Science Diliman, University of the Philippines Diliman.

### Publications

1. S. Villejo, E. Barrios, J. Lansangan (2016), Robust Estimation of a Dynamic Spatio-Temporal Model with Structural Change, *forthcoming in Journal of Statistical Computation and Simulation*.
2. C. Manalaysay and E. Barrios (2016), Semiparametric Principal Components Poisson Regression on Clustered Data, forthcoming in *Communications in Statistics-Simulation and Computation*.
3. R. Guilatco and E. Barrios (2016), Nonparametric Estimation of a Switching Regression Model, forthcoming in *Communications in Statistics-Simulation and Computation*.
4. I. Gauran and E. Barrios (2016), Nonparametric Modeling of Clustered Customer Survival Data, forthcoming in *Communications in Statistics-Simulation and Computation*.
5. K. Santos and E. Barrios (2016), Improving Predictive Accuracy of Logistic Regression Model Using Ranked Set Samples, forthcoming in *Communications in Statistics-Simulation and Computation*.
6. M. Cervo, D. Mendoza, E. Barrios, and L. Panlasigui (2016), Effects of Nutrient-Fortified Milk-Based Formula on the Nutritional Status and Psychomotor Skills of Preschool Children, forthcoming in *Journal of Pediatric Gastroenterology and Nutrition*.
7. M. Poblador and E. Barrios (2016), Control Chart for Monitoring Autocorrelated Process with Multiple Exogenous Inputs, *Communications in Statistics-Simulation and Computation*, 45:3373-3393.
8. A. Asaad and E. Barrios (2015), Nonparametric Bootstrap Test in a Multivariate Spatial-Temporal Model: A Simulation Study, *The Philippine Statistician*, 64(1):1-16.
9. E. Barrios (2015), Robustness, Data Analysis, and Statistical Modeling: The First 50 Years and Beyond, *Communications for Statistical Applications and Methods*, 22(6):543-556.
10. M. Cervo, L. Llido, E. Barrios, L. Panlasigui, (2014), Effects of Canned Pineapple Consumption on Nutritional Status, Immunomodulation, and Physical Health of Selected School Children, *Journal of Nutrition and Metabolism*, Vol 2014, Article ID 861659, 9 pages, 2014, DOI: 10.1155/2014/861659.
11. R. Veron Cruz and E. Barrios (2014), Estimation Procedure for a Multiple Time Series Model, *Communications in Statistics-Simulation and Computation*, 43(10):2415-2431.

12. J. Umali and E. Barrios (2014), Nonparametric Principal Components Regression, *Communications in Statistics-Simulation and Computation*, 43 (7):1797-1810.
13. M. Abrigo, R. Lavado, E. Barrios, B. Gozun (2014), Estimating the Efficiency of Philippine Public High Schools Using Spatio-Temporal Stochastic Frontier Analysis, *DLSU Business and Economics Review*, 23(2):80-87.
14. J. Guarte and E. Barrios (2013), Nonparametric Hypothesis Testing in a Spatial-Temporal Model: A Simulation Study, *Communications in Statistics-Simulation and Computation*, 42(1):153-170.
15. E. Barrios (2012), Sampling from a Skewed Population: The Sampling Design of the 2011 Survey of Enterprises in the Philippines, *The Philippine Statistician*, 60:129-132.
16. M. Mancenido and E. Barrios (2012), An AR-Sieve Bootstrap Control Chart for Autocorrelated Process Data, *Quality and Reliability Engineering International*, 28:387-395.
17. E. Santos and E. Barrios (2012), Nonparametric Decomposition of Time Series Data with Inputs, *Communications in Statistics-Simulation and Computation*, 41:1693-1710.
18. E. Barrios and J. Lansangan (2012) Forecasting Customer Lifetime Value: A Statistical Approach, *Philippine Management Review*, 19: 23-34.
19. E. Barrios, Z. Albacea, J. Guarte (2012), The Statistical Science: Local and Global Directions, in V. Miralao and J. Agbisit, *Philippine Social Sciences: Capacities, Directions, and Challenges*, Quezon City: Philippine Social Science Council.
20. L. Santos and E. Barrios (2011), Small Sample Estimation in Dynamic Panel Data Models: A Simulation Study, *Open Journal of Statistics*, 1(2):58-73.
21. W. Campano and E. Barrios (2011), Robust Estimation of a Time Series Model with Structural Change, *Journal of Statistical Computing and Simulation*, 81(7):909-927.
22. E. Barrios, J. Lansangan, and J. Daquis (2011), Impact Assessment of the E-AGRIKultura Project: Philippines, Chapter 6 in D. Grimshaw and S. Kala, eds., *Strengthening Rural Livelihoods: The impact of information and communication technology in Asia*, pp. 89-108, Warwickshire: Practical Action Publishing and International Development Research Centre.

23. R. Bastero and E. Barrios (2011), Robust Estimation of a Spatiotemporal Model with Structural Change, *Communications in Statistics- Simulation and Computation*, 40(3):448-468.
24. E. Barrios (2011), Bootstrap Methods, *The Philippine Statistician*, 60:129-132.
25. C. Mina and E. Barrios (2010), Profiling Poverty with Multivariate Adaptive Regression Splines, *Philippine Journal of Development*, 69(2):55-97.
26. A. Sobrevinas and E. Barrios (2010), Impact of the Rice Trade Policy Reforms on Household Welfare in the Philippines, *Philippine Journal of Development*, 68(1):15-39.
27. M. Chernick, W. Gonzalez-Manteiga, R. Crujeiras, and E. Barrios (2010), Bootstrap Methods, in M. Lovric, ed., *International Encyclopedia of Statistical Sciences*, N.J: Springer. pp. 169-174.
28. H. Marcoyannopolou-Fojas and E. Barrios (2010), Subclinical Atherosclerosis Determined by Pulse Wave Velocity in Overweight and Obese Rural Filipino Subjects, *Atherosclerosis Supplements*, 11(2), 57.
29. J. Almeda, E. Barrios (2010), Teaching Experiments for a Course in Introductory Statistics, in C. Reading, ed., *Data and Context in Statistics Education: Towards An Evidence-Based Society*. Proc. of the 8th International Conference on Teaching Statistics, Ljubljana, Slovenia.
30. L. Panlasigui, C. Bayaga, E. Barrios, K. Cochon, (2010), Glycaemic Response to Quality Protein Maize Grits, *Journal of Nutrition and Metabolism*, Vol 2010, Article ID 697842,6 pages, 2010, DOI: 10.1155/2010/697842 .
31. C. Dumanjug, E. Barrios, and R. Lansangan (2010), Bootstrap Procedures in a Spatial-Temporal Model, *Journal of Statistical Computing and Simulation*, 80(7):809-822 .
32. E. Barrios and L. Lavado (2010), Spatial Stochastic Frontier Models, Discussion Paper Series No. 2010-08, *Philippine Institute for Development Studies*, May 2010.
33. E. Barrios (2010), Generating Small Area Statistics from Household Surveys Conducted by NSO/Small Area and SubDomain Estimation of Selected Socio-Economic Indicators, Manila: MIMAP Philippines.
34. E. Barrios (2010), Teaching of Statistical Consulting in the Philippines, *The Philippine Statistician*, 59:103-107.

35. C. Mina and E. Barrios (2009), Profiling Poverty With Multivariate Adaptive Regression Splines, Discussion Paper Series No. 2009-29, *Philippine Institute for Development Studies*, September 2009.
36. H. Marcoyannopolou-Fojas and E. Barrios (2009), Pulse Wave Velocity Determination as a Tool for Preventing Cardiovascular Disease in a Rural Filipino Population, *Atherosclerosis Supplements*, 10(2), p.e633.
37. R. Lansangan and E. Barrios (2009), Principal Components Analysis of Nonstationary Time Series Data, *Statistics and Computing*, 19(2): 173-187.
38. R. Lavado and E. Barrios (2008), Spatial-Temporal Dimensions of Efficiency Among Electric Cooperatives in the Philippines, Discussion Paper Series No. 2008-29, *Philippine Institute for Development Studies*, November 2008.
39. A. Gabriel, E. Barrios, and P. Azanza (2008), Modeling the Thermal Death of Salmonella Typhimurium in Citrus Systems, *Journal of Food Process Engineering*, 31(5):640-657.
40. E. Barrios (2008), Infrastructure and Rural Development: Household Perceptions on Rural Development, *Progress in Planning*, 70(1):1-44.
41. E. Francisco, L. De Dios, E. Barrios, A. Tijam (2008), The Contribution of Copyright-Based Industries in the Philippines, in National Studies on Assessing the Economic Contribution of Copyright-Based Industries , Creative Industries Series No. 2, World Intellectual Property Office, pp.3-92..
42. E. Barrios and G. Sarte (2008), Monitoring Sustainable Agriculture in Southeast Asia, *International Journal of Sustainable Development and World Ecology*, 15:95-102..
43. E. Barrios (2007), Model-Based Predictive Estimation with Coverage Error, *Bulletin of the International Statistical Institute*, LXII:4398-4401.
44. A. Nalica and E. Barrios (2007), Approaches in Forecasting Cereal Production, *The Philippine Statistician*, 56:85-102.
45. Quilang J P, Basiao Z U, Pagulayan R C, Roderos R R, and Barrios E B (2007), Meristic and Morphometric Variations in the Silver Perch, *Leipotherapon plumbeus* (Kner, 1864), from three Lakes in the Philippines, *Journal of Applied Ichthyology*, 23:561-567, doi:10.1111/j.1439-0426.2007.00862.x.

46. Amarra S, Bongga D, Penano-Ho L, Cruz F, Solis J, and Barrios E (2007), Effect of Iodine Status and Other Nutritional Factors on Psychomotor and Cognitive Performance of Filipino Schoolchildren, *Food and Nutrition Bulletin*, 28:47-54.
47. E. Barrios (2007), Dynamics of Development in Rural Communities, ADBI Discussion Paper No. 73, *Asian Development Bank Institute*, Tokyo, Japan, May 2007 (<http://www.adbi.org/files/dp73.rural.communities.development.infrastructure.pdf>).
48. E. Barrios (2007), Convergence in Agriculture of Some Asian Countries, ADBI Discussion Paper No. 71, *Asian Development Bank Institute*, Tokyo, Japan, May 2007(<http://www.adbi.org/files/dp71.agricultural.growth.convergence.pdf>).
49. E. Barrios (2007) Spatial Effect in the Efficient Access of Rural Development, ADBI Discussion Paper No. 65, *Asian Development Bank Institute*, Tokyo, Japan, May 2007(<http://www.adbi.org/files/dp65.rural.development.efficieny.access.pdf>).
50. E. Barrios (2007), Access to Rural Development: Household Perceptions on Rural Development, ADBI Discussion Paper No. 61, *Asian Development Bank Institute*, Tokyo, Japan, February 2007(<http://www.adbi.org/files/dp61.access.rural.development.pdf>).
51. O. Landagan and E. Barrios (2007), An Estimation Procedure for a Spatial-Temporal Model, *Statistics and Probability Letters*, 77:401-406.
52. E. Barrios and K. Komoto (2006), Some Approaches in the Construction of a Sustainable Development Index for The Philippines, *International Journal of Sustainable Development and World Ecology*, 13:277-288.
53. J. Guarte and E. Barrios (2006), Estimation Under Purposive Sampling, *Communications in Statistics- Simulation and Computation*, 35:277-284.
54. A.Nalica and E. Barrios (2005), On The Statistical Aspects of Sustainable Development Index in The Philippines, *The Philippine Statistician*, 54:63-70.
55. Y.Ruru and E. Barrios (2003), Poisson Regression Analysis of Malaria Incidence In Jayapura, Indonesia, *The Philippine Statistician*, 52:27-38.
56. B. Fermin and E. Barrios (2002), Autologistic Models with Autocorrelated Errors for an Aquatic Phenomenon, *The Philippine Statistician*, 51:43-52.
57. E. Barrios (2001), Design and Analysis of Experiments, Quezon City:Helenica Books.

58. M. Guzman, P. Arinto, R. Alcantara, E. Barrios, N. Ocampo, C. Marcial, J. Malicsi (1998), *Living Language*, Quezon City: ORC-ERP-CIDS University of the Philippines.
59. B. Dumelod, R. Ramirez, C. Tiangson, E. Barrios, L. Panlasigui (1999), Carbohydrate Availability of arroz caldo with  $\alpha$ -carageenan, *International Journal of Food Science and Nutrition*, 50:283-289.
60. E. Barrios (1998), Small Area and Sub-Domain Estimation of Selected Socio-Economic Indicators, *MIMAP Research Paper Series No. 36*.
61. E. Barrios (1996), Generating Small Area Statistics from Household Surveys Conducted by NSO, *MIMAP Research Paper Series No. 29*.
62. E. Barrios (1996), National Testing for Indicators of Sustainable Development, *Philippine Council for Sustainable Development Website*.
63. Z. Abuso, L. Cabella, L. Tuazon, and E. Barrios (1996), Red Tide Monitoring in Carigara Bay Central Philippines, In: V. Vigers, K. Ong, C. McPherson, N. Millson, I. Watson, and A. Tang (eds). *ASEAN Marine Environmental Management: Quality Criteria and Monitoring for Aquatic Life and Human Health Protection*, p. III-38 to III-66. Proceedings of the ASEAN-Canada Technical Conference on Marine Science, Penang, Malaysia: EVS Environment Consultants, North Vancouver and Department of Fisheries Malaysia.
64. E. Barrios (1991), A Statistical Model for Risk Assessment on Philippine Volcanic Hazard Zones, *The Philippine Statistician*, 41:35-45.
65. E. Barrios and T. Diaz (1990), The Use of Semiparametric Models in Time Series Analysis, *The Philippine Statistician*, 39:39-51.

### Papers in Progress

1. J. Lansangan and E. Barrios, Simultaneous Dimension Reduction and Variable Selection in Modeling High Dimensional Data, *under review*.
2. J. Eustaquio and E. Barrios, Nonparametric Hypothesis Testing in Clustered Survival Model, *under review*.
3. M. Lucagbo and E. Barrios, Estimation of Isotonic Spatio-Temporal Model with Clustering, *under review*.



4. M. Ang and E. Barrios, Cross-Country Comparison of Maternal Mortality Ratio, *under review*.
5. M. Esmenda and E. Barrios, Robust Estimation of Multilevel Model with Structural Change, *under review*.
6. E. Barrios, R. Olivares, S. Data, Robust Estimation in Clustered Multiple Time Series with Structural Change, *under review*.

### Thesis Students

1. Abon, MOS, 1990: A Crop Production Model for Soybeans in Nueva Ecija
2. Asuncion, MOS, 1990: Completion of and Achievement in a 4-Year Degree Program at Saint Mary's College of Bayombong
3. Ferino, MOS, 1991: A Model for Philippine Rice Production
4. Perido, MOS, 1991: Forecasting Coffee Farm Prices and the National Level Using Regression Models
5. Cruz, MOS, 1991: Forecasting Models for Quarterly Gross Domestic Product: Gross Value Added Components
6. Acabal, MOS, 1992: Factors Affecting Income and Expenditures of Palay Farming Households in the Province of Iloilo
7. Manuel, MOS, 1992 : Regression Analysis and Validation of Survey Data
8. Natalio, MOS, 1993: Models on the Interaction Between Health and Socio-Economic Development
9. Olea, MOS, 1994: Regression Analysis on the Nutrient Conversion on the Milkfish Brackishwater Ponds
10. Janagap, MOS, 1996 : Estimating Genetic Parameters Using Variance Components and Simulated Data
11. Jhocson, MOS, 1996: Analysis of Unbalanced Data in Upland Rice Experiment
12. Trani, MOS, 1997: Smoothing of Curve Values of Selected Anthropometric Measurements of Filipinos
13. Guirindola, MOS, 1998: Application of Selected Discrete Discriminant Models on the Self-Concept of High School Seniors

14. Fermin, MS, 2001: Fitting Logistic and Autologistic Models with Autocorrelated Errors Using Backfitting
15. Ruru, MOS, 2002: A Study on Malaria Risk Factors in Jayapura, Indonesia Using Poisson Regression Analysis
16. Medina, MS, 2002: Computing Aspects of Markov Switching Models with Time-Varying Transition Probabilities
17. Dimalapang, MOS, 2003: Comparing Two Classif. Methods: Analysis of Health and Nutrition Indicators from the 1999 MICS
18. Damian, MOS, 2004: Statistical Modeling of the Water Quality of Pasig River
19. Guarte, MS, 2004: Estimation Under Purposive Sampling
20. Suratos, MOS, 2005: Sparse Spatial Autoregressive Modeling of Poverty in the Philippines
21. Komoto, MOS, 2005: Sparse Principal Component Analysis of Sustainable Development Index
22. Landagan, MS, 2005: Estimation in a Generalized Spatio-Temporal Modeling
23. Cubinar, MS, 2005: Sampling Design Enhancements of Establishment Surveys
24. DeLosReyes, MS, 2006: Comparison of Some Estimation Procedures in Surveys of Skewed Population
25. Lansangan, MS, 2006: A Method of Attaining Sparsity of Principal Components in Time Series Data (Finalist DOST-PCASTRD Outstanding Thesis in Advanced Science and Technology, 2008).
26. Hosseinzadeh, MOS, 2006: E-Marketing Strategy for Travel Industry
27. Hebron, MS, 2006: Comparison of Different Housing Start Indices in the Philippines
28. Gabriel, MS (Food Science), 2007 :Predictive Thermal Inactivation Model of Salmonella
29. Dumanjug, MS, 2007: Bootstrap Procedures in an Iteratively Estimated Spatial-Temporal Model Typhimurium in Citrus Systems
30. Sinsioco, MOS, 2007: Forecasting Models for the Philippine Monthly Average Stock Price Index
31. Sangay, MOS, 2007: Expenditure Efficiency Among Bhutanese Households

32. Martinez, MS, 2008: An Estimation Procedure for Multivariate Spatial Temporal Model in Small Area Estimation
33. Gulles, MOS, 2008: Estimating the Proportion of Vitamin A Deficiency Among Children Aged 6 Months to 5 Years.
34. Dela Rosa, MOS, 2008: Nonparametric Krigging Using Additive Models
35. Dela Cruz, MOS, 2008: Health Expenditures and Food Consumption Patterns of Filipino Households
36. Campano, MS, 2008: An Estimation Procedure of an ARIMA Model in the Presence of Structural Change (Finalist DOST-PCASTRD Outstanding Thesis in Advanced Science and Technology, 2008)
37. Sobrevenas, MOS, 2008: A Nonparametric Analysis of the Impact of Rice Trade Policy Reform on the HH Welfare in the Philippines (Finalist DOST-PCASTRD Outstanding Thesis in Advanced Science and Technology, 2009).
38. Mina, MOS, 2008: Unearthing Poverty with MARS: Application of Multivariate Adaptive Regression Splines in Identifying Household Poverty Correlates in the Philippines (Finalist DOST-PCASTRD Outstanding Thesis in Advanced Science and Technology, 2009).
39. Gatpatan, MS, 2008: Estimation of a Response Surface Model Using Backfitting
40. Gonzales, MOS, 2009: Culture, Corruption, and the Prospects for Change:A Statistical Study
41. Capuyan, MOS, 2009: Clustering Based on Principal Components and Technical Efficiency Estimates
42. Dincog, MOS, 2009: Estimation of Transfer Function Models Through Backfitting
43. Lemence, MS, 2009: Nonparametric Testing of Structural Change and Spatial Heterogeneity in Spatial-Temporal Models (Winner DOST-PCASTRD Outstanding Thesis in Advanced Science and Technology, 2009)
44. Balagbis, MS, 2009: Estimation of Panel Models with Structural Change
45. Santos L, MS, 2009: Small Sample Estimation in Dynamic Panel Data Models

46. Bastero, MS, 2009: Robust Estimation of a Spatiotemporal Model in Epidemic (Finalist DOST-PCASTRD Outstanding Thesis in Advanced Science and Technology, 2010)
47. Guarte, PhD, 2009: Nonparametric Bootstrap Inference in a Spatial-Temporal Model (Finalist DOST-PCASTRD Outstanding Dissertation in Advanced Science and Technology, 2010)
48. Umali, MS, 2010: Nonparametric Principal Components Regression
49. Devera, MS, 2010: Semiparametric Poisson Regression for Clustered Data (Finalist DOST-PCASTRD Outstanding Thesis in Advanced Science and Technology, 2010)
50. Santos E, MS, 2010: Decomposition of Multicollinear and Time Series Data Using Backfitting and Additive Models
51. Daquis, MS, 2010: Nonparametric Transfer Function Models with Localized Temporal Effects (Finalist DOST-PCASTRD Outstanding Thesis in Advanced Science and Technology, 2010).
52. Santos J, MS, 2010: Robust Inference in Semiparametric Spatiotemporal Models
53. Matammu, MS, 2010: Testing for Presence of Structural Change and Spatial Heterogeneity in Spatiotemporal Models with Temporal Volatility
54. Giron, MS, 2010: Discrete Choice Generalized Additive Models Using High Dimensional Data
55. Kwong, MS, 2010: Nonparametric Model Based Estimation in Survey Sampling
56. Garcia, MS, 2010, Detection of Influential Observations in Regression Model with High Dimensional Predictors.
57. Guilatco, MS, 2010: Nonparametric Estimation of the Switching Regression Model
58. San Diego, MS, 2010: Nonparametric Comparison of Predictive Accuracy
59. Mancenido, MOS, 2011: An AR-Sieve Bootstrap Control Chart for Autocorrelated Process Data
60. Manalaysay, MS, 2011: Semiparametric Principal Component Poisson Regression on Clustered Data

61. Estiaga, MOS, 2011: Bootstrapping Penalty Analysis in Sensory Evaluation of Pizza Products
62. Santos K, MS, 2011: Predictive Accuracy of Fitted Logistic Regression Model Using Ranked Set Samples
63. Salagubang, MS, 2011: Outlier Detection in High Dimensional Data In The Context of Clustering
64. Esquierres, MS, 2011: Semiparametric Spatial-Temporal Model
65. Mantuano, MS, 2011: Comparison of Predictive Ability of Two Competing ARMA Models Via Cross-Spectral Analysis
66. Gonzales, MOS, 2011: Credit Card Application Scoring System
67. Abrigo, MOS, 2011: Estimating Counterfactual Schooling Outcomes Using Inverse Propensity Score Reweighting.
68. Dimapilis, MOS, 2012: AR-Sieve-Based Prediction Interval For Sustainable Development Index.
69. Ofina, MS, 2012: Autologistic Spatial-Temporal Modeling.
70. Poblador, MS, 2012: A Control Chart Design for Monitoring Autocorrelated Process with Multiple Exogenous Inputs Under Model Uncertainty.
71. Gauran, MS, 2012: Nonparametric Modelling of Clustered Survival Data.
72. Lavina, MOS, 2012: Assessing the Impact of Short-Term Shocks to Inflation Forecasts
73. Veron Cruz, MS, 2012: Estimation of a Model for Multiple Time Series.
74. Paglinawan, MOS, 2013: Comparison of Regression Estimator and Ratio Estimator: A Simulation Study.
75. Torres, MS, 2013: Sparse Nonparametric Discrete Choice Model for High Dimensional Data.
76. Esmenda, MS, 2013: Robust Estimation of Spatio-Temporal Multilevel Model with Structural Change.
77. Lucagbo, MS, 2013: Estimation of Isotonic Spatio-Temporal Model with Clustering.
78. Asaad, PhD, 2013: Nonparametric Bootstrap Inference in a Multivariate Spatial-Temporal Model.

79. Ang, MOS, 2014: Cross-Country Analysis of Maternal Mortality Ratio.
80. Del Prado, PhD, 2014: Spatio-Temporal Mixed Model in Small Area Estimation of Data from Rotated Panel Surveys.
81. Lansangan, PhD, 2014: Simultaneous Dimension Reduction and Variable Selection in Modeling High Dimensional Data.
82. Eustaquio, MS, 2014: Nonparametric Hypothesis Testing in Clustered Survival Model.
83. Tobias, MS, 2014: A Comparison of Parametric and Nonparametric Estimation of Multiple Input Transfer Function Model.
84. Olivares, MS, 2014: Robust Estimation of Clustered Multiple Time Series with Structural Change
85. Data, MS, 2014: Estimation of Independent Multiple Time Series Model with Structural Change.
86. Paragas, MS, 2014: Estimation of Multilevel Model with High Dimensional Data.
87. Oberos, MOS, 2014: Estimation in Repeitative Surveys: The Case of Employment Data. (w/ J. Lansangan)
88. Abeto, MOS, 2014: SPCR-Based Control Chart for Autocorrelated Processes with High Dimensional Inputs. (w/ J. Lansangan)
89. Ramos, MS, 2014: Estimation of Multiple Time Series with Volatility. (w/ J. Lansangan)
90. Villejo, MS, 2015: Robust Estimation of a Dynamic Spatio-Temporal Model with Structural Change. (w/ J. Lansangan)
91. Saavedra, MS, 2015: Robust Inference in Regression Models. (w/ J. Lansangan)
92. Alao, MS, 2015: Semiparametric Estimations of Mixed Analysis of Covariance Model. (w/ J. Lansangan)
93. Borlongan, MS, 2016: Robust Simultaneous Confidence Interval Estimation of Principal Component Loadings. (w/ J. Lansangan)
94. Raguindin, MS, 2016: Semiparametric Probit Model for High Dimensional Clustered Data. (w/ J. Lansangan)
95. Da-ano, MS, 2016: Robust Inference in a Heteroscedastic Multilevel Linear Model with Structural Change. (w/ J. Lansangan)

96. Estoy, MS, 2016: Quantile Regression and REML Approach for Robust Regression of Clustered Data. (w/ J. Lansangan)
97. Arbizo, MOS, 2016: Time Series Forecasting Models for New Serologically Confirmed HIV Cases in the Philippines.
98. Claveria, MS, 2016: A Nonparametric Regression-Based Test for Overdispersion. (w/ J. Lansangan)
99. Retumban, MS, 2016: Robust Estimation of a Nonlinear Regression Model: Hybrid of a Modified Forward Search Algorithm and Bootstrap. (w/ J. Lansangan)
100. Macapinlac, MS, 2016: Estimation Procedure for a High Dimensional Dynamic Autoregressive Model. (w/ J. Lansangan)
101. Nieto, MOS, 2016: Episodes of Urinary Tract Infection in Post-Renal Transplant Patients Based on Count Regression Models.