

Joseph Ryan Garcia Lansangan, Ph.D.

Associate Professor, UP School of Statistics

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Education

Graduate Level

- Doctor of Philosophy in Statistics (2014)
School of Statistics, University of the Philippines, Diliman, Quezon City
- Master of Science in Statistics (2006)
School of Statistics, University of the Philippines, Diliman, Quezon City

Tertiary Level

- Bachelor of Science in Statistics (2002), Magna cum Laude
School of Statistics, University of the Philippines, Diliman, Quezon City

Research and Other Academic Activities

Recent Paper Publication

- Nalica, A.D. and J.R.G Lansangan (2014), Identifying Influencers of Consumers Activity: A Case Study in Predictive Modelling, *The Philippine Statistician*, Vol. 63, No. 1 , pp. 93-101
- Lansangan, J.R.G. . (2013), Sparse Principal Component Regression, *The Philippine Statistic*, Vol. 62, No. 1., pp. 33-50
- Barrios, E.B. J.R.G. Lansangan (2012), Forecasting Costumer Lifetime Value: A Statistical Approach, *Philippine Management Review*, Vol. 19, pp. 23-24
- Tumanan, M.A.R. and J.R.G. Lansangan (2012), More than just a cuppa coffee: A Multidimensional Approach toward Analysing the Factors that Define Place Attachment, *International Journal of Hospitality*
- Lansangan, J.R.G. (2011), A Dose of Business Intelligence: Data Mining, *The Philippine Statistician*, Vol. 60, pp. 125-128
- Barrios, E., Lansangan, J., and J. Daquis (2011), Impact Assessment of the E-AGRIKultura Project: Philippines, in D. Grimshaw and S. Kala, eds., *Strengthening Rural Livelihoods:*

The impact of information and communication technology in Asia; Warwickshire: Practical Action Publishing and International Development Research Centre, pp. 86-107

- Dumanjug, C., Barrios, E., and Lansangan J. (2010), Bootstrap Procedures in a Spatial-temporal Model, *Journal of Statistical Computation and Simulation*, Vol. 80, Issue 7, pp. 809-822.
- Tumanan, M.A.R. and J.R.G. Lansangan, J. (2010). "I Drink Thus I Am": A Study on the Dimensionalities of Place Attachment to Local Coffee Shops in the Philippines; *Conference Proceedings: 16th Asia Pacific Tourism Association, Macao S.A.R., China, 13-16 July 2010, pp. 53-61*
- Lansangan, J.R.G. and E.B. Barrios (2010). Forecasting Customer Lifetime Value: *Conference Proceedings: 11th National Convention on Statistics, EDSA Shangri-La, 4-5 October 2010*
- Nalica, A.D., E.B. Barrios, J.R.G. Lansangan (2010). Identifying Influence of Consumer Activity; *Conference Proceedings: 11th National Convention on Statistics, EDSA Shangri-La, 4-5 October 2010*
- Santos, L.A., J.R.G. Lansangan, E.B. Barrios (2010). Estimation of Dynamic Panel Data Models for Expenditure Items: *Conference Proceedings: 11th National Convention on Statistics, EDSA Shangri-La, 4-5 October 2010*
- Lansangan, J.R.G. and E.B. Barrios(2009), Principal Components Analysis of Non-stationary Time Series Data, *Statistics and Computing*, Vol. 19, pp. 173-178
- Tumanan, M.R. and Lansangan J.R.G. (2009). More Than just a Cuppa Coffee: A Multi-dimensional Approach towards Analyzing the Factors that Define Place Attachment, *Conference Proceedings; 15th Asia Pacific Tourism Association, Incheon, Korea, 9-12 July 2009, pp. 205-214*

Recent Paper Presentation and Panel/Plenary Discussions

- Simultaneous Dimension Reduction and Prediction Optimization: Methods and Application to High Dimensional Data – *60th ISI World Statistics Congress (ISI2015), Rio de Janeiro, Brazil, 26-31 July 2015*
- Identifying Influencers of Consumers Activity: A Case Study in Predictive Modelling – *Philippine Studies Conference by the Philippine Studies Association, Inc., National Museum of the Philippines, Manila, 12-14 November 2014*

- *Discussant, Integrating Sampling Weights with Cognitive Diagnosis Models, by Santos, K.C.P. and M.B. Borlongan – ISI Regional Statistics Conference, Sasana, Kijang, Kuala Lumpur, Malaysia, 16-19 November 2014*
- *Discussant, Nonparametric Bootstrap Inference in a Multivariate Spatial-Temporal Model: A Simulation Study, by Asaad, A.S. and E.B. Barrios – ISI Regional Statistics Conference, Sasana Kijang, Kuala Lumpur, Malaysia, 16-19 November 2014*
- *Discussant, Spatial-Temporal Mixed Model In Small Area Estimation of Data from Rotated Panel Surveys, by Del Prado, D.G.L. and E.B. Barrios – ISI regional statistics Conference, Sasana, Kuala Lumpur, Malaysia, 16-19 November 2014*
- *Simultaneous Dimension Reduction and Variable Selection in Modeling High Dimensional data – with E.B. Barrios, 21th International Conference on Computational Statistics (COMPSTAT 2014), Geneva, Switzerland, 19-22 August 2014*
- *Competency of Graduating Students and Entry Level Workers in ITBPO – 12th National Convention on Statistics, EDSA Shangri-La, 1-2 October 2013*
- *Measuring the Philippine ICT Industry – with P. Abejo, E.B. Barrios, G.M.F. Sarte, A.D. Nalica, C.S. Labina, K.C.P. Santos, I.I.M. Gauran, M.D.C. Lucagbo, M.V. Supranes, S.J. Villejo, K.A. Retumban, 12th National Convention on Statistics, EDSA Shangri-La, 1-2 October 2013*
- *High Dimensional Data Analysis – 11th National Convention on Statistics, PSA-UPSS Lecture Series, EDSA Shangri-La, 4-5 October 2010*
- *Forecasting Costumers Lifetime Value – with E.B. Barrios, 11th National Convention on Statistics, EDSA Shangri-La, 4-5 October 2010*
- *Identifying Influence of Consumers Activity – presented by A.D. Nalica, together with E.B. Barrios, 11th National Convention on Statistics, EDSA Shangri-La, 4-5 October 2010*
- *Estimation of Dynamic Panel Data Models for Expenditure items – presented by L.A. Santos, together with E.B. Barrios, 11th National Convention on Statistics, EDSA Shangri-La, 4-5 October 2010*
- *“I Drink Thus I Am”: A Study on the Dimensionalities of Place Attachment to Local Coffee Shops in the Philippines – presented by M.A. Tumanan, 16th Asia Pacific Tourism Association, Macao S.A.R., China, 13-16 July 2010*
- *Inducing Sparsity in the Regression Problem: the SPCR Framework – Colloquium of the Data Visualization Group, UP School of Statistics, Diliman, Quezon City, Philippines, 12 March 2010*

- Sparse Principal Component Regression – *3rd International Conference on Computational and Financial Econometrics, Limassol, Cyprus, 29-31 October 2009*
- More Than Just A Cuppa Coffee: A Multi-dimensional Approach towards Analyzing the Factors that Define the Place Attachment – *15th Asia Pacific Tourism Association, Incheon, Korea, 9-12 July 2009*

Journal Editorials/ Reviews

- Journal of Statistical Computation and Simulation (Reviewer, 2015)
- The Philippine Statistical (Association Editor, 2015; Reviewer, 2012-2016)

Thesis Advising

- 2016: (Adviser) Supranes, Michael Van; MS Statistics; Thesis: *Dimension Reduction Strategies for Modeling Bi-clustered High Dimensional Data*; graduated May 2016
- 2016: (Co-advised with Dr Erniel Barrios) Claveria, Johann Sebastian; MS Statistics; Thesis: *A Nonparametric Regression-based Test for Overdispersion*; graduated May 2016
- 2016: (Co-advised with Dr Erniel Barrios) Macapinlac, Michelle; MS Statistics; Thesis: *Estimation Procedure for a High Dimensional Autoregressive Model*; graduated May 2016
- 2016: (Co-advised Dr Erniel Barrios) Retumban, Karl Anton; MS Statistics; Thesis: *Robust Estimation of a Nonlinear Regression Model: Hybrid of a New Forward Search Algorithm and Bootstrap*; graduated May 2016
- 2016: (Co-advised Dr Erniel Barrios) Da-ano, Ronrick; MS Statistics; Thesis: *Robust Inference in Multilevel Linear Model with Structural Change*; graduated May 2016
- 2016: (Co-advised Dr Erniel Barrios) Estoy, May Ann; MS Statistics; Thesis: *Tentative: Quantile regression*; graduated May 2016
- 2015: (Co-advised with Dr Erniel Barrios) Borlongan, Martin Augustine; MS Statistics; Thesis: *Robust Estimation of a Dynamic Spatio-temporal Model with Structural Change*; graduated 2015
- 2015: (Co-advised with Dr Erniel Barrios) Alao, Virgelio; Thesis: *Estimation in a Semiparametric Mixed Model*; graduated 2015
- 2015: (Co-advised with Erniel Barrios) Saavedra, Gay Marie; MS Statistics; Thesis: *Robust inference in Regression Models*; graduated 2015

- 2015: (Co-advised with Erniel Barrios) Villejo, Stephen Jun; MS Statistics; Thesis; *Robust Estimation of a Dynamic Spatio-temporal Model with Structural Change*; graduated 2015
- 2014: (Co-advised with Dr Erniel Barrios) Oberos, Mae Abigail; Master of Statistics; Thesis: *Estimation in Repetitive Surveys: The Case of Employment Data*; graduated December 2014
- 2014: (Co-advised with Dr Erniel Barrios) Ramos, Mark Louie; MS Statistics; Thesis: *Estimation of Multiple Time Series with Volatility*; graduated December 2015
- 2014: (Co-advised with Dr Erniel Barrios) Abeto, Paul Eric; Master of Statistics; Thesis: *SPCR-based Control Chart for Autocorrelated Processes with High Dimensional Exogenous Variables*; graduated December 2014

Thesis Reader, Critic and Panel Membership

- 2016: (Thesis Reader) Arbizo, Joseph; MoStatistics; Thesis: *Time Series Forecasting Models for New Serologically Confirmed HIV Cases in the Philippines*; graduates May 2016
- 2015: (Thesis Reader) Mojica, Maynard Bryan; MS Statistics; Thesis working title: *Demand-Side Analysis of Financial Inclusion using Two-level Nested Logit and Multivariate Probit Models*; graduated 2016
- 2014: (Thesis Panel Member) Ang, Mark Angelo; Master of Statistics; Thesis: *Cross-country Analysis of Maternal Mortality Ratio*; graduated April 2014
- 2013: (Thesis Panel Member) Pascual, Azero; Master of Statistics; Thesis: *Accelerated Life Testing of the Metal Film Capacitors and Life Study of Single Phase Electronic Watthour Meters*; graduated February 2014

Recent Coaching, Advising and other Academic Mentoring

- 2015: Coach to Mr Mariano Nino Oliva and Matthew Alden Ora for the NCR Philippine Statistics Quiz (PSQ), won First and Second Place; Mr Oliva won Fifth Place at National Level PSQ
- 2014: Coach to Mr Jerome Javier for the NCR Philippine Statistics Quiz, won Second Place
- 2013: Coach to Mr George Ringo Manabat for the NCR Philippine Statistics Quiz, won Second Place

- 2013: Adviser to Guntan, J.F., Padua, P.A. and M.V. Supranes, won the 2013 Best Undergraduate Student Paper titled “ *The Comeback of Cronbach’s: An Investigative Study on the Estimation Properties of the Usual and Adjusted Estimators of Cronbach’s Alpha under Indirect Range Restriction and Varying Scale Level*”, awarded during the School of Statistics’ Recognition Rites, April 2013

UP School of Statistics Courses Taught

- Stat 101: Elementary Statistics (2002,2003)
- Stat 121: Probability Theory 1 (2012 2)
- Stat 122: Probability Theory 2 (2006 2)
- Stat 124: Introduction to Programming (2005 1)
- Stat 125: Application software and Software packages (2005 2)
- Stat 131: Parametric Statistical Inference (2011 1, 2011 2, 2012 1, 2013 1, 2014 1)
- Stat 136: Introduction to Regression Analysis (2012 2, 2013 2)
- Stat 149: Introduction to Categorical Data Analysis (2005 2)
- Stat 196.1: Advance Statistical Computing (2011 2, 2012, 2013, 2014 2)
- Stat 210: Statistical Software (2004 1)
- Stat 222: Introduction to Statistical Inference (2014, 2; 2015, 2)
- Stat 231: Probability Theory (2015, 1)
- Stat 232: Parametric Inference (2015, 2)
- Stat 247: Data Mining and Business Intelligence (2014 1)
- Stat 280: Special Topics: Statistical Computing (2013 2)

Recent Services to Community/Consultancy/ Related Work

Resource Person/ Consultant/ Research Associate

- 2015 Government agency: Survey operations, Database management, and Analytics for program assessment
- 2015 Multi-media: Analyses and Mentoring
- 2014 IT-BPO: Training and supervision of projects
- 2014 Telecommunication: Conduct of training
- 2012-2014 Energy: Mentoring and trainings/ knowledge trainings
- 2012-2013 Government agency: Study on ICT industry mapping
- 2012 Government agency: Analyses on competency of graduating students

- 2010-2013 Multi-media: Analyses and Mentoring

Analyst/ Programmer

- 2015 Research foundation/ Government agency: Survey operations, Database programming, management and analytics for an impact assessment study
- 2014 Research foundation/ Government agency: Database programming, management and analytics for a nation-wide impact assessment of a government project on health facilities.
- 2013 International organization: Database management for a baseline data collection for impact evaluation
- 2012, 2013, 2014 Energy: Analyses of year-end satisfaction of clients.
- 2012 Research foundation/ Government agency: Database programming and analytics for different (national) surveys on health facilities and healthy facility clients.

Conduct of Trainings

- Basic Statistics; Statistics for Decision-Making
- Business Analytics and Data Mining Techniques
- Descriptive Statistics and Regression Methods using Minitab
- Introduction to ANOVA, Regression, and Logistic Regression using SAS
- Basic and Advanced Base SAS Programming; SQL Processing with SAS
- SAS Enterprise Miner; Data Mining Techniques Using SAS EM; SAS Enterprise Guide
- Statistical Computing and Data Mining using R

Professional Awards and Membership/ Positions Held

Awards and Recognitions

- UP Scientist 1, 2014-2016
- Sun Life Brilliance Professional Chair Award, 2014

Administrative Positions

- Director, UP Diliman Interactive Learning Center, June 2014-present
- Director, UPSS Statistical Computing Laboratory, 2011-2014
- Faculty Assistant to the Director, UPSS Statistical Computing Laboratory, 2005-2008

Committee Membership

- Ex-officio Member, UPD DRRM Sub-committee on Training, 2016
- Member-at-large, Curriculum Cluster C Committee, UPD, 2011-2013
- Member, Academic Personnel Committee, UPSS 2011-2014
- Member, Undergraduate Program Committee, UPSS since 2011
- Member, Research Committee, UPSS, since 2002
- Member, Statistical Computing Laboratory Committee, UPSS, since 2002

Academic/ Professional Membership

- Lifetime Member, Philippine Statistical Association, since 2010
- Board Member, UPAA School of Statistics Chapter, 2007-2014
- Treasurer, UPAA School of Statistics Chapter, 2007-2008
- Member, UP Statistical Center Research Foundation, Inc., since 2002
- Member, Phi Kappa Phi Honor Society UP Chapter, since 2002

**Character reference available upon request*