

# STEPHEN JUN VECERA VILLEJO

Assistant Professor, UP School of Statistics

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## Education

- M.S. Statistics, School of Statistics, University of the Philippines Diliman, June 2013 to June 2015  
Thesis Work: "Robust Estimation of a Dynamic Spatial-temporal Model with Structural Change"  
Elective Courses Taken:
  - Stochastic Calculus for Finance
  - Stochastic Processes
  - Computational Statistics
  - Advanced Applied Multivariate Analysis
- B.S. Statistics, University of the Philippines Diliman, June 2009- April 2013
  - School of Statistics Class Valedictorian and Magna Cum Laude
  - 2nd Place for the Best Undergraduate Student Paper Award
  - Recipient of Award for Academic Excellence in Science from the Science Education Institute, Department of Science and Technology
  - Recipient of Outstanding Scholarship in the Social Sciences from the Pi Gamma Mu International Honor Society in Social Sciences, University of the Philippines Chapter
  - Nominee of the *Gawad Chanselor para sa Natatanging Magaara*
  - Election to Membership (Junior Level) in the International Honor Society of Phi Kappa Phi, Chapter 045 University of the Philippines

## Work Experience

- Assistant Professor August 2015 to Present, School of Statistics, University of the Philippines Diliman
- Instructor June 2013 to August 2015, School of Statistics, University of the Philippines Diliman

### Courses Handled

- Stat 101 – Elementary Statistics
- Stat 117 – Mathematics for Statistics
- Stat 122 – Probability Theory II
- Stat 131 – Parametric Statistical Inference
- Stat 135 – Matrix Theory for Statistics
- Stat 222 – Introduction to Statistical Inference

### Panel Membership for Thesis

- "Time Series Forecasting Models for New Serologically Confirmed HIV Cases in the Philippines", 2016, Mr. Joseph L. Arbizo, Master of Statistics (MOS)

### Publications and Conference Papers

- Main Author, "Robust Estimation of a dynamic spatio-temporal model with structural change", *Journal of Statistical Computation and Simulation*, (2016)
- Sole Author, "Modelling Rice Yield in the Philippines using Dynamic Spatio-temporal Models", *The Philippines Statistician*, Volume 64 No. 2 (2015).
- Sole Author, "Classification and Prediction of Suicidal Tendencies of the Youth in the Philippines", *The Philippines Statistician*, Volume 64 No. 1 (2015).
- Main Author, "Determinants of Income Class in Philippine Households: Evidence from the Family Income and Expenditures Survey 2009", *The Philippines Statistician Volume 63 No. 2* (2014).
- Author, "Measuring the Philippine ICT Industry", 12th National Convention on Statistics, Mandaluyong City, Philippines

### Conferences

- Main Author, 9th Conference of the Asian Regional Section of the IASC, National University of Singapore, Singapore, 17-19 December 2015  
Paper: "Robust Estimation of a Dynamic Spatial-temporal Model with Structural Change"

- Presenter, 8th International Conference of the ERCIM WG on Computational and Methodological Statistics, University of London, United Kingdom, 12 – 14 December 2015  
Paper: "Modelling Rice Yield in the Philippines using Dynamic Spatio-temporal Models"
- Presenter, Research Colloquium by the Commission on Higher Education, Higher Education Development Center Building CHED, 21 July 2015  
Paper: "Robust Estimation of a Dynamic Spatial-temporal Model with Structural Change"
- Co-Author, Business Informatics and Management BIM 2015, Asia Hotel Bangkok, Thailand, 28-29, April 2015  
Paper: "Patterns of Private Transfers in the Philippines: Who Receives and Gives More"
- Finalist in the Best Paper Competition and Presenter, 14th Student-Faculty Conference on Statistical Sciences, Shangri-La Hotel, Mandaluyong City, Philippines, 1-2 October 2013;  
Paper: "Determinants of Income Class in Philippine Households: Evidence from the Family Income and Expenditures Survey 2009",
- Participant, National Convention on Statistics; Shangri-La Hotel, Mandaluyong City, Philippines; 1-2 October 2013
- Participant, 15th National Convention on Statistics, 24 September 2014; University Hotel, University of the Philippines, Diliman
- Moderator, 15th Annual Faculty-Student National Conference on Statistical Sciences, University of the Philippines Diliman, 24 November 2014  
Session: Weather Statistics

#### Research Experience/Consulting Work

- Research Associate, "2015 Survey of Agrarian Reform Beneficiaries", Department of Agrarian Reform, 2015 to present.
- Research Assistant, "A Rapid Assessment of the Agriculture and Fisheries Modernization Act (AFMA) (Phase 1 Evaluation)", A Project with the Department of

Agriculture and Development Academy of the Philippines, November 2014 to December 2015

- Consultant, National Grid Corporation of the Philippines – Customer Satisfaction Survey, June 2015 to January 2016
- Research Assistant, Information Communication Technology (ICT) Industry Mapping Project under SRTC, commissioned by DOST-ICTO, November 2012 – July 2013
- Research Assistant, "Impact of Climate Change on Health in Three Philippine Provinces", A Project with the Department of Health and Department of Science and Technology

### Trainings

- Speaker, "THESIS IT: Putting the "IT" Factor in your Thesis", by Junior Philippine Economics Society, at University of Santo Tomas, 12 September 2015

### Areas of Interest in Statistics

- Spatial-Temporal Models
- Statistical/Machine Learning
- Computational Statistics
- Data Mining and Business Intelligence
- Econometrics