

CURRICULUM VITAE

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My interest centers on the climate change science-society nexus and human-environment dynamics. I believe in approaching complex environmental problems with a big-picture perspective and harnessing interdisciplinary knowledge, methods and skills. My dissertation focused on using the Community Climate System Model (CCSM) with dynamic vegetation to simulate different tropical forest deforestation, analyzing both the carbon and biophysical impacts on climate, and exploring the policy implications. I also continue to work on the co-benefits aspect of managing climate change risks, such as synergizing climate change action planning (specifically adaptation) with disaster risk management and sustainable development. I have also expanded my modeling work to utilize the systems approach and systems dynamics in an urban risk management context and other environment and development applications.

I. EDUCATION and TRAINING

A. ACADEMIC BACKGROUND

- 2007 – 2011 *Ph.D. in Earth and Atmospheric Sciences*
Purdue University, Indiana
Schlumberger Faculty for the Future Fellow 2009 to 2011
Fulbright Scholar 2007 to 2011
Ross Fellow at the Purdue Climate Change Research Center (PCCRC) 2007
Blosser Environmental Travel Grant Recipient 2009
International Peace Scholarship Recipient (PEO International) 2007-08
- 2010 *Graduate Student Visitor, Advanced Study Program*
National Center for Atmospheric Research, Boulder, Colorado
- 2004 – 2007 *Master of Environmental Management*
Ateneo de Manila University and the University of San Francisco (joint degree program)
- 2001 – 2004 *Bachelor of Science, Major in Physics, Minor in Philosophy*
Ateneo de Manila University, Loyola Heights, Quezon City
Honors Received:
Summa cum Laude and Class Valedictorian, 2004
One of the Ten Outstanding Students of the Philippines, 2004
BPI Science Awardee, 2004
Champion of the Inter-University Technoquiz, 2001
Recipient of an Academic Scholarship, 2001-2004
- 1999 – 2001 University of the Philippines, Diliman
Honors Received:
Consistently on the University Scholars List, 1999-2001
Recipient of the UP Oblation scholarship, 1999-2001

B. TRAINING / WORKSHOPS ATTENDED

2017 Advanced Institute on Disaster Risk Reduction with Systems Approach for Slow-Onset Climate Disasters (AI-SOCD) focusing on Air Pollution, Sensors, and Big Data, International Council for Science (ICSU), Academia Sinica, Taipei, 10 July 2017 - 14 July 2017.

CLEWS (Climate, Land, Energy, Water Systems) Summer School, International Centre for Theoretical Physics, Trieste, ICTP, 12 June 2017 - 30 June 2017.

2nd Asia Pacific System Dynamics Conference, System Dynamics Society, National University of Singapore, 20 Feb. 2017 - 22 Feb. 2017.

Toward Building a Regional Platform for Disaster Risk Reduction in Asia, Kyoto University, Center for Integrated Area Studies, Kyoto University, 16 Dec 2015 - 19 Dec 2015.

Short Course on Urbanization and Health: Systems Approaches. United Nations University (UNU) International Institute for Global Health (IIGH). Kuala Lumpur, Malaysia, 2-6 June, 2014.

Advancing Modelling of Climate, Land Use, Energy and Water (CLEW) Interactions. Joint workshop of the International Atomic Energy Agency (IAEA) and International Centre for Theoretical Physics (ICTP), Trieste, Oct. 7-11, 2013

HOPE Meeting with Nobel Laureates. Japan Society for the Promotion of Science (JSPS). Tokyo, Japan, February 25 – March 2, 2013.

Brown International Advanced Research Institute on Climate Change and its Impacts: Regional Coupled Human-Natural Systems and Evidence-Based Policy Making. Brown University, June 9-23, 2012.

2012 Advanced Institute on the Forensic Investigation of Disasters, organized by START and the IRDR International Centre of Excellence (ICoE) in Taipei, together with IRDR International, ICSU and Taiwan's National Science and Technology Center for Disaster Reduction (NCDR). Funding for the Institute was provided by the IRDR ICoE in Taipei. Academia Sinica, Taipei, Taiwan, March 12-19, 2012.

II. PROFESSIONAL EXPERIENCE

A. WORK HISTORY

Jan. 2017 – present	Chair, Department of Environmental Science Ateneo de Manila University
June 2012 - present	Assistant Professor, Department of Environmental Science Ateneo de Manila University
Jan. 2015 – Dec. 2020	Junior Associate, Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy
2011 – 2014	Consultant, Die Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)
2011 – 2012	Program Manager, Klima Climate Center, Manila Observatory Lecturer, Physics Department, Ateneo de Manila University

- 2007 – 2011 Fellow / Research Assistant, Department of Earth & Atmospheric Sciences
Purdue University
Tasks:
- Research related to tropical deforestation and climate change, specifically, modeling deforestation rates and identifying REDD policy implications.
 - Research related to the terrestrial carbon cycle and El Nino using carbon fluxes derived from Transcom 3.
- 2006 – 2007 Project Development Officer
Manila Observatory (MO)
Tasks:
- Track proposals and ongoing projects.
 - Assist MO programs in developing project proposals for funding agencies.
 - Take the lead in developing and implementing interdisciplinary projects in the field of climate change and disaster risk management, particularly “Developing a Community-based Co-Benefits Framework for Climate Change Adaptation and Disaster Risk Management in Oriental Mindoro.”
 - Act as Project Coordinator for the project “Co-benefits of Climate Change Mitigation and Air Quality: Coordinator in Asia.”
- 2005 – 2006 Research Assistant
Manila Observatory (MO)
Tasks: Team member and Co-Author in the Following Projects:
- Mapping Philippine Vulnerability to Environmental Disasters (In conjunction with the Dept. of Environment & Natural Resources), particularly mapping risks to climate and weather-related disasters.
 - Establishment of Clean Development Mechanism National Authority, Operational Framework and Support Systems for the Philippines (Under UNDP and the Environmental Management Bureau)
- 2004 – 2006 Faculty
Physics Department, Ateneo de Manila University (ADMU)

B. ONGOING and RECENT PROJECTS

Coastal Cities at Risk in the Philippines: Investing in Climate and Disaster Resilience, funded by the International Development Research Centre. (Ongoing; Work Theme Leader)

Capacity Building in Asia for Resilience EducaTion (CABARET), implemented by international team headed by the University of Huddersfield, funded by Erasmus+. (Ongoing; Technical Lead of ADMU team)

Lifelong Learning in Science and Society: Assessing the Science Literacy of Undergraduate Students of an Institution of Jesuit Higher Education in the Philippines, funded by University Research Council, Ateneo de Manila University. (Ongoing; Collaborator)

Hazards, Tipping Points, Adaptation and Collapse in the Indo-Pacific World", implemented by an international team headed by James Warren, funded by Australian Linkage Council (ARC) Linkage Grants with Ateneo University Research Council counterpart. (Ongoing; Co-Project Leader of Ateneo team)

An Analysis of Science Communication in the Context of Extreme Rainfall and Flooding Events. Implemented by the Dept. of Environmental Science and the Dept. of Communication, Ateneo de Manila University, funded by the Philippine Higher Education Research Network of CHED. (Ongoing; Co-Project Leader)

International Research Initiative on Adapting to Climate Change (IRIACC) – Coastal Cities at Risk (CCaR) Project. Implemented by the Manila Observatory and funded by IDRC in cooperation with SEA-START (Ongoing; System dynamics modeler)

An Application of Supply Chain Analyses to Assess Indirect Vulnerability to Climate Change: A Pilot Study of Metro Manila. Implemented by the Dept. of Environmental Science and the School of Management, funded by the University Research Council, Ateneo de Manila University. (2014-2016; Principal Investigator)

An International Survey Initiative on “Students, Consumption and the Environment.” Implemented by the Department of Environmental Science, Ateneo de Manila University, in cooperation with Zhejiang University, China, and Universidad se Estacio de Sa, Brazil, funded by Brown University. (2012-2014; Principal Investigator of the Ateneo de Manila University; Co-investigator of international team).

Developing Climate Change Vulnerability Indices for Comprehensive Land Use Plan and Comprehensive Development Plan (CLUP-CDP) and the National Climate Change Action Plan (NCCAP). Funded by GIZ. (2013-2014; GIZ Consultant)

Harmonizing FORIN for Climate Change Adaptation and Disaster Risk Management to Develop Multi-sectoral Narratives for Metro Manila, implemented by the Manila Observatory and funded by the International START Secretariat (2012-2013; Principal Investigator)

Linking European, African, Asian Academic Networks on Climate Change (LEAN-CC) funded by Erasmus Mundi, in cooperation with a consortium of universities in Europe, Asia and South Africa (2011-2013; Core Team Member of the Ateneo de Manila University)

Developing a Resource Book for Integrating Climate Change Action Planning (CCAP) and Disaster Risk Reduction and Management (DRRM) in the Comprehensive Land Use Plan funded by GIZ, in cooperation with the Philippine Climate Change Commission (2012; Manila Observatory Technical Consultant working with GIZ)

Inventory of Methods for Adaptation to Climate Change Project in the Philippines (InventCCA) funded by GIZ, in cooperation with the Philippine Climate Change Commission (2011-2012; Manila Observatory Technical Consultant working with GIZ)

C. RESEARCH PUBLICATIONS

Quintal, A.L., **Gotangco, C.K.**, Guzman, M.A.L. Forecasting Urban Expansion in the Seven Lakes Area in San Pablo City, Laguna, Philippines, Using the Land Transformation Model. *Environment and Urbanization ASIA* (in publication).

Ponce de Leon, I. and **Gotangco, C.K.** Balancing Paradigms in Climate Change Communication Research to Support Climate Services. Springer Handbook on Climate Change Communication (in publication).

Ponce de Leon, I. and **Gotangco, C.K.** Understanding Communication Needs: A Marikina Barangay Experience Linking Flooding to Climate Change Communication. Springer Handbook on Climate Change Communication (in publication).

Labaria, E. C., **Gotangco, C. K.**, & Caleda, M. J. (2017). Framing the Role of and Defining Criteria for Usefulness of Citizen Satisfaction Surveys in Local Urban Environmental Management: The Case of the Local Government Unit of Quezon City, Philippines. *Environment and Urbanization ASIA*, 8(2), 214-229.

Gotangco, C. K., Favis, A. M., Guzman, M. A. L., Tan, M.L.,... & Josol, J. C. (2017). A supply chain framework for characterizing indirect vulnerability. *International Journal of Climate Change Strategies and Management*, 9(2), 184-206.

- Gotangco, C. K.**, See, J., Dalupang, J. P., Ortiz, M., Porio, E., Narisma, G., ... & Dator-Bercilla, J. (2016). Quantifying resilience to flooding among households and local government units using system dynamics: a case study in Metro Manila. *Journal of Flood Risk Management*, 9(3), 196-207.
- Ponce de Leon, I. and **Gotangco, C.K.** (2013) Reconciling Post-Positivist and Post-Modern Worldviews in Climate Research and Services. *WMO Bulletin*, 62, 45-48.
- Gotangco, C. K.**, et al. (2013) Harmonizing FORIN for Climate Change Adaptation and Disaster Risk Management to Develop Multi-sectoral Narratives for Metro Manila. IRDR International Centre of Excellence–Taipei Technical Report No. 3. Available from: <http://www.start.org/download/2014/ai-irdr/gotangco-forin-projectreport.pdf>.
- Gotangco Castillo, C. K.**, & Gurney, K. R. (2013). A sensitivity analysis of surface biophysical, carbon, and climate impacts of tropical deforestation rates in CCSM4-CNDV. *Journal of Climate*, 26(3), 805-821.
- Gotangco Castillo, C. K.**, Raymond, L., & Gurney, K. R. (2012). REDD+ and climate: thinking beyond carbon. *Carbon Management*, 3(5), 457-466.
- Gotangco Castillo, C. K.**, Levis, S., & Thornton, P. (2012). Evaluation of the new CNDV option of the Community Land Model: Effects of dynamic vegetation and interactive nitrogen on CLM4 means and variability. *Journal of Climate*, 25(11), 3702-3714.
- Gotangco Castillo, C. K.**, & Gurney, K. R. (2012). Exploring Surface Biophysical-Climate Sensitivity to Tropical Deforestation Rates Using a GCM: A Feasibility Study. *Earth Interactions*, 16(4), 1-23.
- Gurney, K. R., **Castillo, K.**, Li, B., & Zhang, X. (2012). A positive carbon feedback to ENSO and volcanic aerosols in the tropical terrestrial biosphere. *Global Biogeochemical Cycles*, 26(1).
- Huizenga, C., **Castillo, C. K.**, Ajero, M., & Sanqui, D. C. (2008). The co-benefits approach: an integrated policy response to climate change and development in Asia. *Climate change negotiations: Can Asia change the game*. Edited by Christine Loh, Andrew Stevenson and Simon Tay. Hong Kong Civic Exchange and Singapore Institute of International Affairs.
- Castillo, C. G.** (2006). Consequentialism and Climate Change Policy: An Exploratory Paper. *Eubios Journal of Asian and International Bioethics*, 16(6), 182-192.
- Choy, **Castillo**, Uy and Villarin. (2005). Ambient SO₂ Monitoring using Differential Optical Absorption Spectroscopy. *Loyola Schools Review Vol. IV 2005*, Ateneo de Manila University.

D. RESEARCH PRESENTATIONS

- Oral Presentation: C. Kendra Gotangco, John Wong, Justin See, Emil Gozo, Flordeliza del Castillo, John Edward Perez, John Paolo Dalupang, Celine Vicente, Emma Porio, and Antonia Yulo-Loyzaga, "Exploring a GIS-SD Approach for Quantifying Health Sector Resilience based on Leptospirosis Infections", Seventh International Conference on Flood Management (ICFM7), 5 Sep 2017, University of Leeds.
- Oral Presentation: Francis Gealogo, Charlotte Kendra Gotangco, Francis Navarro, Ma. Aileen Leah Guzman, Marco Lagman and Maria Cleofe Marpa, "The 1880 Earthquake in Cavite Puerto: An HGIS Application to History of Disaster", ANGIS Philippines 2016: State of the Art in Historical GIS in Asia, 1 Dec 2016, University of the Philippines, Diliman.
- Oral Presentation: Inez Ponce de Leon and Charlotte Kendra Gotangco, "Understanding Different Communication Needs of Different Stakeholders: a Marikina barangay experience", Universities and Climate Change: the Role of Higher Education Institutions in Addressing the Mitigation and Adaptation Challenges, Manchester, United Kingdom, 1 Sep 2016, Manchester Metropolitan University.

- Oral Presentation: Chaochao Gao, Yuqing Pan, C. Kendra Gotangco, Maria Cecilia Trannin, Yonghong Liu, "Perceptions of Climate Change and Carbon-intensity of Lifestyle and Consumption Patterns in College Students", Universities and Climate Change: the Role of Higher Education Institutions in Addressing the Mitigation and Adaptation Challenges, 31 Aug 2016, Manchester Metropolitan University.
- Plenary Speaker, Favis, Guzman, Tan; the CCaR Manila Team (Loyzaga, Porio, Narisma, Dator-Bercilla, et al), "A Systems Approach to Understanding Risk and Vulnerability of Cities: A Case Study of Metro Manila", Building Consilience of the Natural and Social Sciences: Hazards, Tipping Points, Adaptation and Collapse in the Indo-Pacific World, 25 May 2016, Nanyang Technological University, Singapore.
- Plenary Speaker: C.K.Gotangco, J. See, J.P. Dalupang, M. Ortiz, E. Porio, G. Narisma, A. Yulo-Loyzaga, J. Dator-Bercilla, "Quantifying Resilience to Flooding among Households and Local Government Units using System Dynamics: A Case Study in Metro Manila", Framing the Sustainable Humanosphere in Southeast Asia: A Dialogue between Social and Natural Scientists (Center for Southeast Asian Studies, Kyoto University and Southeast Asian Studies Program of the School of Social Sciences, Ateneo de Manila University), 18 Mar 2016, Faber 302.
- Plenary Speaker: C. Kendra Gotangco, Abigail Favis, Aileen Guzman, Marion Tan, "Assessing Indirect Vulnerability to Climate Variability and Change using a Supply Chain Framework: A Pilot Study of Metro Manila", International Conference-Workshop on Toward Building a Regional Platform for Disaster Risk Reduction in Asia (Center for Integrated Area Studies, Kyoto University and the Institute of Philippine Culture, School of Social Sciences, Ateneo de Manila University), 2 Mar 2016, Faber Hall, Ateneo de Manila University.
- Oral Presentation: Tan, Gotangco, Favis, Guzman, "Assessing Supply Chains using the Climate Change Vulnerability Lens", 3rd National Business Management Conference (NBMC 2015), 23 Oct 2015, St. Louis University, Baguio City.
- Oral Presentation: Inez Ponce de Leon and Kendra Gotangco, "How do Audiences Understand Weather Warnings? A Study of Two Filipino Cities", Asia Oceania Geosciences Society (AOGS) 12th Annual Meeting, 2 Aug 2015, Singapore.
- Oral Presentation: C. Kendra Gotangco, Aileen Guzman, Abigail Favis, Marion Tan, Mary Joy Ann Chua, Kevin Bartolome, Carissa Quintana, "An Application of Supply Chain Analyses to Assess Indirect Vulnerability to Climate Change: A Pilot Study of Metro Manila", Association for Environmental Studies and Sciences 2015 Conference, 24 Jun 2015, UC-San Diego.
- Plenary Speaker: Charlotte Kendra Z. Gotangco, "Enhancing Scenario Use for Local Assessments and Actions", Intergovernmental Panel on Climate Change (IPCC) Expert Meeting on Scenarios, 18 May 2015, International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria.
- Oral Presentation: Ma. Aileen Leah Guzman, Charlotte Kendra Gotangco, Rene Juna Claveria, Philippe Joshua Evarado, "The Development of an Ecological Risk Assessment Method for Land Uses Posing a Risk to Marikina City's River System," 3rd National and 1st International Conference and Workshop on Environmental Science: Strengthening ASEAN Partnership through Environmental Education and Research for a Sustainable Future, 24-25 November 2014, Ateneo de Manila University.
- Plenary Speaker: Yulo-Loyzaga, Porio, Narisma, Dator-Bercilla, Gotangco, Clarete, Wong, et al., "The Coastal Cities at Risk (CCaR) Project: A Multi-sectoral Systems Approach for Metro Manila," 6th International Conference on Flood Management - ICFM6: "Floods in a changing Environment", 16 Sep 2014, Maksoud Plaza Hotel, Sao Paulo, Brazil.
- Oral Presentation: Gotangco, See, Dalupang, Ortiz, Porio, Dator-Bercilla, Yulo-Loyzaga, Narisma, "Quantifying Resilience to Flooding among Households and Local Government Units using System Dynamics: The Case of

Metro Manila,” 6th International Conference on Flood Management - ICFM6: "Floods in a changing Environment", 16 Sep 2014, Maksoud Plaza Hotel, Sao Paolo, Brazil.

Plenary Speaker: C. Kendra Gotangco, “Connecting the Dots: Systems Thinking for the Environment and Sustainability,” Ateneo Institute of Sustainability (AIS) Seminar Series, 10 Sept. 2014, Ateneo de Manila University.

Oral Presentation: C. Kendra Gotangco, Kevin Bartolome, Cecilia Trannin, Chaochao Gao, "A Survey Initiative on "Students, Consumption and the Environment": The Ateneo de Manila University", Asia-Oceania Geosciences Society (AOGS) 11th Annual Meeting, 28 Jul 2014, Royton Sapporo Hotel, Sapporo, Japan.

Plenary Speaker: C. Kendra Gotangco, “Climate change and Agriculture: Understanding projections and impacts,” Department of Agrarian Reform (DAR) Climate-proofing Workshop, 21 October 2013, Antipolo.

Plenary Speaker: Rosa Perez and C. Kendra Gotangco, “Key Elements of Vulnerability Assessments: Applications in the Energy Sector” and “Examples of Impacts/Vulnerability Assessments on Energy Systems: A Literature Survey,” Department of Energy (DOE) Climate-proofing Workshop, April 25-26, 2013, Ortigas Center, Metro Manila.

Oral Presentation: C. Kendra Gotangco, Kevin Gurney, Leigh Raymond, “Biophysical-Carbon-Climate Feedbacks of Tropical Deforestation: Implications on REDD Policy”, Asia-Oceania Geosciences Society (AOGS) 10th Annual Meeting and Conference 2013, 24 June 2013, Brisbane.

Oral Presentation: Jairus Carmela Josol, C. Kendra Gotangco, Gemma Narisma, Celine Vicente , Severino Salmo III, and Abigail Marie T. Favis, “Feasibility of developing a physical hazard index model for climate change and disaster risk management (CCA-DRM) using a system dynamics approach: the case of Metro Manila”, Asia-Oceania Geosciences Society (AOGS) 10th Annual Meeting and Conference 2013, 24 Jun 2013, Brisbane.

Oral Presentation: Gotangco, C. Kendra, Jessica Dator-Bercilla, Inez Ponce de Leon, "National Climate Change Action Planning: Experiences in the Philippines", APEC Workshop on Climate Change Adaptation in the Asia-Pacific: Observations and Modeling Tools for Better Planning, Four Seasons Hotel, Orchard, Singapore, 16 Aug 2012.

Oral Presentation: Gotangco Castillo, C.K. and I. Ponce de Leon, "Communicating Climate Change and Disaster Risk in the Philippine Context: Challenges and Opportunities", Joint Assembly of the Asia Oceania Geosciences Society (AOGS) and the American Geophysical Union (AGU), Resorts World Convention Center, Singapore, 13 Aug 2012.

Plenary Presentation: “Surface Biophysical-Carbon-Climate Sensitivities to Tropical Deforestation: Do the Pathways Matter in Both Science and Policy?” Samahang Pisika ng Pilipinas (Physics Society of the Philippines) Congress, National Institute of Physics, University of the Philippines, Oct. 25, 2011.

Oral Presentation: “Land Surface Biophysical-Climate Impacts of Tropical Deforestation with Time-dependence: Sensitivity to Deforestation Rates,” American Geophysical Union (AGU) Fall Meeting, Moscone Convention Center, San Francisco, Dec. 13-17, 2010.

Oral Presentation: “Thinking Outside the Carbon Box: Surface Biophysical & Climate Sensitivity to Deforestation Rates,” 4th Graduate Climate Conference, Pack Forest Conference Center, Washington, Oct. 15-17, 2010.

Oral Presentation: “Advancing quantitative understanding of the feedbacks between climate change, deforestation, and land-use decisions: ‘Putting people into CCSM4’,” Climate and Global Dynamics Division (CGD) Research Reports, National Center of Atmospheric Research (NCAR), Boulder, Colorado, 8 April 2010.

Oral presentation: "Thinking Outside the Carbon Box: Science and Policy Issues of Tropical Deforestation-Climate Feedbacks," Ateneo Innovation Center, Quezon City, Philippines, on 11 January 2010.

Oral presentation: "Thinking Outside the Carbon Box: Science and Policy Implications of Climate Change and Deforestation." Manila Observatory Seminar Series, Quezon City, Philippines, 7 August 2009.

Oral presentation: "Climate Change and Deforestation: Thinking Outside the Carbon Box," The Philippine-American Academy of Science and Engineering (PAASE) 29th Annual Meeting and Symposium entitled "Linking Science and Development", Ateneo de Manila University, Quezon City, Philippines, 13 July 2009.

Poster Presentation. "The influence of El Nino/Southern Oscillation and volcanic aerosols on tropical terrestrial carbon flux." With co-author Kevin R. Gurney. American Geophysical Union (AGU) Fall Meeting, 18 December 2008.

Poster presentation. "Quantifying the Physical and Socio-economic Feedbacks between Climate Change and Deforestation: A Framework for Comprehensive Decision-making." With co-authors Kevin R. Gurney, Matt Huber, & Gerry Shively. Purdue Climate Change Research Center (PCCRC) Fall Mixer, 21 November 2008.

Poster presentation: "Creating a Climate for Change: Communicating Climate Change by Integrating Quality of Life Issues." Student research showcase of the Ecological Sciences and Engineering (ESE) Symposium on 9 November 2007. The poster won 2nd place.

Plenary Speaker: : "Mapping Water Resources and Risks". With co-authors Vicente et al., Presented at the 1st Annual Water Environment Protection Association (WEAP) National Conference, Cebu, 2006.

Oral Presentation: E.R. Castillo, C.K.G. Castillo, et al. "Mapping Philippine Risk: A GIS-based Analysis of Climate- and Weather-related Disasters". Sustaining a Resilient Asia-Pacific Community: Issues and Solutions and abstract published in proceedings, East West Center, Hawaii, 2006.

Oral Presentation. E.R. Castillo, C.K.G. Castillo and J.R. Villarin, S.J. "Comparative Analysis of Statistical Reduction and Classification Methods for Philippine Rainfall". 23rd Samahang Pisika ng Pilipinas Congress, Iloilo, 2005.

E. MEMBERSHIP in TECHNICAL PANELS and ORGANIZATIONS

2017 – present	<i>Member, System Dynamics Society</i>
2013 – present	<i>Secretary, Board of Directors (BoD), Philippine Fulbright Scholars Association (PFSA)</i>
2012 – present	<i>Member, Working Group on Regional Climate (WGRC), World Climate Research Programme (WCRP)</i>
2012 – present	<i>Member, Asia-Oceania Geosciences Society (AOGS)</i>
2010, 2012	<i>Member, American Geophysical Union</i>
2008 – present	<i>Member, Golden Key Honours Society</i>
2008 – 2011	<i>Co-coordinator, Earth & Atmospheric Sciences - Women in Science Program</i>
2006 – 2007	<i>Member, Partnership for Clean Air</i>
2006 – 2007	<i>Member, UN Online Volunteers</i>