Jae-Young Ko

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EDUCATION

PhD in Environmental Science State, University of New York, College of Environmental Science and Forestry (SUNY-ESF), Syracuse, New York.

M.A. in Political Science, Syracuse University, Syracuse, New York.

M.A. in Public Administration, Hankuk University of Foreign Studies, Seoul, Korea.

B.A. in Public Administration (minor: economics), Hankuk University of Foreign Studies, Seoul, Korea.

ACADEMIC APPOINTMENTS

- 2013-Present: Associate Professor, Dept. of Public Policy and Administration, Jackson State University (JSU), Jackson, Mississippi.
- 2005-2013: Assistant Professor, Dept. of Marine Sciences, Texas A&M University at Galveston (TAMUG), Galveston, Texas.
- 2008-2013: Participating faculty, MARB-IDP (Interdisciplinary Graduate Program in Marine Biology), Texas A&M University.
- 2000-2005: Postdoctoral Researcher, Coastal Ecology Institute, Louisiana State University (LSU), Baton Rouge, Louisiana (Supervisor: Dr. John W. Day).
- 1998-2000: Research Associate, Coastal Ecology Institute, Louisiana State University, Baton Rouge, Louisiana (Supervisor: Dr. John W. Day).

HONORS & AWARDS

- 2011 TAMUG President's Meritorious Service Award for Outstanding Classroom Teaching
- 2010 TAMUG Service Award.
- 2005. Team Achievement for the Completion of the Louisiana Coastal Area (LCA), Louisiana Ecosystem Restoration Study, presented by the U.S. Army Corps of Engineers and the State of Louisiana.

RESEARCH EXPERIENCE

Research Interests

In general, my research interests are in the area of:

- 1. Environmental and energy policy
- 2. Human dimension of natural ecosystem management
- 3. Institutional analysis of natural resources management, including common pool resources
- 4. Urban management/urban services
- 5. Evolution of environmentalism

Peer Reviewed Publication

(* Denotes student)

(H-index: 9, from the Google Scholar)

[Times cited by the Google Scholar (as of January 12, 2015)]

- 25. **Ko**, **J.-Y.**, J. W. Day, R. R. Lane, R. Hunter, D. Sabins, K. L. Pintado, and J. Franklin. 2012. Policy adoption of ecosystem services for a sustainable community: a case study of wetland assimilation using natural wetlands in Breaux Bridge, Louisiana. *Ecological Engineering* 38:114-118. http://dx.doi.org/10.1016/j.ecoleng.2011.10.009.
- 24. **Ko, J.-Y.**, G. A. Jones, M.-S. Heo, Y.-S. Kang*, and S.-H. Kang*. 2010. A fifty-year production and economic assessment of common property-based management of marine living common Resources: a case study for the women divers communities in Jeju, South Korea. *Marine Policy* 34:624-634. http://dx.doi.org/10.1016/j.marpol.2009.11.013_ [4 times]
- 23. Brantley, C. G., J. W. Day, R. R. Lane, E. Hyfield, J. N. Day, and **J.-Y. Ko**. 2008. Primary production, nutrient dynamics, and accretion of a coastal freshwater forested wetland assimilation system in Louisiana. *Ecological Engineering* 34:7-22. http://dx.doi.org/10.1016/j.ecoleng.2008.05.004 [23 times]
- 22. **Ko, J.-Y..** 2007. An explanation for South Korean experience in economic development, pp.127-141. In Leclerc, G., and C. A. S. Hall (Eds.). Making World Development Work: Scientific Alternatives to Neoclassical Economic Theory. University of New Mexico Press, Albuquerque, New Mexico.
- 21. Hall, C. A. S. and **J.-Y. Ko**. 2007. The myth of efficiency through market economics: a biophysical analysis of tropical economies. pp.90-103. In Leclerc, G., and C. A. S. Hall. (Eds.). Making World Development Work: Scientific Alternatives to Neoclassical Economic Theory. University of New Mexico Press, Albuquerque, New Mexico. [2 times]
- 20.Day, J. W., J. Barras, E. Clairain, J. Johnston, D. Justic, G. P. Kemp, **J.-Y. Ko**, R. R. Lane, W. Mitsch, G. Steyer, P. Templet, and A. Yanez-Arancibia. 2005. Implications of global climatic change and energy cost and availability for the restoration of the Mississippi delta. *Ecological Engineering* 24:253-265. http://dx.doi.org/10.1016/j.ecoleng.2004.11.015. [93 times]
- 19. Hall, C. A. S. and **J.-Y. Ko**. 2005. The myth of efficiency through market economics: a biophysical analysis of tropical economies, especially with respect to energy, forest and water. pp. 40-58. In Bonell, M., and L.A. Bruijnzeel (Eds.). Forests, Water and People in the Humid Tropics: Past, Present and Future Hydrological Research for Integrated Land and Water Management. Cambridge University Press. Cambridge, UK. 944 pp. [8 times]

- 18. Hall, C. A. S., and **J.-Y. Ko**. 2005. Energy and international development: a systems approach to economic development. pp. 73-90. In Ortega, E., and S. Ulgiati (Eds.). Proceedings of 4th Biennial International Workshop: Advances in Energy Studies: Energy-Ecology issues in Latin America. Grafica da Universiduel Estadual de Campinas, SP, Brazil.
- 17. **Ko**, **J.-Y.**, J. W. Day, R. R. Lane, and J. N. Day. 2004. A comparative evaluation of money-based and energy-based cost-benefit analyses of tertiary municipal wastewater treatment using forested wetlands vs. sand filtration in Louisiana. *Ecological Economics* 49:331-347. http://dx.doi.org/10.1016/j.ecolecon.2004.01.011. [48 times]
- 16. **Ko, J.-Y.**, and J. W. Day.2004. A review of ecological impacts of oil and gas development on coastal ecosystems in the Mississippi Delta. *Ocean & Coastal Management* 47:597-623. http://dx.doi.org/10.1016/j.ocecoaman.2004.12.004 [63 times]
- 15. **Ko**, **J.-Y.**, and J. W. Day.2004. Impacts of energy development in wetlands: the Mississippi delta. Encyclopedia of Energy (Editor-in-Chief: C. Cleveland). Elsevier. Vol. 6: 397-408. [4 times]
- 14. **Ko**, **J.-Y.**, J. W. Day, and et al. 2004. The impacts of oil and gas activities on coastal wetland loss in the Mississippi Delta. pp. 957-977. In Caso, M., I. Pisanty, and E. Ezcurra (Eds.). Environmental Diagnosis of the Gulf of Mexico. Mexican National Institute of Ecology, Mexico City, Mexico. (Published in Spanish; translated into English version by Withers, K., and M. Nipper (Eds.) 2008. Environmental Analysis of the Gulf of Mexico. Harte Research Institute for Gulf of Mexico Studies, Texas A&M University at Corpus Christi. Special Publication Series No.1, http://www.harteresearchinstitute.org/whats-news/books, pp.608-621).[1 times]
- 13. Day, J. W., **J.-Y. Ko**, J. Rybczyk, D. Sabins, R. Bean, G. Berthelot, C. Brantley, L. Cardoch, W. Conner, J. N. Day, A.J. Englande, S. Feagley, E. Hyfield, R. Lane, J. Lindsey, J. Mistich, E. Reyes, and R. Twilley. 2004. The use of wetlands in the Mississippi Delta for wastewater assimilation: a review. *Ocean & Coastal Management* 47:671-691. http://dx.doi.org/10.1016/j.ocecoaman.2004.12.007 [95 times]
- 12. Day, J. W., P. Templet, **J.-Y. Ko**, et al. 2004. The Mississippi Delta: system functioning, environmental impacts, and sustainable Management. pp. 851-880. In Caso, M., I. Pisanty, and E. Ezcurra (Eds.). Environmental Diagnosis of the Gulf of Mexico. Mexican National Institute of Ecology, Mexico City, Mexico. Vol.2. (published in Spanish; translated into English version by Withers, K., and M. Nipper (Eds.) 2008. Environmental Analysis of the Gulf of Mexico. Harte Research Institute for Gulf of Mexico Studies, Texas A&M University at Corpus Christi. Special Publication Series, http://www.harteresearchinstitute.org/whats-news/books, pp.533-553.) [3 times]
- 11. **Ko**, **J.-Y.**, and John W. Day. 2003. A comparative energy analysis of utilizing natural wetlands for municipal wastewater treatment in Breaux Bridge, Louisiana. pp 481-489. In Ulgiati, S., M. Brown, M. Giampietro, R.A. Herendeen, and K. Mayumi (Eds.). Advances in Energy Studies: Reconsidering the Importance of Energy. Servizi Grafici Editoriali (SGE), Padova, Italy. [0 times]
- 10. **Ko, J.-Y.,** and C. A. S. Hall. 2003. The correlation between GDP and both energy use and emergy use. pp. 51-59. In Brown, M.T., H. T. Odum, D. Tilley, and S. Ulgiati (Eds.). EMERGY SYNTHESIS: Theory and Applications of the Emergy Methodology. Center for Environmental

- Policy, University of Florida, Gainesville, Florida.
- 9. Day, J. W., A. Yanez-Arancibia, W. Mitsch, A. Laura Lara-Dominguez, J. N. Day, **J.-Y. Ko**, R. R. Lane, J. Lindsey, and D. Zarate Lomeli. 2003. Using ecotechnology to address water quality and wetland habitat loss problems in the Mississippi basin: a hierarchical approach. *Biotechnology Advances* 22:135-159. http://dx.doi.org/10.1016/j.biotechadv.2003.08.012. [87 times]
- 8. Day, J. W., J.-Y. Ko, J. Cable, J.N. Day, B. Fry, E. Hyfield, D. Justic, P. Kemp, R. Lane, H. Jashriqui, E. Reyes, S. Rick, G. Snedden, E. Swenson, P. Templet, R. Twilley, K. Wheelock, and B. Wissel. 2003. PULSES: The importance of pulsed physical events for Louisiana floodplains and watershed management. pp.693-699. In Renard, K.G., McElroy, S.A., Gburek, W.J., Canfield, H.E., and Scott, R.L. (Eds.). First Interagency Conference on Research in the Watersheds. U.S. Dept. of Agriculture, Agricultural Research Center, Tucson, Arizona. [13 times]
- 7. Kroeger, T., P. J. Tharaken, **J.-Y. Ko**, and C. A. S. Hall. 2001. The relation between energy intensity and sectoral composition of the economy: evidence from around the world. pp. 75-83. In Ulgiati, S., M. Brown, M. Giampietro, R.A. Herendeen, and K. Mayumi (Eds.). Advances in Energy Studies: Exploring Supplies, Constraints and Strategies. Servizi Grafici Editoriali (SGE), Padova, Italy.
- 6. **Ko, J.-Y.**, J. F. Martin, J. W. Day. 2000. Embodied energy and emergy analysis of wastewater treatment using wetlands. pp. 197-210. In Brown, M., S. Brandt-Williams, D. Tilley, and S. Ulgiati (Eds.). EMERGY SYNTHESIS: Theory and Applications of the Emergy Methodology. Center for Environmental Policy, University of Florida, Gainesville, Florida. [3 times]
- 5. Hall, C. A. S., J. Vargas, W. Ravenscroft, J.-Y. Ko, and O. Saenz. 2000. Data about sustainability: time series analysis of population, land use, economics, energy and efficiency for Costa Rica. pp. 91-120. In Hall, C.A.S., G. Leclerc, C. Leon, and P. Van Laake (Eds.). Quantifying Sustainable Development: The Future of Tropical Economics. Academic Press. San Diego, California. 761pp. [1 time].
- 4. **Ko, J.-Y.,** C. A. S. Hall, and L. G. Lopez Lemus. 1998. Resource use rates and efficiency as indicators of regional sustainability: an examination of five countries. *Environmental Monitoring and Assessment* 51:571-593. http://dx.doi.org/10.1023/A:1006095822024. [37 times]
- 3. **Ko, J.-Y.,** and Y.-J. Cha. 1998. An analysis of the U.S. environmental policy: a typology of environmental problems for government action. *International Area Review* 1(2): 133-146. (The journal is now renamed as *International Area Studies Review*.)
- 2. Hall, C. A.S., **J.-Y. Ko**, C.-L. Lee, and H.-Q. Wang. 1998. Ricardo Lives: The inverse relation of resource exploitation intensity to efficiency, and its relation to the myth of sustainable development. pp. 355-370. In Ulgiati, S., M. Brown, M. Giampietro, R.A. Herendeen, and K. Mayumi (Eds.). Advances in Energy Studies: Energy Flows in Ecology and Economy. MUSIS, Rome, Italy. [8 times]
- 1. Hall, C. A.S., R. G. Pontius, Jr., L. Coleman, and **J.-Y. Ko**. 1994. The environmental consequences of having a baby in the United States. *Population and Environment* 15: 505-523. http://dx.doi.org/10.1007/BF02211721. (Reprinted in 1995, in Wild Earth, 5(2): 78-87). [31 times]

Manuscripts in Revision or Under Review

(* Denotes student)

- **Ko, J.-Y.**, W. Merrell, W. Seitz, N. Ekstrom*, E. Shelton*, and L. Mulcahy* An integrative valuation study of ecosystem services for an estuarine ecosystem: a case study for Galveston Bay, Texas. *Ecological Economics* (Accepted pending revision).
- **Ko, J.-Y.,** J. W. Day, and J. B. Haywood*. Challenges in implementing outputs of collaborative planning for coastal restoration: Lessons from operation of the Carnarvon river diversion in Louisiana. *Coastal Management* (Accepted pending revision).
- Branson*, A., L. Curley*, J. Hicks-McGowan*, C. Roby*, and **J.-Y. Ko**. An assessment of payday lending practices in the Metro-Jackson Area, Mississippi, and potential policy responses. *Online Journal of Rural and Urban Research* (Under review)
- Brown*, R., and **J.-Y. Ko**. A correlation analysis of poverty with race, education, and economic well-being in Mississippi, and policy alternatives. *Online Journal of Rural and Urban Research* (Under review)

Manuscripts in Preparation

(* Denotes student)

- **Ko, J.-Y.,** and G. A. Jones. A comparative analysis of abalone harvest records between Jeju, Korea, California, USA, and Tasmania, Australia, using the common property framework. (Target journal: *Ocean Policy*)
- **Ko. J.-Y.,** G. A. Jones. Challenges and opportunities in modernizing historically well-established common property-based management institution of marine living resources: the women divers communities in Jeju, South Korea
- **Ko. J.-Y.**, and L. Gookin*. A comparative analysis of coastal restoration programs across the coastal zones of Louisiana and Texas.

Non-Peer Reviewed Publication

(* Denotes student)

- **Ko, J.-Y**., and J.W. Day. 2014. Lessons for collaborative governance of coastal restoration from the Carnarvon river diversion in Louisiana. Proceedings of Bays & Bayous Symposium 2014. Mobile Bay National Estuary Program, Mobile, Alabama.
- McDavitt*, L., F. Black*, M. Grant*, and **J.-Y. Ko**. 2014. Addressing Teen Birth in Southern Urban Communities. NAAAS & Affiliates Monograph Series (In Press)
- **Ko, J.-Y.**, and A. Armitage. 2011. Annotated Bibliography of Valuation of Ecosystem services for the Estuarine Environment. 2nd Ed. Prepared for Texas Sea Grant College Program, College Station, Texas.
- **Ko, J.-Y.**, W. Merrell, M. Hastings, N. Ekstrom*, E. Shelton*. 2007. Defining ecosystem services of Galveston bay and corresponding appropriate valuation methods. In The proceedings of the Eighth biennial state of the bay symposium, Galveston Bay Estuary Program, Webster, Texas.

- **Ko, J.-Y..** 2007. The Economic Value of Ecosystem Services Provided by the Galveston Bay/Estuary System (project report). Prepared for Texas Commission on Environmental Quality, Galveston Bay Estuary Program, Webster, Texas.
- **Ko, J.-Y.**, N. Eckstrom*, and E. Shelton*. 2007. Annotated Bibliography of Valuation of Ecosystem services for the Estuarine Environment. Prepared for the Galveston Bay Estuary Program, Webster, Texas.
- Day, J. W., **J.-Y. Ko,** and R. R. Lane. 2003. Nitrogen farming demonstration project: Louisiana Coastal Zone Case Study. In Nitrogen Farming Pilot Projects-White Paper-Draft. The Wetlands Initiative, Chicago, Illinois.
- Day, J. W., and **J.-Y. Ko**. 2002. Some results from monitoring multiple aspects of the Caernarvon river diversion for spring 2001. *CoastWise* 11(2): 10-11.
- Day, J. W., R. R. Lane, and **J.-Y. Ko**. 2000. The Use of Swamp Forests Near Breaux Bridge, Louisiana for the Discharge of Treated Municipal Wastewater: Monitoring the Effects of the Discharge for 1998 and 1999. Submitted to the City of Breaux Bridge, Louisiana.
- **Ko, J.-Y.** 1996. Municipal solid waste policy and its implementation in the United States: focusing on Onondaga County, New York. *Report on local administration in foreign countries* 96(1): 51-76. (Seoul, Korea, in Korean).

Research Grant Participation

- **Ko, J.-Y**. 2015. Quantifying potential for adaption by minority members of local coastal communities for enhancing resiliency against global scale environmental challenges in the coasts of Mississippi and Louisiana. (Sponsor: Gulf of Mexico Research Initiative; \$446,041; on hold).
- **Ko, J.-Y**. 2015. Sustainable Community Development for the Mississippi Delta Region in the State of Mississippi under the globalized economy. Submitted to the JSU Creative Award for Faculty and Staff (\$5,000; unfunded).
- **Ko, J.-Y.** 2013. Policy Dimension of Sustainable Natural Resources Management in the State of Mississippi. Submitted to the JSU Creative Award for Faculty and Staff (\$5,000; unfunded).
- Day, J. W., R. Boumans, R. Costanza, **J.-Y. Ko**, D. Batker, and R. Lane. 2011. Ecosystem service identification, valuation, mapping and modeling of critical Gulf of Mexico ecosystem services in three sites and the development generalized valuation tools. Submitted to the Gulf of Mexico Regional (Co-sponsors: NOAA, EPA) (Amount requested: \$650,856; my portion: \$102,714; Reached the final round, not funded)
- **Ko, J.-Y.** 2011. An exploratory study of assessing the potential capacity of conservation efforts as an alternative to meet the growing freshwater demands for the metropolitan area of Houston, Texas, and Secure Higher Freshwater Inflow for the Galveston Bay, Texas. Submitted to Texas Sea Grant College Program (Amount requested: \$57,589; Not funded)
- Wu, W., P. Biber, and **J.-Y. Ko**. 2010. The impact of accelerated sea level rise on coastal wetlands: its implications for carbon storage, coastal fishery production and associated economic values.

- Submitted to the NASA/USDA-Carbon Cycle (Total amount requested: \$408,802; my portion: \$145,549; Proposed project period: 1/1/2011-12/31/2013; Not funded)
- Wu, W., P. Biber, K. Yeager, and **J.-Y. Ko**. 2010. Collaborative research: salt marsh mitigation in response to accelerated sea level rise: implications for carbon sequestration and associated economic values. Submitted to the NSF, EAR-Geomorphology (Total amount requested: \$396,884; my portion: \$79,758; Proposed project period: 9/1/2010-8/31/2013; Not funded)
- Wu, W., P. Biber, J.-Y. Ko, and K. Yeager. 2009. Regional variability in carbon sequestration along the Northern Gulf of Mexico: economic implications and impacts of land use / land cover change and accelerated sea level rise. Submitted to the Gulf of Mexico Regional Natural Hazard and Climate Change Resiliency Research and outreach Program. (Co-sponsors: Gulf of Mexico Sea Grant programs, EPA, USGS; Total amount requested: \$399,925; my portion: \$71,030; Not funded)
- **Ko, J.-Y.**, and G. Jones. 2009. Historical, economic and ecosystem analysis of the Texas shrimp industry: Challenges and policy responses for a sustainable future. Submitted to Texas Sea Grant College Program (Amount requested: \$93,064; Not funded)
- Armitage, A., A. Quigg, and **J.-Y. Ko**. 2007. Influence of sea level rise on ecology and economics of coastal freshwater treatment wetlands. Submitted to the DOE, National Institute for Climate Change Research (Amount requested: \$248,436; Not funded)
- **Ko, J.-Y.**, and A. Armitage. 2007. A comparative study of market and non-market valuations for selected ecosystem services of Galveston Bay. Submitted to Texas Sea Grant College Program (Amount awarded: \$59,983; Project period: February 2008 January 2010; Supported students: Allison Parnell (MARM)).
- **Ko, J.-Y.** 2006. Studies related to the economic value of ecosystem services provided by the Galveston Bay/Estuary system. Submitted to Houston Advanced Research Center and Galveston Bay Estuary Program. (Amount awarded: \$64,485; Project period: May 1, 2006 April 15, 2007; Supported students: Nicole Ekstrom (MARM)).
- Day, J. W., P. Templet, P. Kemp, and **J.-Y. Ko**. 2003. Quantifying potential conflicts and improving stakeholder support in operating a Mississippi River diversion for coastal ecosystem restoration by applying systematic information processing and multicriteria analysis. Submitted to Louisiana Sea Grant College Program (Amount awarded: \$153,969; Project period: February 2004 January 2006).
- Reyes, E., J. W. Day, **J.-Y. Ko**, and S. S. Hoppner. 2003. Restoration assessment of a forested watershed using a regional modeling approach. Submitted to Louisiana Governor's Office of Coastal Activities (GOCA). (Amount awarded: \$168,989; Project period: October 2003 October 2005).
- Day, J. W. (PI), et al. 2002. Conceptual ecological models for planning and evaluating the Louisiana coastal area (LCA) restoration plan. Submitted to University of Louisiana at Lafayette (Original sponsor: Louisiana Department of Natural Resources; Amount awarded: \$331,656; Project period: July 1, 2002- June 30, 2003).
- Day, J. W, and **J.-Y. Ko**. 2001. Development of a framework for the analysis of feedbacks and linkages between functioning and management of the Louisiana coastal zone and the broader ecological and economic system. Submitted to Louisiana Sea Grant College Program (Amount awarded: \$97,736; Project period: February 2002 January 2004; NOAA Grant No. NA16RG2249).

- Reyes, E. and **J.-Y. Ko**. 2000. Using the Western Bays Landscape Model (WBLM) to simulate sediments and suspended sediment distribution in the Vermilion and Cote Blanche Bays under the Jetty and Reef scenarios. Submitted to US Army Corps of Engineering, New Orleans District (Amount awarded: \$6,160; Project Period: November 2000 February 2001).
- Day, John W. (PI), et al. 1999. PULSES-the Importance of pulsed physical events for watershed sustainability in coastal Louisiana. Submitted to Water & Watersheds Program of the EPA grant (Co-sponsors: NSF and USDA; EPA Grant Number: R828009; Amount awarded: \$899,995; Project Period: February 2000 February 2003).
- **Ko, J.-Y.** 1995. Municipal solid waste management in the United States- focusing on Onondaga County, New York. Submitted to the Korea Local Authorities Foundation for International Relations, Seoul, Korea (Amount Awarded: \$736).

Invited Presentations

- 2015. "A review and its potential of common property-based management for sustainable coastal marine living resources." Faculty Research Seminar, JSU Dept. of Public Policy and Administration, March 30.
- 2015. "Challenges in developing and implementing coastal protection projects against increasing sea level rise: a case study of the Carnarvon river diversion in Louisiana." The 3rd Annual HBCU Student Climate Change Conference. Dillard University, New Orleans, Louisiana, March 26-29.
- 2014. "Challenges in implementing outputs of collaborative planning for coastal restoration: Lessons from operation of the Carnarvon river diversion in Louisiana." JSU Public Policy and Administration Program, Brown Bag Seminar. March 21.
- 2013. "Challenges in applying policy tools for sustainable coastal resource management: valuation of ecosystem service and common property-based management." Dept. of Environmental Studies, University of North Carolina at Wilmington, Wilmington, North Carolina. Febuary 14.
- 2013. "Trends, challenges and prospects of municipal solid waste management in the US: Lessons from a case study of Syracuse, NY." Dept. of Geography & Environmental Studies, Northeastern Illinois University, Chicago, Illinois. March 11.
- 2012. "Policy dimension of offshore wind power development in the United States." The 4th KOEA/KSEA (Korean-American Offshore Engineers Association/Korean American Scientist and Engineers Association) South Texas Joint Technical Seminar, Houston, Texas. February 16.
- 2010. "A marine policy analysis for common property-based management of marine living resources: Women divers communities in Jeju, South Korea." The Recent Advances in Marine Science Seminar Series. Texas A&M University at Galveston, September 7.
- 2008. "Valuing ecosystem services of estuarine ecosystem as a coastal management tool: a case study for Galveston Bay." The 11th Annual Coastal Management Southern and Caribbean Regional Meeting. Austin, Texas. October 28.
- 2008. "Valuation of ecosystem services: a case study for quantifying economic benefit of improving water quality using natural wetlands." The Recent Advances in Marine Science Seminar Series.

- Texas A&M University at Galveston, October 14.
- 2007. "Economic value of ecosystem services provided by the Galveston Bay estuary system." Galveston Bay Estuary Program (GBEP), Webster, Texas, May 28.
- 2001."Caernarvon Pulsing Study." Louisiana Association of Conservation Districts, Marsh Conservation Committee. Seventeenth Annual Summer Meeting. Caernarvon, Louisiana. July 19.
- 2001. "Challenges in Environmental Management." Institute of Environmental Studies. Louisiana State University, Baton Rouge, Louisiana. February 14.
- 2000. "Ecological Economics Assessment of Tertiary Municipal Wastewater Treatment Using Natural Wetlands." Institute of Environmental Studies. Louisiana State University, Baton Rouge, Louisiana. November 1.
- 2000. "Quantifying Sustainable Development: Past, Present, and Future of the Costa Rican Economy."

 Institute of Environmental Studies. Louisiana State University, Baton Rouge, Louisiana. October 11.

Conference Presentations Since 2007

(* Denotes student)

- **Ko, J.-Y.**, and J.W. Day. 2015. Challenges in Implementing Collaborative Governance for Large-Scale Ecosystem Restoration Project: A Case Study of the Carnarvon River Diversion in Louisiana. Annual conference of American Society for Public Administration (ASPA), Chicago, Illinois, March 6-10.
- Haywood*, J., and **J.-Y., Ko**. 2015. An assessment of ruling political party role for community development in the Mississippi Delta region. Annual Conference of Mississippi Political Science Association (MSPSA), Jackson, Mississippi, February 13-14.
- **Ko, J.-Y.**, and J.W. Day. 2014. Lessons for collaborative governance of coastal restoration from the Carnarvon river diversion in Louisiana. Bays & Bayous Symposium 2014, Mobile, Alabama, December 2-3.
- **Ko, J.-Y**. 2014. Policy dimension of employing ecosystem services for sustainable community: A case study of wetland assimilation of municipal wastewater using natural wetlands. Southeastern Conference of Public Administration (SECOPA), Atlanta, Georgia, September 17-20.
- McDavitt*, L., F. Black*, M. Grant*, and **J.-Y. Ko**. 2014. Addressing teen birth in Southern urban communities. International Research Forum, sponsored by National Association of African American Studies & Affiliates (NAAAS), Clinton, Mississippi, April 27-May 1.
- **Ko, J.-Y.**, and J. W. Day. 2012. Money- and embodied energy-based valuations for wetlands utilization of wastewater treatment. The 9th INTECOL International Wetlands Conference. Orlando, Florida. June 3-8.
- **Ko, J.-Y.**, W. Merrell, and W. Seitz. 2011. A comparative assessment of ecosystem services for Galveston Bay, Texas. The 21st Biennial Conference of the Coastal and Estuarine Research Federation. Daytona Beach, Florida. November 6-10.

- Cardenas, A.*, T. Dellapenna, and **J.-Y. Ko.** 2011. Economic valuation of Sabine Bank: sand resource versus fishery habitat. The 21st Biennial Conference of the Coastal and Estuarine Research Federation. Daytona Beach, Florida. November 6-10 (Poster).
- **Ko, J.-Y.**, and G. Jones. 2011. A comparative analysis of abalone harvest records between Jeju, Korea and California, USA, using the common property framework. The 103th Annual Meeting of National Shellfisheries Association. Baltimore, Maryland. March 27-31.
- **Ko, J.-Y.**, A. Parnell*, and A. R Armitage. 2010. A comparative study of money-and energy-based valuations of ecosystem services for improving water quality in Armand Bayou, Galveston Bay. The 9th Texas Sea Grant Researcher Conference. University of Texas at Austin, Marine Science Institute, Port Aransas, Texas. October 7-8.
- **Ko, J.-Y.**, and C. A. S. Hall. 2010. Epistemological comparative analysis of neoclassical and biophysical economics: A valuation study of wetlands utilization of wastewater treatment using money, embodied energy, and emergy analyses. The 6th Biennial Conference: Emergy & Environmental Accounting. Gainesville, Florida. January 14-16.
- Parnell, A.*, **J.-Y. Ko**, K. A. Schwerh, and A. R Armitage. 2009. Effects of Anthropogenic Nutrient Enrichment on Restored and Exotic Aquatic Vegetation in Armand Bayou, Texas. The 20th Biennial Conference of the Coastal and Estuarine Research Federation. Portland, Oregon. November 1-5.
- Merrell, W., and **J.-Y. Ko.** 2009. The City of Galveston Community Recovery Committee: A Case Study of Citizen Involvement in Post Disaster Recovery Planning. The 20th Biennial Conference of the Coastal and Estuarine Research Federation. Portland, Oregon. November 1-5 (Poster).
- **Ko, J.-Y.,** G. Jones, M.-S. Heo, Y.-S. Kang*, and S.-H. Kang*. 2009. Examination of conditions for successful common property management for coastal marine living resources: a case study of women divers communities in Jeju, South Korea. The 20th Biennial Conference of the Coastal and Estuarine Research Federation. Portland, Oregon. November 1-5.
- **Ko, J.-Y.** 2009. Epistemological comparative analysis of neoclassical and biophysical economics. The 2nd International Biophysical Economics Conference. SUNY-ESF, Syracuse, New York. October 16-17.
- Parnell, A.*, **J.-Y. Ko**, K. A. Schwehr, and A. R. Armitage. 2009. Nutrient impacts on restored and exotic aquatic vegetation: a step towards the valuation of ecosystem services in Armand Bayou, Galveston Bay. The 8th Texas Sea Grant Researcher Conference. Texas A&M University at Galveston, Galveston, Texas. September 22.
- Jones, G., **J.-Y. Ko**, J. Peterson*, and A. McInnes*. 2009. Using Hurricane Ike to Assess the FEMA 100/500yr Flood Line on Galveston Island. Texas Coastal Conference 2009. Galveston, Texas, June 4-5.
- Carlin, J.*, **J.-Y. Ko**, and G. Jones. 2009. An energy accounting associated with catching through serving red snapper in Galveston, Texas. The 9th Biennial State of the Bay Symposium. Galveston, Texas, January 13-14.
- Armitage, A. R., A. Parnell*, and J.-Y. Ko. 2008. Preliminary assessment of nutrient impacts on restored

freshwater wetlands: A first step for valuation of ecosystem services in Armand Bayou, Galveston Bay. Texas Sea Grant Researcher Conference. Texas A&M University, College Station, Texas, September 24.

- **Ko, J.-Y.,** W. Merrell, M. Hastings, N. Ekstrom*, and E. Shelton*. 2007. Valuation of ecosystem services for Galveston Bay: A case study for managing urbanizing estuarine ecosystem. The 19th Biennial Conference of the Estuarine Research Federation. Providence, Rhode Island. November 4-8.
- **Ko, J.-Y.,** W. Merrell, and W. Seitz. 2007. A Stakeholder survey for valuation of ecosystem services of Galveston Bay, Texas. The ASPBA-GLO (American Shore & Beach Preservation the Texas General Land Office) Fall Coastal Conference. Galveston, Texas, October 21-24.
- **Ko, J.-Y.**, W. Merrell, M. Hastings. 2007. Defining ecosystem services of Galveston bay and corresponding appropriate valuation methods. The 8th Biennial State of the Bay Symposium. Galveston, Texas. January 23-25.

Professional Society Affiliations

- American Society for Public Administration (ASPA) (2014-Present)
- Association for Public Policy Analysis and Management (APPAM) (2010-2014)
- Coalition to Restore Coastal Louisiana (CRCL) (2004-2011)
- Coastal & Estuarine Research Federation (2005-2013)
- International Society for Ecological Economics (1997-2014)
- International Society for the Advancement of Emergy Research (ISAER) (2010-Present)
- Korean-American Scientists and Engineers Association (KSEA) (2011-Present)
- KSEA-South Texas (2011-2014)
- Mississippi Political Science Association (MSPSA) (2015-Present)
- United States Society for Ecological Economics (2000-2014)

TEACHING EXPERIENCE

At Jackson State University (JSU)

Courses Taught

2014-2015

PPAD 560. Seminar in Politics of Environmental Administration. 3 credit hours. Fall. 3 students registered.

This course will cover the basic principles of environmental policy-making processes, and discuss the contemporary aspects of environmental problems as reflected in society, politics and business that are faced by administrators. The topics to be covered in class are science and policy for environment, air, coastal management, energy, fishery, hazardous waste, land management, municipal waste, water, and international environmental issues, including climate change.

PPAD 559/759 Seminar in Public Policy Analysis. 3 credit hour. Fall. 6 students registered.

This course provide a general and conceptual overview of the study of public policy as a major sub-field of public administration. It is designed to emphasize the policy process and include methods and techniques of policy analysis.

PPAD 581/781. Seminar in Community & Economic Development. 3 credit hour. Fall. 3 students registered.

This course provides students with a basic understanding of the broad field of community and economic development. It focuses on community and economic development activities carried out by the federal, state and local levels of government, as well as on the impact that the neighborhood development organization has had in this area.

PPAD 507 Quantitative Analysis. 3 credit hours. Spring. 3 students registered.

This course familiarizes students with the application of relevant research techniques to the problems of the public sector management and policy formulations.

PPAD 561 Government Regulation of Natural Resources. 3 credit hours. Spring. 6 student registered.

The legal and political problems faced by government when trying to regulate use of natural resources will be examined.

PPAD 586/786 Urban Problems & Non-Traditional Options. 3 credit hours. Spring. 12 students registered.

This course will cover major urban management issues, and discuss the strategies, tactics and techniques of municipal administration for the urban issues. After critical evaluations of the current managerial approaches, innovative models for approaching political issues unique to municipalities and the impacts of urbanization will discussed.

2013-2014

PPAD 581/781. Seminar in Community & Economic Development. 3 credit hour. Fall. 14 students

registered.

PPAD 560. Seminar in Politics of Environmental Administration. 3 credit hours. Fall. 5 students registered.

PPAD 557 Environmental Law. 3 credit hours. Spring. 2 students registered.

PPAD 561 Government Regulation of Natural Resources. 3 credit hours. Spring. 2 students registered.

PPAD 586/786 Urban Problems & Non-Traditional Options. 3 credit hours. Spring. 23 students registered.

PPAD 519/719 Problems of State Administration. 3 credit hours. Summer. 5 students registered. Online (hybrid).

Administrative operations in State government are reviewed with emphasis on planning research, purchasing and contracting, personnel and financial administration, reporting and public relations.

PPAD 712 Urban Management and Urban Services. 3 credit hours. Summer. 13 students registered. Online (hybrid).

Students examine and analyze the methods by which local public services are designed, delivered and evaluation.

Graduate Students Advised As Project Advisor

2015

Christina Spann (MPPA) presented an impact statement on Smoking Ban in the county for the Hinds County Board of Supervisors Meeting. April 20th.

LaTonya Curley (PhD) presented an impact statement on the County Detention Center for the Hinds County Board of Supervisors Meeting. April 20th.

2014

James Thompson (MPPA) was the recipient of the prestigious Robert L. Kline Award during the Southeastern Conference of Public Administration (SECOPA 2014), Atlanta, Georgia. September 17-20. The award recognizes the best research paper for Master's student.

SERVICE ACTIVITIES

Professional Services

Professional/Academic Society

Session chair for the annual conference of American Society for Public Administration (ASPA) 2015. Chicago, Illinois, Mar. 6-10, 2015.

Session chair and discussant for the annual conference of Mississippi Political Science Association (MSPSA) 2015. Jackson, Mississippi, Feb. 13-14, 2015.

Session chair for the 21st Biennial Conference of the Coastal and Estuarine Research Federation (CERF). Daytona Beach, Florida, Nov 6-10, 2011.

Ad Hoc Reviewer

For Article

Ecological Economics, Environmental Modelling & Software, Proceedings of the Emergy conference, Ocean & Coastal Management, Reviews in Ecological Economics, and Sustainability.

For proposal

Gulf Coast Ecosystem Restoration Council-Restore (year: 2014)

NSF-CREST (year: 2010, 2011)

NSF-BCS (year: 2014)

Louisiana Board of Regents, Research and Development Program (year: 2009)

Academic Services

At Jackson State University

2014-2015

At department level

- A program coordinator for the JSU Public Policy Student Symposium fall 2014, Dec. 4, 2014 (Fourteen PhD and MPPA students presented their research works on public policy issues.)
- A search committee member for a faculty search (position of health policy) (2014)
- A search committee member for a faculty search (position of health policy & public finance) (2015)
- A curriculum committee member (2013-Present)
- PPAD dept website coordinator (2014-Present)
- PPAD Grant Development Committee
- Host for a lecture speaker (Dr. Melvin Davis, Director of the Mississippi Urban Research Center, JSU; title: Workshop on the Inter-University Consortium for Political and Social Research (ICPSR) Data and Services) February 5, 2015.
- Host for a lecture speaker (Ms. Kay Whittington, Director of the Office of Land and Water Resources at MS Dept. of Environmental Quality, title: Sustainable Water Resources in Mississippi) October 17, 2014.

2013-2014

At department level

- A program coordinator (and founder) for the 2013 JSU Public Policy Student Symposium, Dec. 4th, 2013 (Twelve PhD and MPPA students presented their research works on public policy issues.)
- A program coordinator for the 2014 JSU Public Policy Student Symposium, April 22, 2014 (Twenty five PhD and MPPA students presented their research works on public policy issues.)
- A search committee member for a faculty search (position of public budgeting and finance) (2013-Present)
- A curriculum committee member (2013-Present)
- A faculty advisor for the PPAD Toastmasters (2013-Present).
- Host for a lecture speaker (Dr. Doris McPherson, Visiting professor, Dept. of Technology, Jackson State University, title: Challenges in Brownfield restoration in Jackson, Mississippi), Feb. 20, 2014.
- Host for a lecture speaker (Mr. Larry Bull, Assistant Director of Fisheries, MS Dept. of Wildlife, Fisheries, and Parks, title: Fishery Management in the State of Mississippi), Feb. 27, 2014.
- A Co-editor for the annual newsletter of the PPAD program.

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