

Dr. Dong-Yop Oh
Auburn University Montgomery
Information Systems
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Education

Ph D, The University of Alabama, 2012.
Major: Applied Statistics

MS, The University of Alabama, 2005.
Major: Applied Statistics

BA, Pukyong National University, 2001.
Major: Business Administration

BS, Pukyong National University, 2001.
Major: Physics

Development Activities Attended

Workshop, "2024 SAP Winter Workshops: SAP Cloud Analytics." (January 2024 - Present).

Workshop, "SAP Workshops, Winter 2022." (January 2022 - Present).

Workshop, "SAP Workshops, Winter 2021." (January 2021 - Present).

Workshop, "2023 SAP Winter Workshops: SAP Cloud Analytics." (January 2023).

Workshop, "SAP Workshops, Winter 2020," Huntsville, Texas. (January 6, 2020 - January 9, 2020).

Workshop, "SAP Workshops, Winter 2019," Huntsville, Texas. (January 7, 2019 - January 10, 2019).

Workshop, "Big Data: Proven Methods You Need to Extract Big Value," San Francisco, California. (April 3, 2016 - April 6, 2016).

Workshop, "R for Predictive Modeling," San Francisco, California. (March 15, 2014 - March 17, 2016).

Awards and Honors

Junior Faculty Award. (May 2020).

Clarence Dewitt Smith Scholarship Recipient. (2008).

Award of Meritorious Achievement in Outreach of Applied Statistics. (2007).

Clarence Dewitt Smith Scholarship Recipient. (2007).

Award of Meritorious Achievement in Applied Statistics. (2006).

Award of Meritorious Achievement in Applied Statistics. (2005).

TEACHING

Teaching Experience

Auburn University Montgomery

BUSN 2740, Business Statistics I, 5 courses.
BUSN 2750, Business Statistics II, 5 courses.
INFO 5550, Data Mining Methods and Appl., 1 course.
INFO 5880, Data Analytics for Comp Adv, 21 courses.
INFO 6590, Appl Bus and Data Analytics, 9 courses.
INFO 6900, Ind. Study/Data Analytics, 1 course.
QMTD 2740, Business Statistics I, 9 courses.
QMTD 2750, Business Statistics II, 4 courses.

University of Texas Rio Grande Valley

QUMT 8310, Applied Multivariate Data Analysis I, 2 courses.
QUMT 6310, Business Research Foundations, 5 courses.
QUMT 6303, Statistical Foundations, 5 courses.
QUMT 4343, QM for Decision Making in Business, 4 courses.
QUMT 3343, Statistical Method for Business, 14 courses.
QUMT 3341, Business Statistics II, 1 course.
QUMT 2342, Computational Methods in Business, 5 courses.

Directed Student Learning

Supervised Research, "Dynamics of Healthcare Expenditure and GDP in South Asia: Exploring Luxury vs Necessity," Information Systems and Decision Science. (January 2024 - Present).
Advised: Bhavana Kanumalla

Master's Thesis Committee Member, "Healthcare Information Technology adoption in Nigeria," Information Systems and Decision Science. (August 2022 - November 2022).
Advised: Christopher Edo

Supervised Teaching Activity, "Modeling House Price Prediction using Regression Analysis," Information Systems and Decision Science. (August 2022 - October 2022).
Advised: Quyen Huynh, Minh Duc Tran

Directed Individual/Independent Study, "Data Analytics," Information Systems and Decision Science. (August 2021 - October 2021).
Advised: Sivannarayana Gandikota

Supervised Research. (September 2018 - December 2019).
Advised: Franciscot Auguste

Supervised Research. (2016 - 2018).
Advised: Jae Young Hwang

Supervised Research. (2016 - 2017).
Advised: Valeria Obregon, Karen Cavazos

Supervised Research. (2015 - 2016).
Advised: Angelica Robles, Briana Castillo

RESEARCH

Published Intellectual Contributions

Refereed Journal Articles

- Oh, D.-Y., Yu, J., Lim, E.-S. (Accepted). Long-Run Equilibrium between Military Expenditure and GDP with Non-Linear Structural Breaks in NATO Member States. *Defence and Peace Economics*.
- Yu, J., Oh, D.-Y., Ashton, T., Wang, Y. (2023). Predicting eBook Purchases of Heterogeneous Social Groups in a Social Network Site Using Network Metrics. *International Journal of Mobile Communications*, 22(1), 92-110.
- Yu, J., Bang, C., Oh, D.-Y. (2020). The Effect of Non-cognitive Factors on Information Disclosure on Social Network Websites: Role of Habit and Affect. *Southern Business and Economic Journal*, 43(2). (accepted in 2022)
- Oh, D.-Y., Lee, H., Boulware, K. D. (2020). A comment on interest rate pass-through: a non-normal approach. *Empirical Economics*, 59(4), 2017-2035.
- Lee, H., Oh, D.-Y., Meng, M. (2019). Stationarity and cointegration of health care expenditure and GDP: evidence from tests with smooth structural shifts. *Empirical Economics*, 57, 631--652.
- Oh, D.-Y., Lee, H., Meng, M. (2018). More powerful threshold cointegration tests. *Empirical Economics*, 54(3), 887--911.
- Oh, D.-Y. (2017). Experiments to Parameters and Base Classifiers in the Fitness Function for GA-Ensemble. *International Journal of Statistics in Medical and Biological Research*, 1,, 1, 9--18.
- Oh, D.-Y., Lee, H. (2017). LM cointegration tests allowing for an unknown number of breaks: implications for the forward rate unbiasedness hypothesis. *Applied Economics*, 49(12), 1194--1203.
- Lee, H., Oh, D.-Y. (2016). Dealing with the initial observation in the LM unit root test. *Communications in Statistics-Simulation and Computation*, 45(10), 3660--3669.
- Oh, D.-Y., Gray, J. B. (2015). A graphic method for choosing the best parameter value of margins for maximising in GA-Ensemble. *International Journal of Services and Standards*, 10(3), 89--102.
- Shin, S., Oh, D.-Y. (2015). International equity market integration: evidence from ETFs. *International Journal of Electronic Finance*, 8(2-4), 124--148.
- Oh, D.-Y., Gray, J. B. (2013). GA-Ensemble: a genetic algorithm for robust ensembles. *Computational Statistics*, 28(5), 2333--2347.
- Yu, J., Ha, J.-W., Oh, D.-Y. (2008). Causes of conflicts of local information technology manager in multinational company. 12(1), 23.

Presentations Given

- Kanumalla, B., Oh, D.-Y., 2024 Society of Business, Industry, and Economics, "Dynamics of Health Care Expenditure and GDP in South Asia: Exploring Luxury vs. Necessity," Destin, FL. (April 2024).
- Lee, H., Oh, D.-Y., 2023 Southeastern Institute for Operations Research and the Management Sciences, "Long-run Relationship between Energy Consumption and GDP: Revealing Energy Decoupling with Smooth Structural Shifts," Myrtle Beach, South Carolina. (October 2023).
- Lee, H. (Presenter Only), Oh, D.-Y. (Author Only), 2023 Society of Business, Industry, and Economics, "Cointegration of energy consumption and GDP in the presence of smooth structural changes," Destin, FL. (April 14, 2023).
- Lee, H. (Author Only), Oh, D.-Y. (Author Only), Brooks, M. (Presenter Only), 2021 Decision Sciences Institute, "Investigating mean reversion of OECD stock prices: Evidence from tests using non-normal errors," Online. (November 2021).
- Oh, D.-Y., Yu, J., Ashton, T., Auguste, F., 2019 Decision Sciences Institute, "Predicting Book Purchases in a Social Network Site," New Orleans, LA. (November 2019).
- Oh, D.-Y., Lee, H., 2017 Joint Statistical Meetings, "Cointegration of Health Expenditure and GDP with Smooth Breaks," Baltimore, MD. (2017).
- Oh, D.-Y., 2017 Southwest Decision Sciences Institute, "Simulation Experiments to Determine Fitness Function Parameters and Effect of Classifier Complexity in Genetic Algorithm Ensemble," Little Rock, AR. (2017).
- Oh, D.-Y., Lee, H., 2016 Joint Statistical Meetings, "On the re-visited invariance property of LM cointegration test: Implications for the forward rate unbiasedness hypothesis," Chicago, IL. (2016).
- Oh, D.-Y., Gray, B., 2015 Joint Statistical Meetings, "Variants of GA-Ensemble," Seattle, WA. (2015).
- Oh, D.-Y., Lee, H., Lee, J., 2014 Joint Statistical Meetings, "More Powerful Threshold Cointegration Tests," Boston, MA. (2014).
- Oh, D.-Y., Gray, B., 2011 Joint Statistical Meetings, "Simulation Experiments to Determine Fitness Function Parameters for GA-Boost," Miami, FL. (2011).
- Oh, D.-Y., Gray, B., 2010 Joint Statistical Meetings, "An Improved Genetic Algorithm for Boosting in the Presence of Outliers," Vancouver, B.C., Canada. (2010).
- Oh, D.-Y., Gray, B., 2009 Joint Statistical Meetings, "GA-Boost: A Genetic Algorithm for Robust Boosting," Washington, D.C. (2009).

Contracts, Grants and Sponsored Research

Grant

Oh, D.-Y., (Co-investigator – Statistician), "How do ICT production and Use affect Economic Growth through Energy Consumption?: The Case of European Countries," Sponsored by King Fahd University of Petroleum and Minerals, \$7,590.00. (January 2024 - January 2025).

Oh, D.-Y., "New Faculty Research Start-Up Monies," Sponsored by Auburn University Montgomery, \$4,000.00. (2018 - 2021).

Oh, D.-Y. (Principal), "Simulation Experiments to Determine Fitness Function Parameters and Effect of Classifier Complexity in Genetic Algorithm Ensemble," Sponsored by University of Texas Rio Grande Valley, Other, \$2,000.00. (2016 - 2017).

Oh, D.-Y. (Principal), "Big Data: Proven Methods You Need to Extract Big Value," Sponsored by University of Texas Rio Grande Valley, Other, \$1,688.00. (2016).

Oh, D.-Y. (Principal), "R for Predictive Modeling," Sponsored by University of Texas - Pan American, Other, \$2,000.00. (2014).

Intellectual Contributions in Submission

Journal Articles

Yu, J., Oh, D.-Y., Alwahaishi, S. H. The Interplay between Noncognitive and Cognitive Factors in Determining Information Disclosure on Social Network Websites. *Pacific Asia Journal of the Association for Information Systems*. (under a second round of review)

Yu, J., Oh, D.-Y., Lim, E.-S. The Effect of ICT Production and Use on Energy Consumption: The Case of European Countries. *Energy Efficiency*. (under a second round of review)

Lee, H., Oh, D.-Y., Yu, J. Evidence of Energy Decoupling based on Long-Run Relationship between Fossil Fuel Consumption and GDP. *Applied Energy*. (under a second round of revision)

Kanumalla, B., Oh, D.-Y. Dynamics of Healthcare Expenditure and GDP in South Asia: Exploring Luxury vs Necessity'. *International Journal of Electronic Healthcare*.

SERVICE

Department Service

Committee Member, Ad-hoc MSMIS AOL Committee. (2024 - Present).

Committee Member, Dept. Stat Curriculum Committee. (2019 - Present).

Committee Member, Promotion Committee. (2023).

Committee Member, Faculty Search Committee. (December 2022 - February 2023).

Annual Review Committee. (2013 - 2018).

Committee Chair, Adjunct IS/QUMT Lecturer Search Committee. (2016 - 2017).

Committee Member, OYA QUMT Search Committee. (2015 - 2017).

Committee Member, Development of new QUMT courses. (2014 - 2015).

Committee Chair, Annual Review Committee. (2012 - 2013).

Committee Member, QUMT Faculty Search Committee. (2012 - 2013).

College Service

Committee Member, AOL Committee. (August 2023 - Present).

Committee Member, Graduate Curriculum Committee. (August 2023 - Present).

Committee Member, Dean Search Committee. (April 2024 - June 2024).

Committee Member, Ad-hoc MBA AOL Committee. (February 2024 - May 2024).

Committee Member, Strategic Planning Committee. (August 2022 - May 2023).

Committee Member, Faculty Development Committee. (August 2019 - May 2023).

Committee Member, Doctoral Student Comprehensive Exam Committee. (2012 - 2018).

Committee Member, Undergraduate Curriculum Committee. (2014 - 2015).

Committee Member, MBA Committee. (2012 - 2014).

University Service

Committee Member, Faculty Research Council. (August 2024 - Present).

Committee Member, Professional Improvement Leave. (August 2021 - Present).

Committee Member, Honors Committee. (August 2021 - May 2024).

Committee Member, Grievance hearing panel committee. (January 2023 - April 2023).

Committee Member, Core Curriculum Committee. (August 2019 - August 2021).

Committee Member, Faculty Senate. (2015 - 2018).

Professional Service

Reviewer, Journal Article, Journal of Business Analytics. (2023 - Present).

Editorial Review Board Member, Economics. (2020 - Present).

Reviewer, Journal Article, Empirical Economics. (2020 - Present).

Editorial Review Board Member, Global Economics Science. (2020 - Present).

Editorial Review Board Member, Economics and Management Science. (2019 - Present).

Reviewer, Journal Article, International Journal of Mobile Communications. (2019 - Present).

Reviewer, Journal Article, Southern Business and Economic Journal. (2019 - Present).

Reviewer, Journal Article, International Journal of Electronic Healthcare. (2014 - Present).

Reviewer, Journal Article, International Journal of Services and Standards. (2012 - Present).

Reviewer, Journal Article, Wiadomości Statystyczne. The Polish Statistician. (2020 - 2021).

Editorial Review Board Member, International Journal of Statistics in Medical and Biological Research. (2017 - May 2019).

Reviewer, Conference Paper, 2018 First International Conference on Data Intelligence and Security. (2018).

MIS Program Curriculum, Department of Accounting & MIS, KFUPM. (2018).

Reviewer, Journal Article, Information Systems Frontiers. (2015 - 2017).

Reviewer, Journal Article, Journal of Empirical Finance. (2015 - 2016).

Reviewer, Journal Article, Recent Patents on Engineering. (2013 - 2014).

Public Service

Alabama TSA. (2024 - Present).

Alabama TSA. (2023 - Present).

Alabama TSA. (2022 - Present).