PATRICK S. McCARTHY (June 2026)

SHORT BIO

Dr. Patrick McCarthy is Professor Emeritus in the School of Economics, Ivan Allen College of Liberal Arts at Georgia Institute of Technology. His research areas include transportation economics, regulation, and applied microeconometrics. He edited *Advances in Airline Economics Volume 11: COVID-19 and Airlines* (Emerald Publishers, November 2024), authored *Transportation Economics Theory and Practice: A Case Study Approach* (Blackwell Publishers, 2001), has published widely in academic journals, served on national committees and received funding from the Sloan Foundation, National Institutes of Health, Georgia Department of Transportation, the Federal Aviation Administration, National Science Foundation, and AAA Foundation for Traffic Safety. Prior to Georgia Tech, he spent two years at Concordia University (Montreal, Canada) and twenty-two years at Purdue University (West Lafayette, Indiana). He has held visiting positions in Greece, Singapore, Germany, and China.

GENERAL INFORMATION

Address

School of Economics, Georgia Institute of Technology, Atlanta, GA 30332
e-mail: mccarthy@gatech.edu
website: Pat McCarthy Webpage (google.com)

Academic Degrees

Ph.D., Economics, Claremont Graduate University, February 1977.
B.A., Economics, University of San Diego, 1971.

Georgia Institute of Technology (GIT, Atlanta, GA) Appointments

January 1, 2021 – present, Professor Emeritus, School of Economics
September 2011 – July 31, 2012, Interim Chair, School of Modern Languages
August 2011 – December 31, 2020, Professor, School of Economics
September 2003 – December 31, 2020, Director, Center for Paper Business and Industry Studies (CPBIS)
January 2001 – September 2003, Associate Director, Research, CPBIS
July 2000 – July 2011, Professor and Chair, School of Economics

Other Academic Positions

June 2023, June 2024 – Visiting Professor, CEFMS, Hunan University, Changsha, China.
September 2017 – April 2022, Visiting Professor, CEFMS, Hunan University, Changsha, China
September 2013 – August 2017, Special Term Visiting Senior Professor, Center for Economics, Finance, and Management Studies (CEFMS), Hunan University, Changsha, China
September 2008 – August 2011, Adjunct (Visiting) Professor, Central University of Finance and Economics, Beijing, China
March/April 2005, 2006, 2007, Special Term Visiting Professor, Hunan University, College of Trade and Economy, Changsha, China
June 2004, Visiting Professor, Duisburg-Essen University, Faculty of Business Administration and Economics
August 1998 – June 2000, Professor of Civil Engineering, Purdue University, West Lafayette, IN
March – April 1999, Visiting Professor, Athens Laboratory of Business Administration, Athens, Greece
August 1996 – May 2000, Professor of Economics, Purdue University, West Lafayette, IN
September 1991 – May 1992, Visiting Senior Teaching Fellow, Nanyang Technological University, Singapore
August 1984 – July 1996, Associate Professor of Economics, School of Management, Purdue University, West Lafayette, IN.

August 1984 – May 1985, Visiting Associate Professor of Economics, University of Southern California, Los Angeles, CA.
August 1978-July 1984, Assistant Professor of Economics, School of Management, Purdue University, West Lafayette, IN.
August 1976-May 1978, Assistant Professor of Economics, Concordia University, Montreal, Canada.
February – April 1976, Instructor in Economics, California State University, Los Angeles, CA.

Professional Memberships
American Economic Association
Transportation and Public Utilities Group
Transportation Research Forum

TEACHING AND RELATED ACTIVITIES

Undergraduate

Contemporary Economic Policy	Econometrics	Economics Honors Seminar
Advanced Micro Theory	Principles of Economics	Mathematics for Economists
Transportation Economics	Urban Economics	

Graduate (Masters and PhD)
Empirical Research Methods – PhD, Master's
Discrete Choice Econometrics – PhD, Master's
Microeconometric Analysis – Ph.D.
Transportation Economics – Master's
Macroeconomics, Microeconomics – MBA, Executive MBA
Quantitative Methods – MBA

Other Relevant Areas
Industry Studies
Government Regulation
Industrial Organization
Pulp and Paper

RESEARCH AND RELATED ACTIVITIES

***PhD Student/Advisee/Mentee** ****MS Advisee/Mentee** *****UG Advisee/Mentee**

Refereed Publications

1. *Journal Articles*

"Competitive Effects of Regional Airline Exit: Evidence from the COVID-19 Pandemic" (with T. Peng, C.-Y. Ho, L. Xu), *Journal of Transport Economics and Policy* 60 (April 2026), 102-23.

"Predicting Trips to Health Care Facilities: A Binary Logit and Receiver Operating Characteristics (ROC) Approach", *Research in Transportation Economics* 103 (March 2024), https://doi.org/10.1016/j.retrec.2024.101411.

"Errata", accepted for publication (October 2025).

"Health indicators, Mode Choice, and Trip Time-Cost Trade-Offs: Evidence from Out-Patient Trips to Health Care Facilities☆, *Journal of Transport & Health* 32 (March 2023), https://doi.org/10.1016/j.jth.2023.101676.

"Trip and Mode-Choice Decisions to Out-Patient Health Care Facilities: A Longitudinal Analysis", *Journal of Management Science and Engineering 7, 173-196.* https://doi.org/10.1016/j.jmse.2021.03.005

"Competition and countervailing power: Evidence from the China Eastern and Shanghai Airlines Merger" (with C.Y. Ho and Y. Wang) 91 (March), 2021, *Journal of Air Transport Management.*

"Decomposing Sources of Gain from Airline Mergers: A Model and Case Study from China" (with C.Y. Ho and Y. Wang), *Research in Transportation Economics*, December 2020.

"Economic Impact Analysis of GDOT Short Line Railroad Infrastructure Investment in Georgia." (with **Z. Zhai*)** *Research in Transportation Economics* 77 (June 2019).

"Private Vehicle Ownership in Provincial China" (with **J. Wang****), *Journal of the Transportation Research Forum* 56 (Fall 2017), 91-110.

"US Airport Ownership, Efficiency, and Heterogeneity" (with L. Kutlu), *Transportation Research Part E: Logistics and Transportation Review"* (May 2016) 89, 117-32.

"US Airport Costs and Production Technology: A Translog Cost Function Analysis", *Journal of Transport Economics and Policy* 48 (September 2014), 427-447.

"Bankruptcy in the Pulp and Paper Industry: Market's Reaction & Prediction" (with CY Ho, **Y. Yang****, and **X. Ye****), *Empirical Economics* 45 (December 2013), 1205-1232.

"Multi-modal Transportation Investment in Kazakhstan: Planning for Trade and Economic Development in a Post-soviet Country" (with J. Yang), *Procedia – Social and Behavioral Sciences* 96, November 2013, 2105-14.

"Airport Runway Capacity and Economic Development: A Panel Data Analysis of Metropolitan Statistical Areas" (with D. Tittle, **Y. Xiao****), *Economic Development Quarterly* 27, August 2013, 230-39.

"Long Run Equilibrium and Short Run Dynamics Between Risk Exposure and Highway Safety" (with R. Kilic), *Empirical Economics* 42, June 2012, 899-913.

"Production and Cost in the U.S. Paper and Paperboard Industry" (with **A. Urmanbetova***), *Applied Economics* 43, 2883-93, June 2011.

"Regional Demands for Pulp and Paper Products" (with **L. Lei***), *Journal of Forest Economics* 16, 2010, 127-44.

"Economic Transition and Product Demand Pattern in China: Evidence from China's Paper and Paperboard Industry" (with H. Li, J. Luo), *China Economic Review* 17, 2006, 321-36; reprinted in Fleisher, B., Li, H. and Song, S. (Eds.), *Market Development in China: Spillovers, Growth and Inequality*, 2007, pp. 124-45, Cheltenham, U.K. and Northampton, Mass.: Edward Elgar.

"Road Safety, Alcohol, and Public Policy", Special Issue Editorial (with R. Tay, co-editor), *Transportation Research E* 41, 2005, 373-76.

"How Alcohol-Related Crashes of Different Severity Interrelate and Respond to Local Spatial Characteristics: An Evaluation of a Common Site Sales Ban on Alcohol and Gasoline" (with M. Farmer and C. Lipscomb*), *Annals of Regional Science* 39, 2005, 185-201.

"Alcohol, Public Policy and Highway Crashes: A Time Series Analysis of Older Driver Behavior", *Journal of Transport Economics and Policy* 39, 2005, 109-25.

"The Effects of Alcohol and Highway Speed Policies on Older Driver-Involved Motor Vehicle Crashes", *Journal of Transportation and Statistics* 6 (2003), 51-65.

"Motor Vehicle Safety and Alcohol Availability in Grass-Roots Communities", *Applied Economics* 35 (2003), 1331-1338.

"A Determination of Load and Non-load Shares of Highway Pavement Routine Maintenance Expenditures." (with **Z. Li*** and K. Sinha) *Road and Transport Research* 11 (2002), 3-12.

"Cost Structures of Public Transit Systems: A Panel Data Analysis" (with M. Karlaftis). *Transportation Research E: Logistics and Transportation Review* 38 (2002), 1-18.

"Methodology to Determine Load and Non-Load Shares of Highway Pavement Rehabilitation Expenditures" (with **Z. Li*** and K. Sinha), *Transportation Research Record* 1747 (2001), 79-88.

"Safety Investments, Behaviors and Injury Severity" (with W. Talley), *Applied Economics* 33, 701-710, 2001.

"Effect of Speed Limits on Speed Distributions and Highway Safety: A Survey of Recent Literature", *Transport Reviews* (2001) 21, 31-50.

"Determinants of Crew Injuries in Tow Vessel Accidents" (with W. Talley), *Journal of the Transportation Research Forum* 39 (2000), 129-139.

"The Structure of Public Transit Costs in the Presence of Multiple Serial Correlation" (with **M. Karlaftis*** and K. Sinha), *Journal of Transportation and Statistics* 2 (1999), 113-121.

"The Effect of Privatization on Public Transit Costs" (with **M. Karlaftis***), *Journal of Regulatory Economics* 16 (1999), 27-43.
"System Size and Cost Structure of the Transit Industry" (with **M. Karlaftis*** and K. Sinha), *Journal of Transportation Engineering* 125 (1999), 208-215.
"Evidence on Risk Compensation and Safety Behavior" (with W. Talley), *Economics Letters* 62 (1999), 91-96.
"Public Policy and Highway Safety: A City-Wide Perspective", *Regional Science and Urban Economics* 29 (1999), 231-244.
"Operating Subsidies and Performance in Public Transit: An Empirical Study" (with **M. Karlaftis***), *Transportation Research* A (1998), 359-375.
"New Vehicle Consumption and Fuel Efficiency: A Nested Logit Approach" (with R. Tay), *Transportation Research* E 34 (1998), 39-51.
"The Role of Captivity in Aggregate Share Models of Intercity Passenger Travel", *Journal of Transport Economics and Policy* XXXI (1997), 293-308.
"The Relationship between Pavement Performance and Routine Maintenance: A Mixed Logit Approach" (with D. Mohamad* and K. Sinha), *Transportation Research Record* 1597 (1997), 16-21.
"Subsidy and Public Transit Performance: A Factor Analytic Approach" (with **M. Karlaftis***), *Transportation* 24 (1997), 253-270.
"Probabilistic Infrastructure Deterioration Models with Panel Data" (with **M. Karlaftis*** and S. Madanat), *Journal of Infrastructure Systems* 3 (1997), 4-9.
"A Portfolio Model of the Demand for Recreational Fishing Trips" (with **R. Tay*** and J. Fletcher), *Transportation Research B* 30 (1996), 325-337.
"Market Price and Income Elasticities of New Vehicle Demands", *Review of Economics and Statistics* LXXVIII (1996), 543-547.
"The 1982 Surface Transportation Assistance Act: Implications of Relaxed Truck Weight and Size Limits for Highway Safety", *Transport Policy* 2 (1995), 107-117.
"Structural Models of Brand Loyalty with an Application to the Automobile Market" (with G. Wright and R. Chandrasekharan*), *Transportation Research* 28B (1994), 445-462.
"Highway Accident Data Analysis: Alternative Econometric Methods" (with S. Madanat), *Transportation Research Record* 1467 (1994), 44-49.
"An Empirical Analysis of the Direct and Indirect Effects of Relaxed Interstate Speed Limits on Highway Safety", *Journal of Urban Economics* 36 (1994), 353-364.
"Benefits of Improved Water Quality: A Discrete Choice Analysis of Freshwater Recreational Demands" (with **R. Tay***), *Environment and Planning A* 26 (1994), 1625-1638.
"Relaxed Speed Limits and Highway Safety: New Evidence from California", *Economics Letters* 46 (1994), 173-179.
"The Effect of Higher Rural Interstate Speed Limits in Alcohol Related Accidents", *Journal of Health Economics* 11 (1993), 281-299.
"Pricing Road Congestion: Some Estimates from Singapore" (with R. Tay), *Policy Studies Journal* 21 (1993), 296-308.
"Economic Efficiency vs. Traffic Restraint: A Note on Singapore's Area License Scheme" (with R. Tay), *Journal of Urban Economics* 34 (1993), 96-100.
"Economic Regulation and Highway Safety in the Trucking Industry: A Limited Dependent Variable Approach" (with **T. Traynor***), *Quarterly Review of Economics and Finance* 33 (1993), 141-53.
"Estimating Brand Loyalty and Switching with an Application to the Automobile Market" (with G. Wright, P.K. Kannan*, and R. Chandrasekharan*), *Management Science* 38 (1992), 1371-1393.
"The Effect of the 1980 Motor Carrier Act on Highway Safety" (with **T. Traynor***), *Journal of Regulatory Economics* 3 (1991), 338-348.
"Highway Safety and the 65 MPH Maximum Speed Limit", *Contemporary Policy Issues* IX (1991), 82-92.

"Demand Oriented Policies for Improving Market Share in the U.S. Automobile Industry" (with R. Tay*), *International Journal of Transport Economics* XVIII (1991), 55-70.

"The Effect of MADD on Drinking-Driving Activities - An Empirical Study" (with **J. Ziliak*****), *Applied Economics* 9 (1990), 1215-1227.

"Accident Involvement and Highway Safety," *The Logistics and Transportation Review* 25 (1989), 129-138.

"Consumer Demand for Vehicle Safety: An Empirical Study," *Economic Inquiry* XXVII (1990), 530-543.

"Short Term Effects of Safety Related Recalls on New Vehicle Purchase Decisions," *Transportation Research Record* 1210 (1989), 58-65.

"Consumer Valuation of New Car Attributes: An Econometric Analysis of the Demand for Domestic and Japanese/Western European Imports" (with R. Tay), *Transportation Research* 23A (1989), 367-375.

"An Analysis of the Determinants of Investor Choice" (with **T. Krehbiel***), *Quarterly Review of Economics and Business* 29 (1989), 43-56.

"The Deterrent Effects of Stiffer DUI Laws: An Empirical Study" (with **W. Oesterle*****), *The Logistics and Transportation Review* 23 (1987), 353-371.

"Seat Belt Usage Rates: A Test of Peltzman's Hypothesis," *Accident Analysis and Prevention* 18 (1986), 425-438.

"Shared Fleet Arrangements: Implications for Vehicle Demands Using a Simultaneous Equations Approach," *International Journal of Transport Economics* XIII (1986), 87-103.

"An Econometric Analysis of Automobile Transactions," *International Journal of Transport Economics* XII (1985), 71-92.

"Automobile Captive Choice Behavior: An Application of Nested Logit Analysis," *The Logistics and Transportation Review* 20 (1984), 127-48.

"The Shared Vehicle Fleet: A Study of Its Impact Upon Accessibility and Vehicle Ownership," *Journal of Transport Economics and Policy* XVIII (1984), 75-94.

"Further Evidence on the Temporal Stability of Disaggregate Travel Demand Models," *Transportation Research* 16B (1982), 263-278.

"On the Use of Information Theory in Mode Choice Analysis," *The Logistics and Transportation Review* 17 (1981), 337-342.

"A Study of the Importance of Generalized Attributes in Shopping Choice Behavior," *Environment and Planning A* 12 (1980), 1269-1286.

"The Differential Impact of Residential Location on Choice of Mode in the San Francisco Bay Area," *The Logistics and Transportation Review* 16 (1980), 33-58.

"Generalized Attributes and Shopping Trip Behavior," Transportation Research Board, *Transportation Research Record* 728 (1979), 82-89.

"Residential Location and the Journey to Work: An Empirical Analysis," *Journal of Transport Economics and Policy* XI (1977), 169-184.

Books

Airlines and the COVID-19 Pandemic (Editor)*,* Volume 11 in *Advances in Airline Economics*. Emerald Publishers: Bingley, UK November 2024.

The Theory and Practice of Transportation Economics: A Case Study Approach, Blackwell Publishers: Oxford, 2001.

Chapters in Books

"Introduction and Overview". Chapter 1 in *Advances in Airline Economics Volume 11: COVID-19 and Airlines*. Edited by Patrick McCarthy. Emerald Publishers: Bingley, UK November 2024.

"COVID-19 Uncertainty and the Cross-Sectional Returns of Airlines" (with Ho, C-Y, Liu, Xiaojie). Chapter 4 in *Advances in Airline Economics Volume 11: COVID-19 and Airlines*. Edited by Patrick McCarthy. Emerald Publishers: Bingley, UK November 2024.

"Effects of the COVID-19 Pandemic and Related Policies on Airport Short-Term Costs" (with **Y. Yang***). Chapter 9 in *Advances in Airline Economics Volume 11: COVID-19 and Airlines*. Edited by Patrick McCarthy. Emerald Publishers: Bingley, UK November 2024.

"Multi-Product Cost Analysis of US Airports". In John Bitzan, James Peoples and Wesley Wilson (Eds.), *Advances in Airline Economics,* Volume 5, Emerald Group Publishing Limited, 2016, 243-81.

"Highway Safety and Public Policy: The GIS Perspective" (with C. Lipscomb). In Jouke van Dijk, Paul Elhorst, Jan Oosterhaven, and Egbert Wever (eds.). *Urban Regions: Governing Interacting Economic, Housing, and Transport Systems*. Nederlandse Geografische Studies, no. 303, Utrecht, 2003, 371-387.

"TRACS–CA: Traffic Risk and Crash Severity (California)". In Gaudry, M. and Lassarre, S. (eds.), *Structural Road Accident Models: The International DRAG Family*, Elsevier Science: Oxford, 2000, 185-204.

"Effects of Speed Limits on Speed Distributions and Highway Safety", Appendix C, 277-358 in TRB National Research Council, Special Reporft 254 *Managing Speed: Review of Current Practice for Setting and Enforcing Speed Limits.* National Academy Press, Washington D.C., 1998.

"Models of Brand Loyalty in the Automobile Market" (with G. Wright and R. Chandrasekharan) in Stopher, P. and Lee-Gosselin, M. (eds.), *Understanding Travel Behavior in an Era of Change*, Pergamon Press, 1997.

"The Effect of Trucking Fleet Size on Highway Safety," in Saccomanno, F. and Shortreed J. (eds.) *Truck Safety: Perceptions and Risk*, Institute of Risk Research, University of Waterloo, Waterloo, Ontario, Canada, 1996, 253-270.

"The Effect of Congestion Pricing on Metropolitan Demands for Fuel Efficient Vehicles", in Recio, J. M. B. and Sucharov, L. J. (eds.) *Urban Transport and the Environment II*, Southampton, U.K.: Computational Mechanics Publications, 1996, 67-76.

Paper Under Review (PUR), Working Paper (WP), and Work in Progress (WIP)

"Effect of China's Residential Area Restrictions on Activities During the Initial COVID-19 Outbreak' (WP), May 2026.

Works in Progress

Parameterized logit captivity and outpatient trips

Use of AI in Discrete Choice Models

Completed Sponsored Projects and Reports

Sloan Foundation, Center for Paper Business and Industry Studies (CPBIS), Center Reports

"CPBIS Annual Reports", annually from 2011 – 2018.

"Final Report, Alfred P. Sloan Foundation: October 2000 – December 2009", CPBIS, December 2009.

"CPBIS – A Nine-Year Legacy: 2001 – 2009", CPBIS, November 2009.

"Annual Reports to the Alfred P. Sloan Foundation: 2001 - 2008", CPBIS, February 2009.

Sloan Foundation, CPBIS, Research Final Reports

"Pulp and Paper Economic Indicators: A Comparative Analysis: Annual Report", September 2015-02 (with A. Urmanbetova), CPBIS-FR-2014-01 (with A. Urmanbetova), CPBIS-FR-2013-01.

"2011 U.S. Pulp and Paper Capacity", Final Report, CPBIS-FR-2013-04, September 2013.

"The Effect of GDP on US Pulp and Paper Output: A Time Series Analysis", CPBIS Final Report, CPBIS-FR-2013-03, March 2013.

"Georgia's Pulp and Paper Industry, 1990 – 2008: Establishments, Employment, and Sales", CPBIS Final Report, CPBIS-FR-2013-02, February 2013.

"Predicting Bankruptcy in the Pulp and Paper Industry" (with . C-Y Ho, Y. Yang). Final Report, CPBIS March 2010.
"Profiling Best Practices: An Explanatory Analysis of Box-Plant Trucking Logistics in the Paper Industry" (with J. Madariaga), October 2004.
"Industry Consolidation and Price-Cost Margins: Evidence from the Pulp and Paper Industry" (with. H. Li, A. Urmanbetova), Final Report, CPBIS, November 2004.

Asian Development Bank (ADB)
"An Infrastructure Road Map for Kazakhstan" (with C. Dopazo et al.), ADB Final Report Kazakhstan, September 2012.
"An Infrastructure Road Map for Uzbekistan" (with C. Dopazo et al.), ADB Final Report Kazakhstan, September 2012.

Federal Aviation Administration (FAA)
"Economic Growth through Safe, Targeted Infrastructure Investment: Airport Runway Capacity and Economic Development" (with D. Tittle), FAA Final Report, March 2010.

Georgia Department of Transportation, GT Urban Transportation Center
"Airport Costs and Production Technology: A Translog Cost function analysis with Implications for Economics Development". Final Report, Georgia Department of Transportation, Project 10-20, September 2011.

National Institutes of Health (NIH)
"Alcohol Related Crashes Among the Older Population", National Institute on Alcohol Abuse and Alcoholism, NIH Final Report, August 2002.

National Science Foundation (NSF)
"Integrated Management and Decision Support", NSF Final Report, Co-Principal Investigator, 1995.

AAA Foundation for Traffic Safety (AAAFTS)
"Expanded Use of Longer Combination Vehicles: Implications for Highway Safety," AAAFTS Final Report, January 1992.
"Highway Safety and the 65 MPH Maximum Speed Limit: An Empirical Study," AAAFTS Final Report, October 1988.
"The Effect of Automobile Safety on Vehicle Type Choice: An Empirical Study," AAAFTS, June 1987.

Other
"La possession d'une automobile, le lieu de domicile et le choix du mode de transport dans la communaute urbane de Montreal" (with S. Ahsan and I. Irvine), FCAC, Government of Quebec, 1980.

Unpublished Papers
"Spare the Rod and Spoil the Child? Parenting Style and the Cognitive Development of Adolescents" (with Xianfang Xiong) – WP
"Policy Instruments and Adoption of Pollution Prevention Activities" (with **A. Urmanbetova****, D. Matisoff) – CPBIS WP, 2015.
"Environmental Compliance and Investment Behavior of Capital-Intensive Industries" (with A. Urmanbetova, Dan Matisoff, and Doug Noonan)" – CPBIS WP, 2015.
"Responsive Regulation: Target vs. Budget-Driver Regulation" (with **A. Urmanbetova***, Dan Matisoff, and Doug Noonan) – CPBIS WP, 2015.

"Regional Demands for Pulp and Paper Product" (with L. Lei), CPBIS Working Paper, 2007.
"Production and Cost in the Pulp and Paper Industry: A Translog Cost Function Analysis" (with **A. Urmanbetova***), CPBIS Working Paper, 2006.
"Valuation Effects of Bankruptcy along the Supply Chain of the Pulp and Paper Industry" (with C-Y Ho, X. Ye), CPBIS Working Paper, 2010.
"Georgia's Pulp and Paper Industry, 1990 – 2008: Establishments, Employment, and Sales", CPBIS Working Paper, 2010.
"Forecasting Demands for Transport Infrastructure in Developing Countries (with J. Yang)
"The Determinants of the Inter-Provincial Migration in China" (with R. Li).
"The Effect of GDP on US Pulp and Paper Output: A Time Series Analysis"
"Fatal Crash Trends and Analysis in Southeastern States" (with C. Wang, K. Dixon), May 2005.
"An Analysis of Drinking and Driving Behaviors in the US", July 2001.
"Organization and Operation of Local Groundwater Management Districts: Survey results" (with C. Harter, E. Loehman), May 1998.
"An Empirical Analysis of the Costs and Benefits of Local Groundwater Management Institutions" (with C. Harter* and E. Loehman), 1998.
"Motor Carrier Productivity and Highway Safety: Expanding the Use of Longer Combination Vehicles," 1992.
"The Effect of Banning Common Site Sales on Alcohol Related Auto Accidents in California: Summary of an Updated Empirical Study" (with J. Umbeck), February 1991.
"Location, Value of Tme, and the Theory of the Household" (with J. Bernstein), , Concordia University (formerly Sir George Williams University), 1978.
"A Study of the Demand for Housing and the Value of Time" (with J. Bernstein), Concordia University (formerly Sir George Williams University), 1978.
"Estimating the Impact of Residential Location on Mode of Travel: a Two Stage Approach", Working Paper #1977-4, Concordia University (formerly Sir George Williams University), 1977.

Invited Activities

Invited Seminar, "The effect of China's Residential Area Restrictions on Activities During the Initial COVID-19 Outbreak (Updated May 2026)", University of Nottingham, Ningbo, China, June 8, 2026.
Invited Seminar, "The effect of China's Residential Area Restrictions on Activities During the Initial COVID-19 Outbreak", Center for Economics, Finance, and Management Studies, Hunan University, Changsha, China, December 2025.
Invited Presentation, "Smart Transportation and Mobility in the U.S.: Where We are and Where We Would Like to Be", Forum for Next Logistics Technology (NeLT), Seoul, South Korea, December 6, 2019.
Invited Seminar, "Countervailing Power, Competition and Horizontal Mergers: Evidence from China Eastern (CE) and Shanghai Airlines (SA), Texas Tech University (Lubbock, TX), October 14, 2019.
Invited Panel Member, "Elsevier Authors' Workshop: How to write a world class paper", Chinese Economist Society Conference, Changsha, China, July 2007.
Invited Participant, Planning Meeting for Proposed Sloan Workshop, "Volatile Energy Costs and Energy-Intensive Industries: Impacts and Coping Strategies", West Virginia University, held at Pittsburgh International Airport Hotel, March 2007.
Invited Panel Participant, "The strategic challenges of PPI companies: global or regional, economies of scale or scope, dilemmas of China and Russia, political risks of global investments, orchestrating efficiently value nets, effects of international trade policies". Game Global Workshop, Lapeenranta University of Technology, Lapeenranta, Finland, June 2006.
Invited Presentation, "Industry Regions: Mature North America and Emerging China". Game Global Workshop, Lapeenranta University of Technology, Lapeenranta, Finland, June 2006,

Invited Presentation, "Shifts in Regional Demands for Pulp and Paper: Implications for the North American Industry". Game Global Workshop, Lapeenranta University of Technology, Lapeenranta, Finland, November 2005.

Invited Participant, American Forest and Paper Association, Agenda 2020, Washington DC, June 2005.

Invited Participant. Agenda 2020: Technology Summit II, Peachtree City, Georgia, March 28-31, 2004.

Invited Panel Participant. Session title: "Understanding the Critical Issues that Affect Business and Commerce Today", AACSB International, New Orleans, April 2003.

Invited Participant. STELLA (Sustainable Transport in Europe and Links and Liaisons with America) Transatlantic Thematic Network. Theme: Transportation Markets, Institutions, and Regulations. Brussels (April 2002), Santa Barbara (April 2003), Athens (June 2004).

Invited Panel Discussant, North American Conference on Speed, Quebec City, Canada, June 2001.

Invited Lecture, "Congestion Pricing Experiments in the U.S. and Abroad," Transportation Scholars Seminar, Midwest Transportation Center, Iowa State University, February 1993.

Invited to organize a session on Issues in Traffic Safety, ORSA-TIMS International Conference, Rio de Janeiro, Brazil, July 1991.

Workshops, Symposia, Meetings, Seminars

"The effect of China's Residential Area Restrictions on Activities During the Initial COVID-19 Outbreak", Center for Economics, Finance, and Management Studies, Changsha, China, December 2025.

"Publishing in High Quality Journals", Workshop, Hunan University, Changsha, China, June 2018.

"Economic Impact Analysis of Short-Line Rails in Georgia", Center for Finance, Economics, and Management Studies, Hunan University, December 13, 2017.

"Rural Transit: An Exploratory Analysis of Price Sensitivity", Center for Finance, Economics, and Management Studies, Hunan University, December 14, 2016.

Session Chair, "Gender Matters: Recent Trends in Intergenerational Occupational Mobility in China", 8th International Symposium on Human Capital and Labor Markets", Central University of Finance and Economics, December 9-10, Beijing, China.

"A Multi-Product Cost Function Analysis for US Airports", CEFMS, Hunan University, Changsha, China, May 30, 2014.

"Center for Paper Business and Industry Studies: Overview", Auburn Pulp and Paper Foundation, September 21, 2012.

"Trends in the Pulp and Paper Industry", Meeting with Domtar, Metso, Stora Enso, hosted by IPST-GT, November 17, 2011

"Overview of CPBIS", Meeting with Verso Paper, hosted by IPST-GT, July 12, 2011.

Participant, Planning Meeting for Proposed Sloan Workshop, "Volatile Energy Costs and Energy-Intensive Industries: Impacts and Coping Strategies", West Virginia University, held at Pittsburgh International Airport Hotel, March 2007.

"Game Global in the Pulp and Paper Industry – What Lies Ahead?", Game Global Workshop, Georgia Institute of Technology, Center for Paper Business and Industry Studies, Atlanta, GA, May 2007

Member, Panel Session on 'Recruiting, Retention and Advancement of Faculty', ADVANCE Conference 2005, Atlanta, GA., March 31-April 1.

Organizer and Workshop Chair. CPBIS Research Workshop for new and on-going projects. September (2001, 2002).

CPBIS Industry Advisory Board Meetings. Chaired and/or participated in quarterly CPBIS meeting for Center's Industry Advisory Board. September (2001-present).

Conference/Session Organizer, Planning, Session Chair (most recent first)

Session Chair, "Transportation", AEA Session, San Diego, Allied Social Science Association, January 2020.

Session Organizer, "Topics in Transportation Economics", Transportation and Public Utilities Group Session, Allied Social Science Association, January 2017.

Session Organizer, "Airports, Pricing, and Capacity", Transportation and Public Utilities Group and AEA Session, Allied Social Science Association, January 2017.

Session Chair, "Airports, Pricing, and Capacity", Transportation and Public Utilities Group and AEA Session, Allied Social Science Association, January 2017.

Session Organizer, "Topics in Transportation Economics", Transportation and Public Utilities Group Session, Allied Social Science Association, January 2016.

Session Chair, "Topics in Transportation Economics", Transportation and Public Utilities Group Session, Allied Social Science Association, January 2016.

Session Organizer, "Economic Cost and Efficiency in Transportation", Transportation and Public Utilities Group Session, Allied Social Science Association, January 2016.

Chair, Local Organizing Committee, Transportation Research Forum 2015 Conference, Atlanta, March 2015.

Panel Moderator, "Strategies for Seizing Opportunities in Process Operations", IPST-GT Executive Conference, Remaining Competitive in an Evolving Industry, Atlanta, March 9-10, 2011.

Session Chair, "State of the Industry", 2009 TAPPI Engineering, Pulping & Environmental Conference, Memphis, TN, October 12, 2009.

Member, Organizing Committee, Chinese Economist Society China Conference 2007, "Economic Transition, Regional Growth, and Sustainable Development, Changsha, Hunan, July 2007. Also introduced Professor Sir James Mirrlees (University of Cambridge) Nobel Laureate keynote speaker.

Member, Scientific Committee on Transportation Systems, "10th International Conference on Application of Advanced Technology in Transportation – AATT 2008", Athens, Greece, May 2008.

Member, Industry Studies Organizing Committee, Alfred P. Sloan Foundation 2007 Industry Studies Conference, Boston, MA, April 2007

Session Organizer, "Panel Session on 'Mergers and Vertical Integration in the Pulp and Paper Industry", International Industrial Organization Conference, Atlanta, April 2005.

Co-Organizer (with J. McNutt and C. White), Sloan Industry Centers Conference, Atlanta, Georgia, April 20-21, 2004.

Session Chair, International Finance Forum for the Pulp, Paper, and Allied Industries. February 2003.

Conference Participation as Presenter, Discussant (most recent first)

Discussant, "Estimating Cognitive Skill Formation in Brazil, China, and Russia: An Education Production Function Approach", The 17th International Symposium on Human Capital and Labor Markets, Center for Human Capital and Labor Market Research, Central University of Finance and Economics, Beijing, China, December 2025,

Presenter, "The effect of China's Residential Area Restrictions on Activities During the Initial COVID-19 Outbreak", 25th China Economic Association Conference, Shanghai, China, December 2025.

Discussant, "2023 Human Capital Report: Comments", 2023 CHLR Human Capital Conference, Beijing, China, December 2023.

Discussant, "Prescriptions for Anticipated Adversities in Highway Agency Finance in the Era of Electric Vehicles", Transportation Research Forum, Chicago, April 2023.

Accessibility in a Global Sample of Cities", ASSA, Transportation and Public Utilities Group, Atlanta, GA, January 2023.

Discussant, "Accessibility in a Global Sample of Cities", ASSA, Transportation and Public Utilities Group, Atlanta, GA, January 2023.

Discussant, "Does the US have an Infrastructure Cost Problem? Evidence from the Interstate Highway System", ASSA, Transportation and Public Utilities Group, Atlanta, GA, January 2022.

Discussant, "Reducing Sulphur Emissions: A Maritime Supply Chain Perspective", ASSA, Transportation and Public Utilities Group, Atlanta, GA, January 2020.

"Sources of Gain in Airline Merger: Evidence from China Eastern and Shanghai Airlines", ASSA, Transportation and Public Utilities Group, Atlanta, GA, January 2019.

Discussant, "Benchmark Regulation of Multiproduct Firms: An Application to the Rail Industry", ASSA, Transportation and Public Utilities Group, Atlanta, GA, January 2019.

"Economic Impact of Short Line Rails in Georgia", 59th Annual Transportation Research Forum, Minneapolis, April 2018.

Discussant, "Rent-Sharing by Suppliers: Pricing Crude Rail from the Bakken", 59th Annual Transportation Research Forum, Minneapolis, April 2018.

"Private Vehicle Ownership in Provincial China", Presented at the 58th Annual Transportation Research Forum, Chicago (USA), April 20-21, 2017; Chinese Economists Society, Nanjing (China), June 10-11.

Discussant, "Transportation Public-Private Partnerships", ASSA, Transportation and Public Utilities Group, January 2014.

"Airport Costs and Production Technology: A Multi-Output Analysis", Central University of Finance and Economics, Beijing, China, April 25, 2013; Peking University Shenzhen Graduate School, Shenzhen, China, April 28, 2013.

"Forecasting Demands for Transport Infrastructure in Developing Countries", ASSA, Transportation and Public Utilities Group, January 2013.

"Airport Costs and Production Characteristics", ASSA, Transportation and Utilities Group, January 2012.

"Airport Costs, Capacity, and Metropolitan Economic Development: A Translog Panel Data Cost Function Analysis", presented at Kuhmo Nectar Transportation Economics Conference, July 8-9, 2010 (Valencia, Spain), 2010 International Conference on Urban Development and Planning, June 22-23, 2010 (Qinhuangdao, China), and 4th International Association for China Planning (IACP) Conference, June 19-21, 2010 (Shanghai, China

"Regional Demands for Pulp and Paper Products" (with L. Lei), School of Management and Economics, Beijing Institute of Technology, Beijing, China, April 6, 2009.

"Shifts in Regional Consumption for the Pulp and Paper Industry" (with L. Lei). Renmin University, Beijing, China; Central University of Finance and Economics, Beijing, China, March 2007; 2006 Engineering, Pulping and Environmental Conference, TAPPI, Atlanta, GA, November 2006.

"Economic Transition and Demand Pattern: Evidence from China's Paper and Paperboard Industry" (with H. Li and J. Luo), Chinese Economists Conference, Atlanta, Georgia, July 30-31, 2004.

"Price Behavior, Price-Cost Margin, and Industry Consolidation" (with H. Li). TAPPI Paper Summit, Atlanta, May 2004.

"Box-plant Trucking Logistics and Related Studies" (with J.C. Lu, J. Madariaga, C. Charoensiriwath). TAPPI Paper Summit, Atlanta, May 2004.

"Demand Functions for Paper and Paperboard in China" (joint with J. Luo and H. Li), Conference on the Integration of the Greater Chinese Economies: Causes, Consequences, and Implications (organized by the Chinese Economics Society), Beijing, July 2002.

"Public Policy and Alcohol Related Crashes Among Older Drivers", 16th International Conference on Alcohol, Drugs, and Traffic Safety, Montreal, Canada, August 2002.

"The Effect of Alcohol and Highway Speed Policies on Older Drivers", 1st International Conference on Transport Research in Greece, Athens, Greece, February 2002.

"An Analysis of DUI Behavior in the US", 9th World Conference on Transport Research, Seoul, Korea, July 2001.

"Motor Vehicle Safety and Alcohol Availability", Transportation Research Forum, Washington DC, September/October 1999.

"A Study of the Influence of Public Capital Stock on State Output" (with Jennifer Pyrz and Kumares Sinha), Transportation Research Board 77th Annual Meeting, Washington D. C., January 1998.

"The Effect of Privatization on Public Transit Costs" (with M. Karlaftis), 39th Annual Transportation Research Forum Conference, Montreal, Quebec, October 1997.

"Evaluating the Performance of Mass Transit Firms: A Cross Section-Time Series Analysis" (with M. Karlaftis and K. Sinha), 8th IFAC Symposium on Transportation Systems, Chania, Crete, June 1997.

"The Relationship between Pavement Performance and Routine Maintenance: A Mixed Logit Approach" (with D. Mohamad and K. Sinha), Transportation Research Board, Washington D.C., January 1997

"Operating Subsidies and Performance in Public Transit: An Empirical Study" (with M. Karlaftis), Transportation Research Forum, San Antonio, October 1996.

"The Effect of Congestion Pricing on Metropolitan Demands for Fuel Efficient Vehicles", Urban Transportation '96 Conference, Barcelona, October 1996.

"Public Transit Subsidies and Performance" (with M. Karlaftis), presented at the Metropolitan Conference on Public Transportation Research, Chicago, June 1996

"The Demand for Fuel Efficient Vehicles" (with R. Tay), International Western Economic Association Conference, Hong Kong, January 1996.

"Aggregate Demand Models for Intercity Travel," Transportation Research Forum Conference, Chicago, IL., October 1995.

"The Effect of Trucking Fleet Size on Highway Safety," Conference on Truck Safety, University of Waterloo Institute for Risk Research, Toronto, Canada, September 1995.

"Highway Accident Data Analysis: Alternative Econometric Methods" (with S. Madanat), Transportation Research Board, 73rd Annual Meeting, Washington D.C., January 1994.

"Highway Safety Implications of Expanded Use of Longer Combinations Vehicles (LCVs)". 6th World Conference on Transport Research, Lyon, France, July 1992.

"Road Pricing in Singapore: Too Much of a Good Thing?" (with Richard Tay). 6th World Conference on Transport Research, Lyon, France, July 1992.

"65 MPH Speed Limits and Highway Safety: Evidence from California and Indiana" (with S. Karlsson), ORSA-TIMS Conference, Rio de Janeiro, July 1991.

"Highway Speed Regulation and Alcohol Related Accidents," 6th International Conference on Travel Behavior, Quebec City, Canada, May 1991.

"Models of Brand Loyalty in the Automobile Market" (with G. Wright and R. Chandrasekharan), 6th International Conference on Travel Behavior, Quebec City, Canada, May 1991.

"Highway Safety and the 65 MPH Maximum Speed Limit", Western Economic Association Conference, San Diego, California, June 1990.

"An Investigation of Brand Loyalty in the Automobile Market Using a Brand Switching Model" (with G. Wright, P.K. Kannan, and R. Chandrasekharan), Marketing Science Conference, Champaign-Urbana, Illinois, March 1990.

"Short Term Effects of Safety Related Recalls on New Vehicle Purchase Decisions," Transportation Research Board Conference, Washington, D.C., January 1989.

"The Effect of Deregulation on Highway Safety" (with Tom Traynor), Southern Economic Association, San Antonio, Texas, November 1988.

"Consumer Demand for Vehicle Safety," Western Economic Association Meeting, Los Angeles, California, July 1988.

"The Effect of Banning Common Site Sales on Alcohol Related Auto Accidents in California: An Empirical Study" (with John Umbeck), Eastern Economic Association meetings, Boston, Massachusetts, April 1988.

"Behavioral Models of Investor Choice" (with Tim Krehbiel), ORSA/TIMS Conference, Miami, Florida, 1986.
"On the Shared Vehicle Fleet: A Study of Its Impact upon Accessibility and Vehicle Ownership," Western Economic Association Conference, Seattle, Washington, June 1983.
"Temporal Stability of Travel Demand Models," Midwest Economic Association Conference, Louisville, Kentucky, 1981.
"Information Theory and Transportation Analysis," Western Economic Association Conference, San Diego, California, June 1980.
"A Study of the Demand for Housing and the Value of Time" (with Jeffrey Bernstein), Western Economic Association Conference, Anaheim, California, June 1978.
"Residential Location and Transport Choice: Theory and Evidence", Western Economic Association Conference, San Diego, California, June 1976
"Residential Location and the Journey to Work: An Empirical Analysis," Southern California Econometric Meeting, UCLA, Los Angeles, California, Summer 1976.

Funded Grants

Georgia Department of Transportation, "Assessment of Transit Funding Needs for Counties Trending Urban" (co-PI), 2017-2018.
Georgia Department of Transportation, "National Transit Database Reporting and Onboard Survey Assistance" (co-PI), 2015-2016, 2017-2018.
Georgia Department of Transportation, "Economic Impact Analysis of GDOT's Short Line Railroads" (co-PI), 2016-2018.
Urban Transportation Center, Ga Tech and Georgia Department of Transportation, "Airport Costs and Metropolitan Economic Development" (PI), 2010-2011.
FAA, "Economic Growth through Safe, Targeted Infrastructure Investment" (PI), 2009-2010.
Power4Georgians, "Energy for Georgia Economic, Environmental and Social Sustainability: Phase I Electrical Energy Demand and Generating Costs" (Senior Personnel), 2009-2010.
Sloan Foundation, "Game Global in the Pulp and Paper Industry: What Lies Ahead" (Principal Investigator), 2007.
Sloan Foundation, "Center for Paper Business and Industry Studies: A Renewal Proposal" (Principal Investigator), 2007-2009.
Sloan Foundation, "Center for Paper Business and Industry Studies: A Renewal Proposal" (Principal Investigator), 2004-2006.
Department of Education, "Preparing the New Millenia Workforce for a Globally Integrated and Technologically Rich Environment" (co-Principal Investigator), 2005-2007.
Georgia Tech Foundation, "Collaborative Research Workshop: Schools of Economics, International Affairs, and Public Policy", 2004-05.
Sloan Foundation, "2004 Sloan Industry Centers Annual Meeting and Conference" (Principal Investigator), 2004.
Sloan Foundation, "Center for Paper Business and Industry Studies: A Renewal Proposal" (Principal Investigator), 2004-2006.
Sloan Foundation, Center for Paper Business and Industry Studies and Trucking Industry Program (Ga Tech), "Profiling Best Practices: A Cross-Center and Cross-Industry Exploratory Analysis of Box-Plant Trucking-Logistics in the Paper Industry" (co- Principal Investigator), 2002 – 2003.
Sloan Foundation and Center for Paper Business and Industry Studies (Ga Tech), "Price Behavior (and Forecasting and Elasticities) in the Pulp and Paper Industry" (co- Principal Investigator), 2001 – 2003.
Georgia Tech, Undergraduate Research Grant, "Pricing Behavior in Transportation", 2001.
National Institute of Alcohol Abuse and Alcoholism, 2000, "Public Policy and Alcohol Related Crashes Involving Older Drivers", Principal Investigator.

International Travel Grant, Purdue University, Purdue University, World Conference on Transport Research, Antwerp, Belgium, July 1998.
International Travel Grant, Purdue University, Purdue University, Urban Transportation '96 Conference, Barcelona, Spain, October 1996
National Science Foundation, "Integrated Management and Decision Support", Co-Principal Investigator, 1995.
International Travel Grant, Purdue University, ORSA-TIMS International Conference, Rio de Janeiro, Brazil, July 1991 International Globalization Grant, Purdue University, 1990-1991
AAA Foundation for Traffic Safety, 1991, "Are Extra Long Vehicles (ELVs) Compromising Highway Safety in Unexpected Ways", Principal Investigator.
National Institute of Alcohol Abuse and Alcoholism, 1989, "Highway Speed and Alcohol Related Accidents", Principal Investigator.
AAA Foundation for Traffic Safety, 1988, "Maximum Speed Limits and Highway Safety", Principal Investigator.
AAA Foundation for Traffic Safety, 1987, "The Effects of Safety on Vehicle Type Choice", Principal Investigator.
Credit Research Center, Purdue University, Summer Research Grant, 1986
Purdue Research Foundation, Summer Faculty Research Grant, 1980, 1981, and 1982
Automotive Transportation Center (Purdue University), Summer Grant, 1979
FCAC, Government of Quebec 1978-1979 and 1979-1980, Concordia University, "La possession d'une automobile, le lieu de domicile et le choix du mode de transport dans la communaute urbane de Montreal" (with S. Ahsan and I. Irvine).
Canada Council Research Grant, 1977-1978

Consulting

"Limited Dependent Variable Models", Central University of Economics and Finance", Beijing, China, June 1 – June 8.
"Preparation of Sector Road Maps for Central and West Asia (Kazakhstan). Part of a six-person team headed by C. Dopazo. Technical Assistance Consultant's Report, Asian Development Bank (ADB). Project Number: 44402-01, November 2012.
"Preparation of Sector Road Maps for Central and West Asia (Uzbekistan). Part of a six-person team headed by C. Dopazo. Technical Assistance Consultant's Report, Asian Development Bank (ADB). Project Number: 44402-01, November 2012.
"Transport Sector Road Map, Kazakhstan", Workshop Presentation, Astana, Kazakhstan, October 19, 2012.
"Transport Sector Road Map, Uzbekistan", Workshop Presentation, Tashkent, Uzbekistan, October 16, 2012.
"Preparation of roadmaps for development of transportation in Kazakhstan and Uzbekistan (with J. Yang), Asian Development Bank, July 2011-October 2012.
"Transport Knowledge Database in Kaz and Uzb", Asian Development Bank, February-June 2011.
"Socioeconomic Data and Special Generators: Gwinnett County", C&M Associates, Dallas, TX, 2007-2008.
"Transport Knowledge Database in Kazakhstan and Uzbekistan", Project A71285: RSC-C12551, Asian Development Bank, Manila, Philippines, June 2011.

Awards

Best Paper Award, 64th Transportation Research Forum Conference, Chicago, April 2023.
Transportation and Public Utilities Group Distinguished Member, ASSA Conference, Atlanta, Georgia, January 2019.
Herbert O. Whitten TRF Service Award, 59th Annual Transportation Research Forum Conference, Minneapolis, April 2018.

Metropolitan Transportation Association Privatization Paper Award (with M. Karlaftis), 39th Annual Transportation Research Forum Conference, Montreal, Quebec, October 1997.

Recent Student Thesis Supervision

PhD Level

Chair, Yushuo Yang, "Analyses of Short-Run Airport Costs in the U.S.: Pre- And Post-COVID-19", School of Economics, Georgia Institute of Technology, August 2023, ..

Chair, He Zhang, "Essays in Financial Economics", School of Economics, Georgia Institute of Technology, May 2020.

Committee Member, Aliaksandr Malokin, "Pathways to Improving Traditional Travel Behavior Models with Travel-based Multitasking and Attitudinal Data", School of Civil and Environmental Engineering, 2019.

Committee Member, Qinyi Liu, "On-Job Learning and Human Capital Accumulation", School of Economics, Georgia Institute of Technology, 2018.

Committee Member, Vitor Kamada, "Innovation in the BioPharmaceutical Industry", School of Economics, Georgia Institute of Technology, 2017.

Committee Member, Yeong Jae Kim, "Accelerating Energy Innovation: Can Energy Efficiency Policy Make a Difference?", School of Public Policy, Georgia Institute of Technology, 2017

Committee Member, Tingting Tong, "Three Essays on Human Capital: Development and Impact", School of Economics, Georgia Institute of Technology, 2016

Committee Member, Xiuli Sun, "Firm-Level Human Capital and Innovation: Evidence from China", School of Economics, Georgia Institute of Technology, 2015.

Committee Member, Aselia Urmanbetova, "Three Essays on Evolving Regulatory Climates and Market Adjustment Strategies", School of Public Policy, Georgia Institute of Technology, 2015.

Committee Member, Greg MacFarlane, "Using Big Data to Model Travel Behavior", School of Civil and Environmental Engineering, Georgia Institute of Technology, 2014.

UG and MS Level

Thesis Advisor, Wenqiao Liang, "The effect of the new rural social pension scheme on the multidimensional poverty of the rural elderly" Center for Economics, Finance, and Management Studies (CEFMS), Hunan University, 2023.

Thesis Advisor, Liu Wanting, "The effect of self-reported health on early retirement", Center for Economics, Finance, and Management Studies (CEFMS), Hunan University, 2023.

Thesis Advisor, Feng Yuqi. "Income and health care Engel curves in China: based on harmonized CHARLS data", Center for Economics, Finance, and Management Studies (CEFMS), Hunan University,. Awarded 2022 (Hunan University).

Thesis Advisor, Zhu Huiying. "The impact of the opening of the high-speed railway on traffic crash mortality", Center for Economics, Finance, and Management Studies (CEFMS), Hunan University, 2021.

Thesis Advisor, Qiu Folian. "The impact of grandparents' childcare on married females' labor supply in China", Center for Economics, Finance, and Management Studies (CEFMS), Hunan University, 2020.

Thesis Advisor, Xu Rui. "The Effect of Health Status on Commuting Mode Choice", Center for Economics, Finance, and Management Studies (CEFMS), Hunan University, 2020.

Thesis Advisor, Xie Shanshan. "Physical Health Effects on Transport Mode to Health Facility Among Middle aged and Elderly People", Center for Economics, Finance, and Management Studies (CEFMS), Hunan University, 2020.

Thesis Advisor. Wenbo Dai. "Analyzing the impact of reconstructing transport sector on GDP after the disaster – evidence from Wenchuan Earthquake", Center for Economics, Finance, and Management Studies (CEFMS), Hunan University, 2019.

Thesis Advisor, Liu Ling, "Cognitive Capacity and Mode Choice", School of Economics, Georgia Institute of Technology, 2018.

Thesis Advisor, Liandong Yang. "Wage Differentials and Employment Type Choice in Urban China", Center for Economics, Finance, and Management Studies (CEFMS), Hunan University, 2018.

Thesis Advisor, Shao Changkai. "A Disaggregate Analysis for Determinants of Household Vehicle Ownership Level in China", Center for Economics, Finance, and Management Studies (CEFMS), Hunan University, 2017.

Thesis Advisor, Liang Kun, "The Impact of Infrastructure on Employment in Chinese Cities---Based on the City Level Panel Data in China", Center for Economics, Finance, and Management Studies (CEFMS), Hunan University, 2017.

Thesis Advisor, Wang Junda. "Development of Private vehicle Ownership Among Provinces in China: A Panel Data Analysis", Center for Economics, Finance, and Management Studies (CEFMS), Hunan University, 2016.

UG Thesis Advisor, Zack Starbuck, "Meta-Analysis on Public Transportation and Its Impact on VMT", School of Economics, Georgia Institute of Technology, 2018.

UG Thesis Advisor, Alexis Andrews, "Effects of the 2013 Revisions to the Hours-of-Service Regulation on Truck-Related Crash Fatalities", School of Economics, Georgia Institute of Technology, 2015.

National Committees

Member, Expert Panel, FHWA Office of Policy and Governmental Affairs, Initiated research study "Develop Marginal Costs of Highway Infrastructure Use", April 2022 – October 2023.

Member, National Research Council, Transportation Research Board, Study Committee on "Study of the Traffic Safety Lessons from Benchmark Nations", 2007-2009.

Commissioned Paper, National Research Council, Transportation Research Board, Committee for Guidance on Setting and Enforcing Speed Limits, "Critical Review of Studies on the Effects of Raising (and Lowering) Speed Limits on Driving Speeds and Safety", 1997.

Member, National Research Council, Transportation Research Board, Study Committee on "Comparative Costs of Rock Salt versus Calcium Magnesium Acetate as a General Road Deicer", 1990-91.

Member, National Research Council, Transportation Research Board, Study Committee to "Identify Research Needs for Occupant Restraints", 1988-1989.

GaTech Service Activities

Member, IAC Emeritus Faculty Advisory Council, April 2026 – present.

Member, Faculty Handbook Sub-Committee on Research, AY2019-20.

Member, IAC Faculty Advisory Board, AY2019-20.

Member, Econometrics Recruiting Committee, AY2018-2010.

Member, Reappointment, Promotion, and Tenure Committee, IAC, AY2019-20.

Member, Reappointment, Promotion, and Tenure Committee, Ga Tech, AY2017-19

Chair, Reappointment, Promotion and Tenure Committee, Ivan Allen College, AY2017-19.

Chair, Reappointment, Promotion and Tenure Committee, School of Economics, AY2017-present.

Chair, Junior and Senior Recruiting Committees, School of Economics, Georgia Institute of Technology, AY2017-18.

Chair, Research Area Committee, School of Economics, Georgia Institute of Technology, Summer/Fall 2016.

Chair, Research Area Committee, School of Civil and Environmental Engineering, Georgia Institute of Technology, Summer 2016.

Member, Search Committee, Frederick L. Olmsted Endowed Chair, School of Civil and Environmental Engineering, 2013-2016.

Member, Search Committee for Director, Division of Professional Practice (DOPP), 2012
Member, Provost GT Savannah Quick Action Task Force, 2011
Member, Ad Hoc Committee, Strategic Energy Institute, Georgia Institute of Technology, 2010.
Member, Research Advisory Committee, Georgia Transportation Institute/University Transportation Center, 2009.
Chair, Reappointment Committee, Chair of School of Public Policy, 2007-2008.
Chair, Reappointment Committee, Chair School of Modern Languages, 2005-2006.
Co-Chair, Ivan Allen College, Founder's Day Committee, 2005-2006.
Member, Ivan Allen College, Centers Committee, 2005-2006.
Member, Georgia Tech – Shanghai Jiao Tong University Working Committee, 2005-2007
Member, Georgia Tech, Singapore Initiatives Steering Committee, 2005-2006
Member, Advisory Board, Georgia Transportation Institute, Georgia Institute of Technology, 2005-2007
Member, Advisory Board, Trucking Industry Program, Industrial and Systems Engineering, Georgia Institute of Technology, 2003-2009.
Member, Technology Square Opening Committee, Fall 2003
Member, School of Public Policy Search Committee, Spring 2002-2003.
Member, Advisory Board, Center for International Business Education and Research, College of Management, Georgia Institute of Technology, 2001-present.

Professional Service Activities

Officer Positions in Professional Organizations

Treasurer, Transportation and Public Utilities Group (TPUG), 2018 – present
Executive Board (Past President), Transportation and Public Utilities Group (TPUG), 2017 – 2019
President Elect, Transportation and Public Utilities Group (TPUG), January 2015 – January 2016, Transportation Research Forum, March 2015 – April 2016.
Executive Vice President, Transportation Research Forum, 2015 – 2016.
Program Vice President, Transportation Research Forum, 2014 – 2015.
President, Transportation and Public Utilities Group (TPUG), January 2016 – January 2017
President, Transportation Research Forum, May 2016 – April 2017.

Editor Activities

Editor, *Airlines and the COVID-19 Pandemic*, *Advances in Airline Economics*, Volume 11 (November 2024).
Associate Editor, *Journal of Management Science and Engineering,* 2022 – present.
Editorial Advisory Board, *Transportation Research E*, 2012 – April 2024.
Editorial Board, *The Journal of Transport Literature*, 2012 – 2021.
Co-Editor (with R. Tay), Special Issue on Special Issue on Alcohol, Road Safety, and Public Policy, *Transportation Research E*, 2004-2005.
Associate Editor, *Transportation Research E*, 2000-2012.

Referee Activities

Referee for transportation and transport economics journals, 2021 – present.
Referee for various economics, transportation, civil engineering, and forest products journals (extent and journals vary depending on current research activities), through 2021
National Science Foundation, 1998
Dryden Press, 1998; McGraw-Hill Book Company, 1991
National Research Council, Transportation Research Board, 1991-1996
National Institute on Alcohol Abuse and Alcoholism, 1990-1991
Social Science and Humanities Research Council of Canada, 1990

External Reviewer Activities

University of Buffalo, External Evaluator, "AI and Quantitative Economics" new MS degree program, Department of Economics, March 2026.

University of Buffalo, External Evaluator, "AI and Quantitative Economics" new UG degree program, Department of Economics, March 2025.

Central University of Economics and Finance, Beijing, China, Fall 2018 - 2025.

Hunan University, Changsha, China, 2016 – 2025.

Third-Year Critical Review, Macalester University, Summer 2019.

Distinguished Service Professorship, Rutgers University, January 2019.

Promotion and Tenure, Texas Tech University, Summer 2018.

NSF CAREER Award, October 2018.

Promotion to Distinguished Professor, Department. of Economics, Rutgers University (Newark), Summer 2016.

Promotion and Tenure, School of Travel Industry Management, University of Hawaii (Manoa), Fall 2016.

Award of Tenure, Department of Economics, Shanghai Jiaotong University, Spring 2016.

Member, Senior Scholars Panel, formed to review proposals for the Early Career Development Committee (ECDC) Site Visit Grant Program, Sloan Industry Studies Program, Spring 2008.

5-year Professorship, Strategic Management Accounting, Lapeenranta University of Technology, Fall 2007, June 2013.

State Council of Higher Education Award, Old Dominion University, Summer 2006.

Distinguished Graduate Faculty Award, Kansas State University, Fall 2004.

Full Professor Appointment, Graduate School of Business, Stanford University, Winter, 2003.

Promotion to Full, Moore School of Business, University of South Carolina, Summer 2003.

Promotion to Full, Robert H. Smith School of Business, University of Maryland, Fall 2001.