

## PATRICK S. McCARTHY

### **GENERAL INFORMATION**

#### **Address**

School of Economics  
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#### **Academic Degrees**

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

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

September 2011 – July 31, 2012, Interim Chair, School of Modern Languages  
August 2011 – present, Professor, School of Economics  
September 2003 – present, Director, Center for Paper Business and Industry Studies (<http://www.cpbis.gatech.edu>)  
January 2001 – September 2003, Associate Director, Research, Center for Paper Business and Industry Studies  
July 2000 – July 2011, Professor and Chair, School of Economics

#### **Other Academic Appointments**

September 2017 – August 2019, Visiting Professor, Hunan University, Changsha, China  
September 2013 – August, Special Term Visiting Senior Professor, Hunan University, Changsha, China  
2008 (September) – 2011 (August), Adjunct (Visiting) Professor, Central University of Finance and Economics, Beijing, China  
2005, 2006, 2007 (March/April) , 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  
1999 (March – April), 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.  
1976 (February-April), Instructor in Economics, California State University, Los Angeles, CA.

#### **Professional Memberships**

American Economic Association  
Southern Economic Association

### **TEACHING AND RELATED ACTIVITIES**

#### **Undergraduate**

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

## Graduate (Masters and PhD)

Research Methods – PhD, Master’s  
Discrete Choice Econometrics – PhD, Master’s  
Microeconomic 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

### Refereed Publications

#### 1. Journal Articles

- “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 Non-Metropolitan Cities”, *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.
- “A 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* 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.
- “A Nested Logit Model of Vehicle Fuel Efficiency and Make-Model Choice” (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 Richard 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 Richard Tay), *Journal of Urban Economics* 34 (1993), 96-100.

- “Economic Regulation and Highway Safety in the Trucking Industry: A Limited Dependent Variable Approach” (with Tom 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 Thomas 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 Richard Tay), *International Journal of Transport Economics* XVIII (1991), 55-70.
- “The Effect of MADD on Drinking-Driving Activities - An Empirical Study” (with Jim 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 Richard Tay), *Transportation Research* 23A (1989), 367-375.
- “An Analysis of the Determinants of Investor Choice” (with Tim Krehbiel), *Quarterly Review of Economics and Business* 29 (1989), 43-56.
- “The Deterrent Effects of Stiffer DUI Laws: An Empirical Study” (with William 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.

## 2. Books

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

## 3. Refereed Chapters in Books

“Multi-Product Cost Analysis of US Airports”. In James Peoples and Wesley Wilson (Eds.), *Advances in Airline Economics*, Volume 5, Emerald Group Publishing Limited, 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.
- “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.
- “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.

#### 4. Chapters in Books

- “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.
- “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.

#### Papers Under Review (PUR), Working Papers (WP), and Works in Progress (WIP)

- “Economic Analysis of Short-Line Railroads in Georgia” (with Z. Zhai) – PUR
- “Lessons for Policy Design: The Case of Pollution Prevention in the Pulp and Paper Industry” (with A. Urmanbetova, D. Matisoff) - PUR
- “Sources of Gain in Airline Merger: Evidence from China Eastern and Shanghai Airlines” (with C.Y. Ho and Y. Wang) - WP
- “A Disaggregate Analysis of Household Vehicle Ownership in China” (with C. Shao) – WIP
- “Cost-Effectiveness of Rural Transit in Georgia” – WP (with A. Urmanbetova, L. Garrow, G. Shukla)
- “Rural Transit Price Sensitivity” – WIP
- “Georgia rural transit cost and operations” – WIP
- “Environmental Compliance and Investment Behavior of Capital-Intensive Industries” (with A. Urmanbetova, Dan Matisoff, and Doug Noonan)” – WP
- “Responsive Regulation: Target vs. Budget-Driver Regulation” (with A. Urmanbetova and Dan Matisoff) – WP

#### Completed Projects and Reports

- “Pulp and Paper Economic Indicators: A Comparative Analysis: Annual Report” (with A. Urmanbetova), Center for Paper Business and Industry Studies Report, CPBIS-FR-2014-01, July 2014; CPBIS-FR-2014-01, September 2015, October 2016.
- “Annual Report”, Center for Paper Business and Industry Studies, 2012, 2013, 2014, 2015.
- “The Effect of GDP on US Pulp and Paper Output: A Time Series Analysis”, Center for Paper Business and Industry Studies Report, CPBIS-FR-2013-03, March 2013.
- “Georgia’s Pulp and Paper Industry, 1990 – 2008: Establishments, Employment, and Sales”, Center for Paper Business and Industry Studies Report, CPBIS-FR-2013-02, February 2013.
- “Pulp and Paper Economic Indicators: A Comparative Analysis”, Center for Paper Business and Industry Studies Report, CPBIS-FR-2013-01, February 2013.
- “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.
- “Economic Growth through Safe, Targeted Infrastructure Investment: Airport Runway Capacity and Economic Development” (with D. Tittle), Final Report, Federal Aviation Administration, Contract No. DTFAWA-09-A-80021, 2009-2010.
- “Center for Paper Business and Industry Studies: Final Report, Alfred P. Sloan Foundation, October 2000 – December 2009”, December 2009.
- “Center for Paper Business and Industry Studies”. Alfred P. Sloan Foundation, Industry Studies Program. Annual Reports: 2003, 2004, 2005, 2006, 2007, 2008.

- “Industry Consolidation and Price–Cost Margins: Evidence from the Pulp and Paper Industry” (with. H. Li, A. Urmanbetova), Center for Paper Business and Industry Studies, November 2004.
- “Prices, Industry Consolidation, and Profit Margins” (with H. Li) Center for Paper Business and Industry Studies, February 2004.
- “Alcohol Related Crashes Among the Older Population”, National Institute on Alcohol Abuse and Alcoholism, National Institutes of Health, Final Report, September 2002.
- “Integrated Management and Decision Support”, National Science Foundation, Co-Principal Investigator, 1995
- “Expanded Use of Longer Combination Vehicles: Implications for Highway Safety,” prepared for AAA Foundation for Traffic Safety, January 1992.
- “Highway Speed and Alcohol Related Accidents”, Final Report submitted to National Institute on Alcohol Abuse and Alcoholism, February 1991.
- “Highway Safety and the 65 MPH Maximum Speed Limit: An Empirical Study,” prepared for the AAA Foundation for Traffic Safety, October 1988.
- “The Effect of Automobile Safety on Vehicle Type Choice: An Empirical Study,” prepared for the AAA Foundation for Traffic Safety, June 1987.
- “La possession d'une automobile, le lieu de domicile et le choix du mode de transport dans la communauté urbaine de Montreal” (with S. Ahsan and I. Irvine), FCAC, Government of Quebec, 1980.

### **Unpublished Papers**

- “Forecasting Demands for Transport Infrastructure in Developing Countries (with J. Yang) – WP
- “The Determinants of the Inter-Provincial Migration in China” (with H. Li and R. Li)
- “The Paper Industry in China” (with M. Na and J. Yang)
- “The Effect of GDP on US Pulp and Paper Output: A Time Series Analysis”
- “Driving Under the Influence and Older Driver-Involved Crash Severity: An Ordered Probit Analysis”
- “Outcomes of Consumer Information Search for Durable Goods: Structural Equations Analysis” (with G. Wright and P. Zantek)
- “An Empirical Analysis of the Costs and Benefits of Local Groundwater Management Institutions” (with C. Harter and E. Loehman)
- “Effects of Consumer Search on Price Savings, Perceived Quality, and Post-Purchase Satisfaction for Durable Goods” (with G. Wright and P. Zantek)
- “Assessing the Effects of Motor Vehicle Highway Safety Policies,” June 1994.
- “Motor Carrier Productivity and Highway Safety: Expanding the Use of Longer Combination Vehicles,” 1992.
- “Dealer Experience and 'Shopping Trip' Behavior in a Consumer Durables Market: Some Market Structure Statistics” (with G. Wright and R. Chandrasekharan), 1991.
- “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.
- “The Effect of Banning Common Site Sales on Alcohol Related Auto Accidents in California: An Empirical Study” (with J. Umbeck), July 1989.
- “An Empirical Study of Import Market Share” (with A. Farmer), August 1987.
- “The Potential Market for a Shared Vehicle Fleet,” January 1987
- “The Impact of Interest Rate Regulations on Household Credit Card Choices: An Empirical Study,” March 1987.
- “Modeling Credit Card Choices: Some Preliminary Results,” November 1986.
- “A Methodological Note on Assessing Potential Participation When a New Alternative Is Introduced: The Case of a Shared Vehicle Fleet,” September 1985.

### **Invited Activities**

- 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, Lappeenranta University of Technology, Lappeenranta, Finland, June 2006.

Invited Presentation, "Industry Regions: Mature North America and Emerging China". Game Global Workshop, Lappeenranta University of Technology, Lappeenranta, Finland, June 2006,

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

"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.

"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", 8<sup>th</sup> 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 Organizing, Planning, Chairing** (most recent first)

- Session Organizer, “Topics in Transportation Economics”, Transportation and Public Utilities Group, Allied Social Science Association, January 2017.
- Session Organizer, “Airports, Pricing, and Capacity”, Transportation and Public Utilities Group and AEA, Allied Social Science Association, January 2017.
- Session Organizer, “Topics in Transportation Economics”, Transportation and Public Utilities Group, Allied Social Science Association, January 2016.
- Session Organizer, “Economic Cost and Efficiency in Transportation”, Transportation and Public Utilities Group, 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, to be held 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 Chair, Presenter, Discussant** (most recent first)

- “Economic Impact of Short Line Rails in Georgia”, 59<sup>th</sup> Annual Transportation Research Forum, Minneapolis, April 2018.
- Discussant, “Rent-Sharing by Suppliers: Pricing Crude Rail from the Bakken”, 59<sup>th</sup> Annual Transportation Research Forum, Minneapolis, April 2018.
- “Private Vehicle Ownership in Provincial China”, Presented at the 58<sup>th</sup> Annual Transportation Research Forum, Chicago (USA), April 20-21, 2017; Chinese Economists Society, Nanjing (China), June 10-11.
- Session Chair, “Airports, Pricing, and Capacity”, Transportation and Public Utilities Group and AEA, Allied Social Science Association, January 2017.
- Session Chair, “Topics in Transportation Economics”, Transportation and Public Utilities Group, Allied Social Science Association, January 2016.
- 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 4<sup>th</sup> 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”, 16<sup>th</sup> International Conference on Alcohol, Drugs, and Traffic Safety, Montreal, Canada, August 2002.
- “The Effect of Alcohol and Highway Speed Policies on Older Drivers”, 1<sup>st</sup> International Conference on Transport Research in Greece, Athens, Greece, February 2002.
- “An Analysis of DUI Behavior in the US”, 9<sup>th</sup> 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 77<sup>th</sup> Annual Meeting, Washington D. C., January 1998.
- “The Effect of Privatization on Public Transit Costs” (with M. Karlaftis), 39<sup>th</sup> 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), 8<sup>th</sup> 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), 2017-2019.
- 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 communauté urbaine de Montreal” (with S. Ahsan and I. Irvine).

Canada Council Research Grant, 1977-1978

## **Consulting**

“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**

Herbert O. Whitten TRF Service Award, 59<sup>th</sup> Annual Transportation Research Forum Conference, Minneapolis, April 2018.

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

### **Recent Student Supervision and PhD Committees**

- Ph.D. Thesis Chair, two students (He Zhang, Yushou Yang).
- Ph.D Thesis Committee Member, Qinyi Liu, School of Economics, “On-Job Learning and Human Capital Accumulation”, Awarded 2018
- Ph.D Thesis Committee Member, Vitor Kamada, School of Economics, “Innovation in the BioPharmaceutical Industry”, Awarded 2017
- Ph.D Thesis Committee Member, Yeong Jae Kim, School of Public Policy “Accelerating Energy Innovation: Can Energy Efficiency Policy Make a Difference?”, Awarded 2017
- Ph.D Thesis Committee Member, Tingting Tong, School of Economics, “Three Essays on Human Capital: Development and Impact”, Awarded 2016
- Ph.D Thesis Chair, Gaoyuan Zhao, School of Economics, on-going, “Essays on Productivity”
- Ph.D Thesis Committee Member, Xiuli Sun, School of Economics, “Firm-Level Human Capital and Innovation: Evidence from China”, Awarded 2015.
- Ph.D Thesis Committee Member, Aselia Urmanbetova, School of Public Policy, Ga Tech, “Three Essays on Evolving Regulatory Climates and Market Adjustment Strategies”, Awarded 2015.
- Ph.D Thesis Committee Member, Greg MacFarlane, School of Civil and Environmental Engineering, Ga Tech, “Using Big Data to Model Travel Behavior”, Awarded 2014.
- MS Thesis Advisor, Wang Junda. “Development of Private vehicle Ownership Among Provinces in China: A Panel Data Analysis”, Awarded 2016, (Hunan University).
- MS Thesis Advisor, Shao Changkai. “A Disaggregate Analysis for Determinants of Household Vehicle Ownership Level in China”, Awarded 2017 (Hunan University).
- MS Thesis Advisor, Liang Kun, “The Impact of Infrastructure on Employment in Chinese Cities---Based on the City Level Panel Data in China”, Awarded 2017 (Hunan University).
- UG Thesis Advisor, Alexis Andrews, “Effects of the 2013 Revisions to the Hours-of-Service Regulation on Truck-Related Crash Fatalities”, Spring 2015.

### **National Committees**

- 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.

### **Committee and Professional Service Activities**

- Member, Reappointment, Promotion, and Tenure Committee, Ga Tech AY2017-18
- Chair, Reappointment, Promotion and Tenure Committee, Ivan Allen College, AY2017-18.
- Chair, Reappointment, Promotion and Tenure Committee, School of Economics, AY2017-18.
- Chair, Junior and Senior Recruiting Committees, School of Economics, Georgia Institute of Technology, AY2017-18.
- External Reviewer, Promotion to Associate Professor with tenure, School of Travel Industry Management, University of Hawaii (Manoa), Fall 2016.
- 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.
- External Reviewer, Promotion to Distinguished Professor, Department of Economics, Rutgers University (Newark), Summer 2016.
- External Reviewer, Award of Tenure, Department of Economics, Shanghai Jiaotong University, Spring 2016.
- President, Transportation Research Forum, May 2016-April 2017.

President, Transportation and Public Utilities Group (TPUG), January 2016 – January 2017  
 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.  
 Member, Search Committee, Frederick L. Olmsted Endowed Chair, School of Civil and Environmental  
 Engineering, 2013-2016.  
 External Reviewer, Dr. Satu Pätäri, 5-year Professorship, Strategic Management Accounting, Lappeenranta  
 University of Technology, June 2013.  
 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-present.  
 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.  
 Chair, Reappointment Committee, Chair of School of Public Policy, 2007-2008.  
 External Reviewer, Dr. Jaana Sandström, 5-year Professorship, Strategic Management Accounting,  
 Lappeenranta University of Technology, Fall 2007.  
 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-present.  
 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.

#### **Editor Activities:**

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.  
 Editorial Board, *Transportation Research E*, 2012-2017.  
 Board of Advisory Editors, *Journal of Transport Literature*, 2012 – present.

#### **Referee Activities:**

Annually referee for various economics, transportation, civil engineering, and forest products journals  
 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