

**ALAN ERERA**  
**ASSOCIATE PROFESSOR**  
**SCHOOL OF INDUSTRIAL & SYSTEMS ENGINEERING**

**I. EARNED DEGREES**

Ph.D.	<i>University of California, Berkeley, 2000</i>	Industrial Engineering & Operations Research
M.S.	<i>University of California, Berkeley, 1996</i>	Industrial Engineering & Operations Research
B.S.Eng.	<i>Princeton University, 1993</i>	Civil Engineering & Operations Research, <i>summa cum laude</i>

**II. EMPLOYMENT**

7/2007 – present	Associate Professor, School of Industrial & Systems Engineering, Georgia Institute of Technology.
1/2001 – 6/2007	Assistant Professor, School of Industrial & Systems Engineering, Georgia Institute of Technology.
2/2003 – 3/2003	Visiting Fellow, The Logistics Institute—Asia Pacific, National University of Singapore.
5/2002 – 6/2002	Visiting Associate Professor, National University of Singapore.
8/2000 – 12/2000	Berkeley Fellow, University of California, Berkeley.
8/1997 – 7/2000	Dwight D. Eisenhower Transportation Fellow, University of California, Berkeley.
8/1995 – 7/1997	Berkeley Fellow, University of California, Berkeley.
6/1993 – 7/1995	Programmer/Analyst, ALK Associates, Inc., Princeton, NJ

**III. RESEARCH INTERESTS**

1. Freight transportation planning and operations
2. Dynamic decision-making for logistics systems
3. Design of logistics systems under uncertainty
4. Supply chain network resiliency and security

**IV. RESEARCH FUNDING AND LEADERSHIP**

**Research Center Leadership**

1. *Transportation Research Center for Freight, Trade, Security, and Economic Strength*  
Leadership Role: Center Associate Director  
Source: Federal Highway Administration  
Funded Amount: \$431,000 (2005-2006)  
\$967,000 (2006-2007)
2. *NEES-GC: Risk Mitigation for Strategic Ports*  
Leadership Role: Integrated System Performance Team Co-Leader  
Source: National Science Foundation (NSF)  
Funded Amount: \$3,600,000 (2005-10)

**Selected Additional Research Projects**

3. *Intermodal Freight Security, Efficiency, and Reliability*  
Source: National University of Singapore, TLI-AP, Singapore EDB  
Funded Amount: \$159,000 (2002-2004)

4. *Leaders in Logistics: Roadway Express and Yellow-Roadway Corporation*  
Source: Yellow-Roadway Corporation, TLI  
Funded Amount: \$272,000 (2002-2009)
5. *Workshop on Supply Chain Security and Productivity: Research and Education Implications*  
Source: National Science Foundation (NSF) DMII#0334492  
Funded Amount: \$30,000 (2003-2004)
6. *Petrochemical Logistics Research Group*  
Source: National University of Singapore, TLI-AP, Singapore EDB  
Funded Amount: \$193,000 (2003-2004)
7. *SGER: Multi-scale Modeling for Homeland Security and Supply Chain Logistics Efficiency*  
Source: National Science Foundation (NSF) DMS/Green# 0426056  
Funded Amount: \$75,000 (2004-2005)
8. *Value of Supply Chain Efficiencies from Improved Demand Sensing*  
Source: General Motors  
Funded Amount: \$83,000 (2004-2005)
9. *Security and Post-harvest Food Supply Chain Productivity and Resiliency*  
Source: DHS National Center for Food Protection and Defense/University of Minnesota  
Funded Amount: \$360,000 (2004-2007)
10. *SGER: Digital Technology Enhanced Collection of Perishable Hurricane Damage Data*  
Source: National Science Foundation (NSF)  
Funded Amount: \$28,000 (2005-06)
11. *Determining the Feasibility of an Inland Intermodal Facility along I-16, Georgia*  
Source: Swainsboro/Emanuel County Joint Development Authorities  
Funded Amount: \$50,000 (2005)
12. *Independent Evaluation of an Expanded Satellite Based Mobile Communications Tracking System*  
Source: Federal Motor Carrier Safety Administration (FMCSA)  
Funded Amount: \$149,000 (2005-2007)
13. *Globalization and Energy Use*  
Source: Creating Energy Options (CEO) Program, Georgia Institute of Technology  
Funded Amount: \$20,000 (2006-07)
14. *Leaders in Logistics: United Distributors*  
Source: United Distributors, Inc.  
Funded Amount: \$65,000 (2006-07)
15. *Leaders in Logistics: Saia*  
Source: Saia  
Funded Amount: \$330,000 (2007-2010)
16. *Freight Transportation Risk and Resiliency in International Food Supply Chains*  
Source: DHS National Center for Food Protection and Defense/University of Minnesota  
Funded Amount: \$231,000 (2007-2009; 2010 NCE)
17. *Dynamic Route Guidance: Application within Cross-town Improvement Project*

Source: SAIC  
Funded Amount: \$25,000 (2009-2010)

18. *Methodologies to Estimate the Economic Impacts of Disruptions to Goods Movement System*  
Source: The National Academies  
Funded Amount: \$64,000 (2010-2011)

19. *Distribution Network Re-planning*  
Source: Farmers Furniture grant to Supply Chain and Logistics Institute  
Total Amount: \$17,000 (2010)

20. *Risk Mitigation and Food Supply Chain Design and Control*  
Source: DHS National Center for Food Protection and Defense/University of Minnesota  
Total Amount: \$996,000 (2010-2016)

## V. SCHOLARLY ACCOMPLISHMENTS

### A. PUBLISHED BOOKS AND PARTS OF BOOKS

#### Book Chapters

B1. A.L. Erera and K.R. Smilowitz. "Intermodal Drayage Routing and Scheduling," In P. Ioannou, editor, *Intelligent Freight Transportation*, Automation and Control Engineering Series, CRC Press, pp. 171-188, 2008.

### B. REFEREED PUBLICATIONS

#### Journal Articles (appeared and accepted)

- J1. A.L. Erera and A.L. Kornhauser. "Design and Analysis of Advanced Transit Systems Using Interactive Computer Animation," *Transportation Research Record*, No. 1402, pp. 110-116, 1993.
- J2. A.L. Erera, T. Lawson, and C.F. Daganzo. "A Simple, Generalized Method for Analysis of a Traffic Queue Upstream of a Bottleneck," *Transportation Research Record*, No. 1646, pp. 132-140, 1998.
- J3. C.F. Daganzo and A.L. Erera. "On Planning and Design of Logistics Systems for Uncertain Environments," In M.G. Speranza and P. Stähly, editors, *New Trends in Distribution Logistics*, volume 480 of Lecture Notes in Economics and Mathematical Systems, Springer-Verlag, 1999.
- J4. I. Adler, A.L. Erera, D.S. Hochbaum, E.V. Olinick. "Baseball, Optimization, and the World Wide Web," *Interfaces*, Volume 32, Number 2, pp. 12-22, 2002.
- J5. A.L. Erera, C.F. Daganzo, and D.J. Lovell. "The Access Control Problem on Capacitated FIFO Networks with Unique O-D Paths is Hard," *Operations Research*, vol. 50, pp. 736-743, 2002.
- J6. B.M. Lewis, A.L. Erera, and C.C. White, III. "Optimization Approaches for Efficient Container Security Operations at Transshipment Seaports," *Transportation Research Record*, No. 1822, pp. 1-8, 2003.
- J7. A.L. Erera, J.C. Morales, and M.W.P. Savelsbergh. "Global Intermodal Tank Container Management for the Chemical Industry," *Transportation Research Part E: Logistics and Transportation Review*, Special Issue on Global Supply Chain Management, vol. 41, pp. 551-566, 2005.

- J8. B.M. Lewis, A.L. Erera, and C.C. White, III. "Impact of Temporary Seaport Closures on Freight Supply Chain Costs," *Transportation Research Record*, No. 1963, pp. 64-70, 2006.
- J9. A.L Erera, J.C. Morales, and M.W.P. Savelsbergh, "Robust Optimization for Empty Repositioning Problems," *Operations Research*, vol. 57, pp. 468-483, 2009.
- J10. B. Karacik, A.L. Erera, and M.W.P. Savelsbergh. "A Dynamic Driver Management Scheme for Less-than-Truckload Carriers," *Computers and Operations Research*, Special Issue on Topics in Real-Time Supply Chain Management, vol. 35, pp.3397-3411, 2008.
- J11. A. Ak and A.L. Erera, "A Paired-Vehicle Recourse Strategy for the Vehicle Routing Problem with Stochastic Demands," *Transportation Science*, vol. 41, pp. 222-237, 2007.
- J12. R. Namboothiri and A.L. Erera. "Local Drayage Routing and Scheduling Given a Port Access Appointment System", *Transportation Research Part E: Logistics and Transportation Review*, vol. 44, pp. 185-202, 2008.
- J13. S.M. Morris, A.L. Erera, and C.C. White, III. "Impact of Using Designated Secure Rest Facilities on Single Lane Truck Dispatching Productivity," *Transportation Research Record*, No. 2032, pp. 35-42, 2007.
- J14. A.L. Erera, M. Hewitt, B. Karacik, and M.W.P. Savelsbergh. "Locating Drivers in a Trucking Terminal Network," *Transportation Research Part E: Logistics and Transportation Review*, vol. 45, pp. 988-1005, 2009.
- J15. M.A. Nowak and A.L. Erera. "Evaluation of an Expanded Satellite-based Mobile Communications Tracking System," *Journal of Transportation Management*, vol. 18, no. 1, pp. 48-65, 2007.
- J16. A.L. Erera, M.W.P. Savelsbergh, and E. Uyar, "Fixed Routes with Backup Vehicles for Stochastic Vehicle Routing Problems with Time Constraints," *Networks*, vol. 54, pp. 270-283, 2009.
- J17. A.L Erera, J.C. Morales, and M.W.P. Savelsbergh, "The Vehicle Routing Problem with Stochastic Demands and Duration Constraints," *Transportation Science*, vol. 44, pp. 474-492, 2010.
- J18. A. Carbajal, A.L. Erera, and M.W.P. Savelsbergh, "Balancing Fleet Size and Repositioning Costs in LTL Trucking," to appear, *Annals of Operations Research*, 2010.
- J19. L.M. Ivey, G.J. Rix, S.D. Werner, and A.L. Erera, "Framework for Earthquake Risk Assessment for Container Ports," *Transportation Research Record*, No. 2166, pp. 116-123, 2010.
- J20. A.R. Bennett and A.L. Erera, "Dynamic Periodic Fixed Appointment Time Scheduling for Home Health," to appear, *IIE Transactions on Health Care Systems Engineering*, 2010.
- J21. G. Zhang, K. Smilowitz, and A.L. Erera, "Dynamic Planning for Urban Drayage Operations," to appear, *Transportation Research Part E: Logistics and Transportation Review*, 2010.
- J22. N. Agatz, A.L. Erera, M.W.P. Savelsbergh, and X. Wang, "Dynamic Ride-Sharing: a Simulation Study in Metro Atlanta," to appear, *Transportation Research Part B: Methodological*, 2011.

#### **Journal Articles (under review)**

- R1. A. Ak and A.L. Erera, "A Nested Tabu Search Algorithm for the Berth Allocation Problem."
- R2. A.L. Erera, M. Hewitt, M.W.P. Savelsbergh, and Y. Zhang, "Improved Load Plan Design Through Integer Programming Based Local Search."
- R3. A.L. Erera, M. Hewitt, M.W.P. Savelsbergh, and Y. Zhang, "Refined Execution Cost Estimation for LTL Load Plans."
- R4. B.M. Lewis, A.L. Erera, M. Nowak, and C.C. White, III. "Managing Inventory In Global Supply Chains Facing Port-of-Entry Disruption Risks."

## **Refereed Conference Proceedings**

- C1. A. Erera, R. Grandinetti, and A.L. Kornhauser. "Interactive Design and Real-Time 3-Dimensional Simulation of Personal Rapid Transit Networks," In *Proceedings of the National Conference on Advanced Technologies for Urban Transit*, San Francisco, August, 1992.
- C2. A.L. Kornhauser, A. Erera, and J.E. Anderson. "Interactive Design, Simulation and Photo-realistic Animation of a Personal Rapid Transit System," In *Advanced Transport Telematics: Proceedings of the 27th International Symposium on Automotive Technology and Automation*, Aachen, Germany, Oct 31-Nov 4, 1994.
- C3. B.M. Lewis, A.L. Erera, and C.C. White, III. "Efficient Container Security Operations at Transshipment Seaports," In *Proceedings of the Inaugural Annual Intelligent Transportation Society (Singapore) Symposium*, Singapore, September 5-6, 2002.
- C4. R. Namboothiri and A.L. Erera. "A Set Partitioning Heuristic for Local Drayage Routing under Time-Dependent Port Delay", In *IEEE SMC 2004 Conference Proceedings*, 2004 IEEE International Conference on Systems, Man and Cybernetics, pp. 3921-3926, The Hague, Netherlands, October 2004.
- C5. R. Namboothiri and A.L. Erera. "A Column Generation Heuristic for Local Drayage Routing Given a Port Access Appointment System", In *Proceedings of the METRANS National Urban Freight Conference*, Long Beach California, February 2006.
- C6. O. Ortiz, A.L. Erera and C. White. "Bounds on the Value of Demand Observability for Inventory Control with Markovian Demand and Unobserved Lost Sales", In *Proceedings of the 2006 MSOM (Manufacturing and Service Operations Management) Conference*, Atlanta, GA, June 2006.
- C7. G. Zhang, K. Smilowitz, and A.L. Erera. "Dynamic Planning for Urban Drayage Operations," accepted, *METRANS National Urban Freight Conference*, 2007.

## **C. OTHER PUBLICATIONS**

### **Refereed Conference Extended Abstracts**

1. A.L. Erera, P. Warier, and M. Savelsbergh. "Operational Support for Regional LTL Carriers," *TRISTAN V: Triennial Symposium on Transportation Analysis*, Le Gosier, Guadeloupe, Jun 13-18 2004.
2. A.L. Erera, J.C. Morales, and M.W.P. Savelsbergh. "Robust Optimization for Empty Repositioning Problems," *Odysseus 2006: Third International Workshop on Freight Transportation and Logistics*, Altea, Spain, May 23-26, 2006.
3. M.W.P. Savelsbergh, A.L. Erera, and J.C. Morales. "A Robust Optimization Framework for the Vehicle Routing Problem with Uncertain Demands and Duration Constraints," *Odysseus 2006: Third International Workshop on Freight Transportation and Logistics*, Altea, Spain, May 23-26, 2006.
4. A.L. Erera, J. Morales, and M. Savelsbergh. "Robust Duration-Constrained Tours for Vehicle Routing Problems with Stochastic Demands," *TRISTAN VI: Triennial Symposium on Transportation Analysis*, Phuket, Thailand, Jun 10-15, 2007.
5. A.L. Erera, M. Hewitt, M.W.P. Savelsbergh, and Y. Zhang. "Improved Load Plan Design through Integer Programming-Based Local Search," *Odysseus 2009: Fourth International Workshop on Freight Transportation and Logistics*, Cesme, Turkey, May 26-29, 2009.
6. A.L. Erera, M. Hewitt, M.W.P. Savelsbergh, and Y. Zhang. "Refined Execution Cost Estimation for LTL Load Plans," *Odysseus 2009: Fourth International Workshop on Freight Transportation and Logistics*, Cesme, Turkey, May 26-29, 2009.

7. N. Agatz, A.L. Erera, M.W.P. Savelsbergh, and X. Wang. “Dynamic Ride-sharing in Metro Atlanta,” *TRISTAN VII: Triennial Symposium on Transportation Analysis*, Tromso, Norway, Jun 20-25, 2010.

### **Trade Journal Articles**

1. B.M. Lewis, A.L. Erera, and C.C. White. “Port Security and Efficiency: A U.S. Perspective,” *Port of Singapore Magazine*, Maritime and Port Authority of Singapore, Issue 9, pp. 6-9, July 2002.

### **Technical Reports**

1. A.L. Erera, K.H. Kwek, N. Goswami, C.C. White III, and H. Zhang. “Comparison of Singapore and U.S. Sea Cargo Container Export Processes,” The Logistics Institute—Asia Pacific White Paper Series, National University of Singapore and Georgia Institute of Technology, May 2003.
2. A.L. Erera, K.H. Kwek, N. Goswami, C.C. White III, and H. Zhang. “Cost of Security for Sea Cargo Transport,” The Logistics Institute—Asia Pacific White Paper Series, National University of Singapore and Georgia Institute of Technology, May 2003.
3. A.L. Erera, R. Lann, M. Nowak, and B.W. Riall. “Cordele Inland Port Feasibility Study,” Prepared for Cordele-Crisp Industrial Development Commission, Georgia Tech Research Corporation, Atlanta, GA, September 2003.

## **PRESENTATIONS**

### **Invited Seminars**

1. “Stochastic and Robust Optimization in Logistics,” Spring School on Combinatorial Optimization in Logistics, CIRRELT, Universite de Montreal, Quebec, Canada, May 18, 2010.
2. “Dynamic Ride-Sharing in Metro Atlanta,” Atlanta Model Users Group Meeting, Atlanta Regional Commission, February 26, 2010 (with Niels Agatz).
3. “Constructing Fixed Delivery Routes for Vehicle Routing Problems with Stochastic Customers,” Dipartimento di Elettronica, Informatica e Sistemistica (DEIS), Università di Bologna, Bologna, Italy, October 5, 2007.
4. “Building Robust Plans for Freight Repositioning,” Department of Industrial Engineering,” Campus Toluca, Tecnológico de Monterrey, May 4, 2007.
5. “Building Robust Plans for Freight Repositioning,” Department of Industrial Engineering and Management Sciences, Northwestern University, Apr 11, 2006.
6. “Building Robust Plans for Freight Transportation Systems,” Institute for Transportation Studies, University of California, Berkeley, Mar 17, 2006.
7. “Using a Partially-Observed Markov Decision Model to Estimate Value of Demand Sensing Data”, General Motors Research Laboratory, Bangalore, India, Jan 5, 2005.
8. “Robust Models for Dynamic Transportation Asset Repositioning,” Department of Industrial and Systems Engineering, Auburn University, Dec 2, 2004.
9. “Models for Design and Operation of Freight Transportation Logistics Systems,” TLI-AP Industry Seminar Series, National University of Singapore, Mar 11, 2003.
10. “Transportation Logistics System Design via Continuous Approximations: Fundamentals and Recent Results,” TLI-AP Academic Seminar Series, National University of Singapore, Feb 28, 2003.

11. "Real-time Coordination in Stochastic and Dynamic Vehicle Scheduling," TLI-AP Academic Seminar Series, National University of Singapore, Jun 11, 2002.
12. "Vehicle Routing and Scheduling in Real-time: a User's Guide," TLI-AP Industry Seminar Series, National University of Singapore, Jun 7, 2002.
13. "Design of large-scale vehicle routing systems for uncertain environments," School of Industrial and Systems Engineering, Georgia Institute of Technology, April 2000.
14. "Design of large-scale vehicle routing systems for uncertain environments," Department of Civil Engineering, Texas A&M University, March 2000.
15. "Design of large-scale vehicle routing systems for uncertain environments," Department of Civil and Environmental Engineering, University of Illinois at Urbana-Champaign, March 2000.
16. "Design of large-scale vehicle routing systems for uncertain environments," Department of Industrial Engineering and Management Sciences, Northwestern University, February 2000.
17. "Design of large-scale vehicle routing systems for uncertain environments," Department of Industrial Engineering and Management Sciences, Purdue University, February 2000.

### **Invited Conference and Workshop Presentations (without Proceedings)**

1. A.L. Erera (speaker), J. Morales, and M.W.P. Savelsbergh. "Tour Duration Considerations in Vehicle Routing Problems with Stochastic Demands," ROUTE 2007 International Workshop on Vehicle Routing and Transportation, Jekyll Island, Georgia, May 13-16, 2007.
2. A.L. Erera (panelist). "Security Issues and Requirements in Agricultural and Food Truck Movements—Keeping America's Food Supply Safe," National Summit on Agricultural and Food Truck Transport for the Future, Agricultural and Food Transporters Conference, Washington, DC, Apr 25-26, 2007.
3. A.L. Erera (speaker). "Perspectives on Research in Supply Chain Security and Resiliency," Invited Session on Supply Chain Security and Vulnerability, Junior Faculty Interest Group Cluster, INFORMS 2006 Annual Meeting, Pittsburgh, PA, Nov 5-8, 2006.
4. A.L. Erera (speaker). "Benchmarking and Assessment of Food Supply Chain Protection and Defense: Transportation Service Providers," Terrorism, Pandemics, and Natural Disasters: Food Supply Chain Preparedness-Response-Recovery Symposium, The Food Industry Center, University of Minnesota, Minneapolis, MN, Nov 1, 2006.
5. A.L. Erera (speaker). "Providing Security to Food Transportation Systems without Compromising Productivity," First Annual Food Protection and Defense Research Conference, Institute of Food Technologists, Atlanta, GA, Nov 3-4, 2005.
6. A.L. Erera (speaker), J.C. Morales, and M.W.P. Savelsbergh. "Robust Optimization for Empty Repositioning Problems," 3<sup>rd</sup> U.S.-European Workshop on Logistics and Supply Chain Management: An International Research Perspective, RWTH-Aachen and U.C. Berkeley, Berkeley, CA, Oct 12, 2005.
7. A.L. Erera (speaker). "Transportation Security and Productivity," Spring School on Transportation, HEC Montreal, Montreal, Quebec, Canada, May 12-14, 2004.
8. A.L. Erera (speaker) and C.C. White, III. "Economics of Security: A Cost/Benefit Analysis," Logistics Security in the Supply Chain Forum: Strengthening the Link, Frontline's International Supply Chain Week Conference and Expo, Chicago, IL, Sep 15-18, 2003.
9. A.L. Erera and K.R. Smilowitz (speakers). "Logistics and Network Design," Special Session: *Foundations of Traffic Flow Theory: In Memory of Gordon Newell*, Transportation Research Board Annual Meeting, Washington, D.C., Jan 13-17, 2002.
10. C.F. Daganzo (speaker) and A.L. Erera. "Coordinated Vehicle Routing with Uncertain Demand," ROUTE 2000 International Workshop on Vehicle Routing, Skodsborg, Denmark, Aug 16-19, 2000.

## VI. TEACHING

### A. INDIVIDUAL STUDENT GUIDANCE

#### Post-doctoral Researcher Guidance

1. Niels Agatz, *Dynamic Ride-Sharing*, 2009-2010 (co-advised with M. Savelsbergh).  
Research Sponsor: Netherlands Organisation for Scientific Research (NWO)  
First Position: Assistant Professor, Rotterdam School of Management

#### Ph.D. Student Guidance

##### *Completed*

1. Ricardo Gatica, *A Binary Dynamic Programming Problem with Affine Transition and Reward Functions: Properties and Algorithm*, 2003 (co-advised with J. VandeVate).  
Research Sponsor: The Logistics Institute: United States Postal Service  
First Position: Assistant Professor, U. Católica de Valparaíso, Chile
2. Brian Lewis, *Inventory Control with Risk of Major Supply Chain Disruptions*, 2005 (co-advised with C. White).  
Research Sponsor: Dwight D. Eisenhower Graduate Transportation Fellowship  
First Position: Vice President of Professional Services, Vanguard Software Corp.
3. Rajeev Namboothiri, *Planning Container Drayage Operations at Congested Seaports*, 2006.  
Research Sponsor: Sloan Trucking Industry Program  
Current Position: Visiting Scholar, Indian School of Business; Post-doctoral Research, CIRRELT-CRT, Montreal
4. Juan Carlos Morales, *Planning Robust Freight Transportation Operations*, 2006 (co-advised with M. Savelsbergh).  
Honors: Dissertation awarded First Prize, 2007 Transportation Science and Logistics Society Dissertation Award, INFORMS  
Research Sponsors: The Logistics Institute Asia-Pacific, Swainsboro/Emanuel County Joint Development Authorities  
First Position: Senior Operations Research Specialist, BNSF Railway Company
5. Burak Karacik, *Driver Assignment for Less-than-Truckload Carriers*, 2006 (co-advised with M. Savelsbergh).  
Research Sponsor: The Logistics Institute: Yellow-Roadway Corporation  
First Position: Scientist, Manhattan Associates
6. Prashant Warier, *Dynamic Decision Support for Regional Less-than-truckload Carriers*, 2007 (co-advised with M. Savelsbergh).  
Research Sponsor: The Logistics Institute: ORTEC  
First Position: Research Scientist III, SAP
7. Steve Morris, *Truck Dispatching and Fixed Driver Rest Locations*, 2007.  
Research Sponsor: National Center for Food Protection and Defense  
First Position: Senior Operations Analysis Manager, Capital One
8. Olga Ortiz, *Stochastic Inventory Control with Partial Demand Observability*, 2008 (co-advised with C. White).  
Research Sponsor: General Motors Corporation  
First Position: Operations Research Analyst, Frito Lay Corporation

9. Aykagan Ak, *Berth and Quay Crane Scheduling: Problems, Models, and Solution Methods*, 2008.  
 Research Sponsor: National Science Foundation, USDOT  
 First Position: Scientist, Manhattan Associates
10. Emrah Uyar, *Routing in Stochastic Environments*, 2008 (co-advised with M. Savelsbergh).  
 Research Sponsor: National Science Foundation, United Distributors  
 First Position: JDA Software Group
11. Mike Hewitt, *Integer Programming Based Search*, 2009 (co-advised with M. Savelsbergh).  
 Research Sponsor: Saia Motor Freight  
 First Position: Assistant Professor, Rochester Institute of Technology
12. Ashlea Bennett, *Home Health Care Logistics Planning*, 2009.  
 Research Sponsor: National Science Foundation Graduate Fellowship, Richard P. Covert  
 FHIMSS Scholarship for Management Systems  
 First Position: Assistant Professor, University of Arkansas
13. Yang Zhang, *Advances in LTL Load Plan Design*, 2010 (co-advised with M. Savelsbergh).  
 Research Sponsor: Saia Motor Freight  
 First Position: Analyst, Goldman Sachs

*In-process*

14. Antonio Carbajal, 2007-present (co-advising with M. Savelsbergh).  
 Research Sponsor: Yellow-Roadway Corporation
15. Yu Zhang, 2008-present.  
 Research Sponsor: National Center for Food Protection and Defense
16. Kate Abercrombie, 2009-present (co-advising with M. Savelsbergh).  
 Research Sponsor: Saia Motor Freight
17. Xing Wang, 2009-present.  
 Research Sponsor: General Electric (internship)
18. Tae Su Cheong, 2010-present (co-advising with C.C. White, III).  
 Research Sponsor: Georgia Tech Foundation, Schneider Chair
19. Yu-shiu Lin, 2010-present.  
 Research Sponsor: FHWA, NSF NEES Project

## **B. OTHER TEACHING ACTIVITIES**

### **Professional Education Courses Taught**

1. Invited instructor, *Transportation/Distribution/Logistics Modeling*, The Logistics Institute, Georgia Institute of Technology, Feb 6, 2003. Topic: “Dynamic Vehicle Routing and Scheduling Systems.”
2. Invited instructor, *Logistics Short Course*, The Supply Chain and Logistics Institute, Georgia Institute of Technology, 2003, 2007, 2008, 2009. Topics: “Securing the Transportation Chain”; “Supply Chain Security”

3. Invited instructor, *Logistics Optimization*, The Logistics Institute, Georgia Institute of Technology, 2004, 2005, 2006. Topics: “Dynamic Vehicle Routing and Scheduling Systems”; “Truckload Transportation”; “Vehicle Routing and Scheduling”
4. Invited instructor, *Supply Chain and Logistics Optimization*, The Supply Chain and Logistics Institute, Georgia Institute of Technology, 2007, 2008. Topics: “Truckload Transportation”; “Vehicle Routing and Scheduling”
5. Invited instructor, *Coca-Cola Supply Chain Excellence Leadership Development Program*, Georgia Institute of Technology and Coca-Cola, November 1-12, 2010. Topic: “Demand Fulfillment—Transportation”

## VII. SERVICE

### A. PROFESSIONAL CONTRIBUTIONS

#### Organization and Chairmanship of Technical Conferences and Workshops

- Co-organizer, *ROUTE 2007: International Workshop on Vehicle Routing and Transportation*, Jekyll Island, Georgia, May 2007.
- Track Chair, Logistics and Fleet Management, *The 11<sup>th</sup> World Conference on Transport Research*, Berkeley, California, June 2007.

#### Professional Society Service

##### *Institute for Operations Research and Management Science (INFORMS)*

- Chair, Freight Transportation and Logistics Special Interest Group, *Transportation Science and Logistics Society*, 2010-2011.
- Chair, *Membership and Member Services Committee*, 2011.
- Vice Chair, Freight Transportation and Logistics Special Interest Group, *Transportation Science and Logistics Society*, 2008-2009.
- Member, Best Paper Award Committee, *Transportation Science and Logistics Society*, 2011.
- Three-year Member, Dissertation Award Committee, *Transportation Science and Logistics Society*, 2006-2008, chairperson 2008.
- Cluster Chair, *Transportation Science Section*, INFORMS 2003 Annual Meeting, Atlanta, October 2003.
- Member, *Membership and Member Services Committee*, 2006-present.
- Secretary and co-Founder, *Junior Faculty Interest Group Forum*, 2001-2002.
- Member, *Transportation Science and Logistics Society*, 2001-present.

##### *Transportation Research Board*

- Member, *ADB30 Transportation Network Modeling Committee*, 2003-2006.
- Friend, *AT060T Task Force on Trucking Industry Research*, 2006-present.
- Friend, *ADB30 Transportation Network Modeling Committee*, 2007-present.

#### Editorial Board Memberships

##### *Institute of Industrial Engineers*

- Associate Editor, *IIE Transactions: Focused Issue on Operations Engineering and Analysis*, Homeland Security Department, 2010-present.

### ***Institute of Electrical and Electronics Engineers***

- Associate Editor, *IEEE Transactions on Intelligent Transportation Systems*, 2003-2009.

### ***Flexible Services and Manufacturing Journal***

- Associate Editor, 2007-2009.

### ***Cooperative Transportation Dynamics***

- Editorial Board Member, 2002-present.

### ***Networks***

- Guest Editor, Special Issue: *Route 2007*, 2008-2009.

### ***Encyclopedia of Operations Research and Management Science, Wiley***

- Topical Editor, *Freight Transportation and Warehousing*, 2009-present.

### **Advisory Board Memberships**

#### ***National Center for Food Protection and Defense (U.S. DHS Center of Excellence)***

- Member, *Research Evaluation and Advisory Panel (REAP)*, 2010-.

### **Technical Journal Referee Service**

*Operations Research*

*Management Science*

*Transportation Science*

*Transportation Research: Part B*

*Transportation Research: Part E*

*Networks*

*International Symposium on Transportation and Traffic Theory*

*Operations Research Letters*

*Computers and Operations Research*

*Naval Research Logistics*

*Journal of Transportation Engineering*

*Production and Operations Management*

*IIE Transactions on Scheduling and Logistics*

*IEEE Transactions on Intelligent Transportation Systems*

*IEEE Transactions on Vehicular Technology*

*Computers and Industrial Engineering*

*Electronic Commerce Research Journal*

### **Conference Program Committee Service**

- Review Board Member, *2006 Manufacturing and Service Operations Management Conference*, 2006.
- International Program Committee Member, *First International Conference on Transportation Logistics*, Tsinghua University, Tokyo University, and the National University of Singapore, 2005.

### **Grant Agency Proposal Review Service**

*National Science Foundation*

*Canada Foundation for Innovation*

*Netherlands Organisation for Scientific Research*

*University of California Transportation Center (USDOT)*

**Other Professional Contributions**

***Council on Competitiveness***

- Invited Member, *Competitiveness and Security Advisory Committee*, 2005-2007.

***Eno Transportation Foundation***

- Invited Participant, *Logistics Education Forum*, co-sponsored with Federal Highway Administration and USDOT Secretary's Office, 2006.

***Georgia Department of Transportation (GDOT)***

- Statewide Advisory Committee Member, *GDOT Statewide Truck Lanes Needs Identification Study*, 2006.

**B. OTHER CONTRIBUTIONS**

**Consulting**

1. *Versatile Mobile Systems*, Lynwood, WA, 2002-2004.
2. *ESRI*, Redlands, CA, 2006-2007.
3. *Bex/EnergeticX/Zebigo*, Seattle, WA 2007.
4. *Kimberly-Clark Health Care*, 2009.

**VIII. HONORS AND AWARDS**

1. INFORMS Transportation Science Dissertation Prize Competition, First Prize, 2001.
2. Dwight David Eisenhower Fellowship for Graduate Study in Transportation, 1997-2000.
3. The Berkeley Fellowship for Graduate Study, 1995-97, 2000.
4. INFORMS Doctoral Student Colloquium, 1999.
5. University of California Transportation Center, Runner-up Student of the Year, 1997.
6. W. Mack Angas Prize, top CEOR departmental honor, Princeton University, 1993.
7. Phi Beta Kappa, 1993.
8. Sigma Xi, 1993.
9. John W. Tukey Statistics Award, Princeton University, 1992.