

Progress Performance Report for University Transportation Centers

U.S. Department of Transportation
Research and Innovative Technology Administration
Federal Grant No. DTRT12 G UTC04

Project Title: Transportation, Research, Innovation Development and Education Center (STRIDE)

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Research and Innovative Technology Administration
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Project Grant Period: 1/1/2012 - 1/31/2014

Reporting Period End Date: Dec. 31, 2012

Reporting Term, Quarterly: PPPR #2



Signature of Submitting Official: _____
Lily Elefteriadou, Ph.D.

Accomplishments

What are the major goals of the program?

The STRIDE Center is devoting its energies to three major areas that are deemed critical in Region 4: safety, livable communities and economic competitiveness. More specifically, the major goals of the center are:

- a) To develop, implement and maintain a comprehensive research program that addresses critical needs related to safety, livable communities and economic competitiveness
- b) To serve as the focal point for transportation research, education, and outreach in the region
- c) To strengthen the collaboration between the partner universities as well as between the consortium and federal, state, and local agencies
- d) To develop ties with other University Transportation Centers (UTCs) and USDOT's research clusters to create opportunities for collaborative activities across centers
- e) To disseminate research results to government, academia and private sectors through publication in peer-reviewed journals, conference papers and presentations at transportation-related industry events
- f) To establish additional communication mechanisms, including the use of social media, by which important research findings are made available to researchers and others with an interest in transportation matters
- g) To utilize research activities to promote transportation-related education as well as careers and employment opportunities
- h) To support and encourage the identification, development, and implementation of inventions and discoveries with the potential to address challenges in the core focus areas.

What was accomplished under these goals?

Accomplishments are listed below under each of the program's major goals:

- a) To develop, implement and maintain a comprehensive research program that addresses critical needs related to safety, livable communities and economic competitiveness
Accomplishments:
 - Subcontracts were initiated and completed for the 18 projects selected during the previous reporting period. These projects are currently underway and we have been collecting quarterly progress reports. The selected projects and their descriptions have been posted on the STRIDE website at <http://www.stride.ce.ufl.edu/current-projects> and are also listed under "Special Reporting Requirements" in this report. The selected projects span the three focus areas of STRIDE: safety, livable communities, and economic competitiveness; most of them are focused on research, and they include a technology transfer component to ensure that the results are widely disseminated. Six projects are focused on educational activities and the development of modules.
- b) To serve as the focal point for transportation research, education and outreach in the region
Accomplishments:
 - We have been collaborating with the other UTCs in the southeast to organize a regional conference for our region. The "UTC Conference for the Southeastern Region", will be held on April 4-5, 2013, at the Rosen Plaza Hotel in Orlando, Florida. The conference will engage academic institutions in the region as well as the private and public sector. The conference is co-sponsored by the four UTCs in the southeast region (STRIDE, Georgia

Institute of Technology, Mississippi State University, and the University of South Florida.) The conference will include presentations by faculty and students, a special session for state DOTs and student organizations such as ITE and WTS, and a session on workforce development efforts. A website has been created for the conference: <http://www.stride.ce.ufl.edu/utc-conference-for-the-southeast>.

- c) To strengthen the collaboration between the partner universities as well as between the consortium and federal, state, and local agencies
- Accomplishments:
- Dr. Elefteriadou reached out to the SASHTO (Southeastern Association of State Highway and Transportation Officials) organization and was invited to make a presentation at the SASHTO State DOT Chief Engineers' breakfast (Charleston, South Carolina, August 28, 2012.) She provided an overview of STRIDE, its goals and plans, and invited State DOTs to participate on the STRIDE external advisory board as well as on various STRIDE-sponsored events. The Chief Engineers expressed an interest in working with STRIDE to achieve mutually beneficial goals related to research, education, workforce development, and technology transfer.
 - To encourage collaboration among the STRIDE partner universities, the center's call for proposals had indicated a strong preference and additional points to those proposals that involved researchers from two or more partner universities. As a result, 15 of the 18 projects are collaborative efforts between researchers at multiple universities.
 - Also, as indicated above, a regional conference is being organized to bring together researchers, students, State DOT representatives, and transportation professionals across the region. Talks have begun with State DOTs across the region for participation in various activities, including the regional conference currently being planned.
- d) To develop ties with other University Transportation Centers (UTCs) and USDOT's research clusters to create opportunities for collaborative activities across centers.
- Accomplishments:
- Collaboration has been initiated with other UTCs in the region through the planning of a regional conference.
- e) To disseminate research results to government, academia and private sectors through publication in peer-reviewed journals, conference papers and presentations at transportation-related industry events
- Accomplishments:
- We offered a very successful webinar on "Improved Timeliness and Accessibility to Crash Data and Tools for Safety" in November 2012. Ninety-one transportation professionals from the academic, consulting and public sectors attended.
 - We are organizing a one-day workshop in conjunction with the UTC regional conference which will present results from two CMS (Tier-1, grant-funded UTC at UF) projects. The workshop is titled "Transportation Safety: From Research to Practice"
 - We are organizing a two-part workshop, titled "Managed Lanes Webinar and Computer Lab Workshop: UF TRC/ T² Webinar Workshop on Managed Lane Operations and Simulation using CORSIM."
 - We are continuing to create workshops, webinars and conferences from completed CMS-funded projects.
- f) To establish additional mechanisms, including the use of social media, by which important research findings are made available to researchers and others with an interest in transportation matters

Accomplishments:

- Development of STRIDE center website (<http://stride.ce.ufl.edu>), Facebook page and Twitter page. These are used continuously to announce events, webinars, conference, completed projects, and other important information specific to UTC activities.

- g) To utilize research project activities to promote transportation-related careers and employment opportunities for education and workforce development

Accomplishments:

- MSU and UF hosted several Family Engineering Nights (FEN) at local elementary schools in the last year and UAB and FIU will be hosting additional events in the coming months.
- NCSU and UF are collaborating with the North Carolina Department of Transportation (NCDOT) and the Women's Transportation Seminar (WTS) for the STRIDE funded "Engineering It's for Girls, Too" project, which includes a series of one-day workshops targeted at girls in high school. These events have started and will continue in the future.
- A Transportation Career Day is organized and will be held at UF and FIU to introduce high school students, their parents, and school counselors to transportation.
- NCSU, UF, and FIU is organizing and will be offering the LEGO® Robot Vehicle Lesson Plans for Secondary Education. The "Introduction to Transportation Engineering" curriculum, which was developed at UF, is being offered to students in grades 5-8. UF has worked with a Girl Scout troop and developed a partnership with a local science museum.
- As part of the STRIDE K-12 outreach efforts, faculty and staff have involved the WTS and ITE student chapters at UF. With direction from STRIDE, the student chapters spearheaded the following events: a) Engineering & Science Fair, where student chapters developed an urban planning model out of LEGOs to introduce students of all ages to the transportation field; b) participation in Engineering GatorTRAX Math Excellence initiative provides students in grades K - 12 with opportunities to learn mathematics with hands-on activities for free; c) the WTS Student Chapter partnered with Tau Beta Pi to host a spring and fall event where children built LEGO cars and learned how design affects speed on the university campus on a Saturday morning.
- STRIDE co-sponsored a WTS Transportation Symposium at the University of Florida where attendees learned about the importance of leadership and provided a social networking opportunity among established professionals and college students. A panel of three professionals in transportation-related careers discussed their leadership experiences; how they reached the distinguished level they are at now, their advice to college students, and other related topics;
- STRIDE is working with the WTS UF Student Chapter to reach out to students at the STRIDE-partner universities and create additional WTS student chapters in those institutions and in the southeast region. So far, the WTS UF chapter has reached out to students at FIU, NCSU, Georgia Institute of Technology, and University of South Florida. The UF chapter is currently in discussions with Marcia Ferranto, president of WTS International, to move forward with the creation of chapters

How have results been disseminated?

Since work under this center begun in January 2012, project research results disseminated are those under previous UTC-related efforts:

- a) Two workshops are being organized to present the results from previously completed research projects under the CMS UTC (as discussed above).
- b) Principal investigators of CMS projects are in the process of developing additional courses and workshops related to recently completed projects. It is expected that results from STRIDE projects will be disseminated in the same way.
- c) The LEGO Robot Lesson Plans, created from a project funded by the CMS and incorporated into the STRIDE workforce development activities, have been downloaded 30 times as of December 2012. Agencies that have downloaded these range from UTCs and other universities, to K-12 and after-school programs across the US and as far away as Alaska and California.

What do you plan to do during the next reporting period to accomplish the goals?

- Monitor the 18 ongoing projects via quarterly reports to ensure they are progressing on schedule, and products and results are disseminated as expected.
- Initiate a second call for proposals for research, education, tech transfer, and work force development projects.
- Complete the planning for the UTC regional conference for the southeast, which is scheduled to occur in April 3-4, 2013, as discussed earlier.
- Hold the first meeting of the External Advisory Board for STRIDE, in conjunction with the UTC regional conference for the southeast.
- Expand our internship program to attract undergraduate students nationwide to work at the STRIDE partner universities.
- Continue to engage in discussions with state DOTs in the region and nationally for potential collaborations.
- Continue to engage in discussion with WTS International to create student chapters in the southeast region.
- Complete and disseminate the next STRIDE electronic newsletter.
- Continue offering K-12 workforce development activities and expand offerings of the LEGO Robot Vehicle Lesson Plans across the region.
- Continue with seminar/webinar (webcast or recorded) offerings.
- Continue planning for technology transfer opportunities (including webinars and short courses) such as those from completed CMS research projects.
- Continue postings of events and products on website, Facebook, Twitter.

Products

List any products resulting from the program during the reporting period

- Website (<http://www.stride.ce.ufl.edu/>)
- Workforce development event offerings
 - Facebook Page - <https://www.facebook.com/southeasterntransportationcenter>
 - Twitter - https://twitter.com/STRIDE_UTC

- <http://www.transportationcareers.org/> - The website features the LEGO® Robot Vehicle Lesson Plans developed at UF. The site is a resource for teachers funded by the US Department of Transportation that builds on the original Career Cluster partnership.
- <http://www.wtsinternational.org/centralflorida/wts-uf-student-chapter/> - Many of the outreach activities for workforce development are also supported by the UF Student Chapter of Advancing Women in Transportation (WTS). The student chapter maintains a website with WTS International with announcements of upcoming events, descriptions of past activities and a photo gallery.
- Several education aids were developed for K-12 outreach. An Urban City was designed and built from LEGOs to use as an instructional tool at various events. A six foot long ramp was constructed for K-12 students to use when designing, building and racing cars they make with LEGO's. Worksheets for introducing speed, distance and acceleration were developed for GatorTRAX events. The LEGO Robot Vehicle Lesson Plans were restructured from a 5 week afterschool program to a 1-day course.

Participants and Other Collaborating Organizations

Individuals Who Have Worked on the Program

Dr. Lily Elefteriadou, STRIDE Center Director

Name	Lily Elefteriadou
Program/Project Role	STRIDE Director
Number of hours worked during the reporting period	Approximately 250 hours
Contribution to the Program/Project	Responsible for overall leadership and management of the STRIDE Consortium
Funding Support	STRIDE, CMS, FDOT, UF
Collaborated with individual in foreign country	n/a
Country(ies) of foreign collaborator	n/a
Traveled to foreign country	n/a
If traveled to foreign country(ies), duration of stay	n/a

Ms. Ines Aviles-Spadoni, STRIDE Center Coordinator

Name	Ines Aviles-Spadoni
Program/Project Role	STRIDE Coordinator
Number of hours worked during the reporting period	Approximately 800 hours
Contribution to the Program/Project	Manages and coordinates day-to-day activities of the center and serves as a member of the STRIDE internal steering committee. She supervises two STRIDE staff members (DOT Outreach Coordinator and Workforce Development Coordinator). Ms. Aviles-Spadoni serves as the research coordinator, web master, and managing editor of publications (newsletter, annual report, final reports.), as well as the WTS student chapter adviser.
Funding Support	STRIDE, CMS
Collaborated with individual in foreign country	n/a
Country(ies) of foreign collaborator	n/a
Traveled to foreign country	n/a
If traveled to foreign country(ies), duration of stay	n/a

Mr. Richard Long, DOT Outreach Coordinator for STRIDE

Name	Richard Long
Program/Project Role	STRIDE Outreach Coordinator (State DOTs)
Number of hours worked during the reporting period	Approximately 150 hours
Contribution to the Program/Project	Coordinates the STRIDE Center's activities with State DOTs in the region and nationally.
Funding Support	STRIDE
Collaborated with individual in foreign country	n/a
Country(ies) of foreign collaborator	n/a
Traveled to foreign country	n/a
If traveled to foreign country(ies), duration of stay	n/a

Leslie Washburn, STRIDE Workforce Development Coordinator

Name	Leslie Washburn
Program/Project Role	STRIDE Workforce Development Coordinator
Number of hours worked during the reporting period	Approximately 500 hours
Contribution to the Program/Project	Coordinates the STRIDE Center's K-12 workforce development initiatives
Funding Support	STRIDE
Collaborated with individual in foreign country	n/a
Country(ies) of foreign collaborator	n/a
Traveled to foreign country	n/a
If traveled to foreign country(ies), duration of stay	n/a

STRIDE Institutional Representatives. These serve as liaisons between STRIDE and their universities to coordinate collaborative efforts related to research, education, technology transfer, and workforce development. These representatives have been meeting with the STRIDE director at least twice per month, participating in the consortium's teleconferences to discuss agenda items related to the management and coordination of the center's activities and tasks. Below are the STRIDE Institutional Representatives:

Auburn University
 Al Giffin, Director, Auburn Transportation Research Center
 E-mail: giffra@auburn.edu

Name	Al Giffin
Program/Project Role	STRIDE Institutional Representative/Auburn
Number of hours worked during the reporting period	Approximately 15 hours
Contribution to the Program/Project	Serves as a liaison between STRIDE and his university
Funding Support	STRIDE
Collaborated with individual in foreign country	n/a
Country(ies) of foreign collaborator	n/a
Traveled to foreign country	n/a
If traveled to foreign country(ies), duration of stay	n/a

Florida International University
 Mohammed Hadi, Ph.D., Associate Professor
 E-mail: hadim@fiu.edu

Name	Mohammed Hadi, Ph.D.
Program/Project Role	STRIDE Institutional Representative/Florida International University
Number of hours worked during the reporting period	Approximately 15 hours
Contribution to the Program/Project	Serves as a liaison between STRIDE and his university
Funding Support	STRIDE
Collaborated with individual in foreign country	n/a
Country(ies) of foreign collaborator	n/a
Traveled to foreign country	n/a
If traveled to foreign country(ies), duration of stay	n/a

Georgia Institute of Technology
 Randall Guensler, Ph.D., Professor
 Email: randall.guensler@ce.gatech.edu

Name	Michael Hunter, Ph.D.
Program/Project Role	STRIDE Institutional Representative, Georgia Institute of Technology
Number of hours worked during the reporting period	Approximately 15 hours
Contribution to the Program/Project	Serves as a liaison between STRIDE and his university
Funding Support	STRIDE
Collaborated with individual in foreign country	n/a
Country(ies) of foreign collaborator	n/a
Traveled to foreign country	n/a
If traveled to foreign country(ies), duration of stay	n/a

Mississippi State University
 Burak Eksioglu, Ph.D., Associate Professor
 E-mail: beksioglu@ise.msstate.edu

Name	Burak Eksioglu, Ph.D.
Program/Project Role	STRIDE Institutional Representative/Mississippi State University
Number of hours worked during the reporting period	Approximately 15 hours
Contribution to the Program/Project	Serves as a liaison between STRIDE and his university
Funding Support	STRIDE
Collaborated with individual in foreign country	n/a
Country(ies) of foreign collaborator	n/a
Traveled to foreign country	n/a
If traveled to foreign country(ies), duration of stay	n/a

North Carolina State University
 Downey Brill, Ph.D., Professor
 E-mail: brill@ncsu.edu

Name	Downey Brill, Ph.D.
Program/Project Role	STRIDE Institutional Representative/North Carolina State University
Number of hours worked during the reporting period	Approximately 15 hours
Contribution to the Program/Project	Serves as a liaison between STRIDE and his university
Funding Support	STRIDE
Collaborated with individual in foreign country	n/a
Country(ies) of foreign collaborator	n/a
Traveled to foreign country	n/a
If traveled to foreign country(ies), duration of stay	n/a

University of Alabama at Birmingham
 Virginia Sisiopiku, Ph.D., Associate Professor
 E-mail: vsisiopi@uab.edu

Name	Virginia Sisiopiku, Ph.D.
Program/Project Role	STRIDE Institutional Representative/University of Alabama at Birmingham
Number of hours worked during the reporting period	Approximately 15 hours
Contribution to the Program/Project	Serves as a liaison between STRIDE and her university
Funding Support	STRIDE
Collaborated with individual in foreign country	n/a
Country(ies) of foreign collaborator	n/a
Traveled to foreign country	n/a
If traveled to foreign country(ies), duration of stay	n/a

University of Florida
 Ruth Steiner, Ph.D., Associate Professor
 E-mail: rsteiner@dcp.ufl.edu

Name	Ruth Steiner, Ph.D.
Program/Project Role	STRIDE Institutional Representative/University of Florida
Number of hours worked during the reporting period	Approximately 15 hours
Contribution to the Program/Project	Serves as a liaison between STRIDE and her university
Funding Support	STRIDE
Collaborated with individual in foreign country	n/a
Country(ies) of foreign collaborator	n/a
Traveled to foreign country	n/a
If traveled to foreign country(ies), duration of stay	n/a

University of North Carolina
 Daniel Rodriguez, Ph.D., Associate Professor
 E-mail: danrod@email.unc.edu

Name	Daniel Rodriguez, Ph.D.
Program/Project Role	STRIDE Institutional Representative/University of North Carolina at Chapel Hill
Number of hours worked during the reporting period	Approximately 15 hours
Contribution to the Program/Project	Serves as a liaison between STRIDE and his university
Funding Support	STRIDE
Collaborated with individual in foreign country	n/a
Country(ies) of foreign collaborator	n/a
Traveled to foreign country	n/a
If traveled to foreign country(ies), duration of stay	n/a

What other organizations have been involved as partners?

- Florida Department of Transportation (FDOT)
- Alabama Department of Transportation (ALDOT)
- Georgia Department of Transportation (GDOT)
- Mississippi Department of Transportation (MDOT)
- North Carolina Department of Transportation (NCDOT)
- Federal Highway Administration
- Federal Transit Administration
- Woman’s Transportation Seminar (WTS) International
- Stantec
- Cambridge Systematics

Have other collaborators or contacts been involved?

For K-12 activities:

- UF - Lawton Chiles Elementary School, Williams Elementary, PK Yonge Research School
- MSU – St. Martins Middle School, Arthur Watson Elementary School
- Cade Museum
- Girl Scout Troop 1520 in Gainesville, Fla

Other UTCs in the region

- Georgia Institute of Technology
- Mississippi State University
- University of South Florida

Impact

What is the impact of the program? How has it contributed to transportation education, research, and technology transfer?

- *What is the impact on the development of the principal discipline(s) of the program?*

Increased focus on the safety, livability, and economic competitiveness for the southeast region of the US. Increased collaboration between the STRIDE partner universities. Increased collaboration with the state DOTs in the region. Increased emphasis on educational materials related to these topics, and sharing of educational and workforce development resources.

- *What is the impact on other disciplines?*

Interdisciplinary collaboration in research projects, education, workforce development and technology transfer. Collaboration between transportation researchers at the partner universities is likely to increase broader collaboration between the universities involved.

- *What is the impact on transportation workforce development?*

The LEGO® Robot Vehicle Lesson Plans have been downloaded from our website 30 times by individuals and organizations across the US. We expect that interest in these products will increase with the recent feature page at <http://www.transportationcareers.org/>. Work with Girls Scouts, the WTS Student Chapter and workshops introducing high school girls to careers in engineering continues to improve the skills and attitudes of underrepresented groups.

- *What is the impact on physical, institutional, and information resources at the university or other partner institutions?*

Increased emphasis and awareness of the importance and breadth of transportation at all partner institutions, as well as other collaborating institutions in the region and nationwide. Availability of various products and reports on our website and distribution through social media will enhance the flow of information.

- *What is the impact on technology transfer?*

A workshop on “Transportation Safety: From Research to Practice” will be held on April 3, 2013 in Orlando Florida, which will disseminate results of a CMS-funded project. A website has been created for registration to this event (<http://www.t2events.ce.ufl.edu/assnfe/ev.asp?ID=2309>). Likewise, a “Managed Lanes Webinar and Computer Lab Workshop: UF TRC/ T² Webinar Workshop on Managed Lane Operations and Simulation using CORSIM” will be held in March 2013 and will also report on results of a CMS-funded project (registration website: <http://www.t2events.ce.ufl.edu/assnfe/ev.asp?ID=2317>). Additionally, two to three webinars are planned for this year.

- *What is the impact on society beyond science and technology?*

Increased collaboration between academic institutions; development and implementation of path from research to technology transfer; development and implementation of workforce development activities

Changes/Problems

- *Changes in approach and reasons for change* - Nothing to report.
- *Actual or anticipated problems or delays and action or plans to resolve them* –Nothing to report.
- *Changes that have a significant impact on expenditures* – Nothing to report.
- *Significant changes in use or care of human subjects, vertebrate animals and/or biohazards* – Nothing to report.
- *Change of primary performance site location from that originally proposed* – Nothing to report.

Special Reporting Requirements

(Award-specific reporting requirements)

- Website - the STRIDE website has been live since July of 2012. Directory of Key Center Personnel – can be found at <http://www.stride.ce.ufl.edu/internal-steering-committee>
- Federal Financial Report - this report is prepared by the grants specialist at UF responsible for managing all STRIDE related financial duties
- Federal Financial Accountability and Transparency Act (FFATA) Sub-award and Executive Compensation Reporting Requirement - This report is prepared by the college of engineering contracts office

List of Selected Projects and PIs (STRIDE 2012)

The following projects were selected for funding. The asterisk next to the project title indicates collaborative effort between two or more partner universities.

A Regional Land use Transportation Decision Support Tool for Mississippi (2012-003S)*

Brian Morton, Ph.D.

University of North Carolina – Chapel Hill

\$120,380

Engineering: It's for Girls Too! (2012-009S)*

James Martin, PE

North Carolina State University

\$38,895

Emissions Modeling and Integration into Traffic Micro-simulation (2012-014S)*

Scott Washburn, Ph.D., PE

University of Florida

\$251,764

Livability Considerations for Simulation-Based Performance Assessment of Non-motorized Transportation Modes

Bastian Schroeder, Ph.D. (2012-016S)*
North Carolina State University
\$315,148

Quantifying the Costs of School Transportation (2012-022S)*

Noreen McDonald, Ph.D.
University of North Carolina – Chapel Hill
\$250,313

Towards a Holistic Understanding of Quality of Life: An Analysis of Activity-Travel Patterns on Non-Mid-week Days (2012-024S)*

Siva Srinivasan, Ph.D.
University of Florida
\$77,790

Development of Pedestrian and Bicycle Transportation Course Modules (2012-028S)*

Daniel Rodriguez, Ph.D.
University of North Carolina – Chapel Hill
\$25,750

Developing a New Course for Public Transportation Education (2012-029S)*

Kari Edison Watkins, Ph.D.
Georgia Institute of Technology
\$70,000

Consequence Based Route Selection for Hazardous Material Cargo: GIS-Based Time Progression of Environmental Impact Radius of Accidental Spills (2012-036S)*

Berrin Tansel, Ph.D.
Florida International University
\$70,000

Investigation of ATDM Strategies to Reduce the Probability of Breakdown (2012-042S)*

Mohammed Hadi, Ph.D.
Florida International University
\$190,792

Development of Graduate Level Course on Sustainable Asphalt Pavements (2012-049S)*

James R. Willis, Ph.D.
Auburn University
\$47,837

Development of Educational and Professional Training Modules on Green/Sustainability Design and Rating Systems for Neighborhood Development and Transportation (2012-051S)*

Robert W. Peters, Ph.D.
University of Alabama - Birmingham
\$45,809

Automated Sidewalk Quality and Safety Assessment System (2012-067S)*

Randall Guensler, Ph.D.
Georgia Institute of Technology
\$196,667

Signalized Intersection Simulation Program for Education (2012-076S)

Scott Washburn, Ph.D., PE
University of Florida
\$34,212

Analyzing the impact of Carbon Regulatory Mechanisms on Supply Chain Management (2012-078S)*

Sandra D. Eksioglu, Ph.D.
Mississippi State University
\$128,629

Engaging Engineering Students with Transportation Safety: an Educational Module (2012-085S)

Lesley Strawderman, Ph.D.
Mississippi State University
\$2,610

Comparative Analysis of Dynamic Pricing Strategies for Managed Lanes (2012-089S)*

Jorge Laval, Ph.D.
Georgia Tech
\$204,526

A Naturalistic Driving Study across the Lifespan (2012-095S)*

Despina Stavrinos
University of Alabama - Birmingham
\$125,071