

Characteristics and factors influencing bicycling at an urban university: Results of a campus survey

John Steward, MPH and J. Michael Bryan, M.P.H., School of Public Health, Georgia State University, Atlanta, GA

Presenter Disclosures

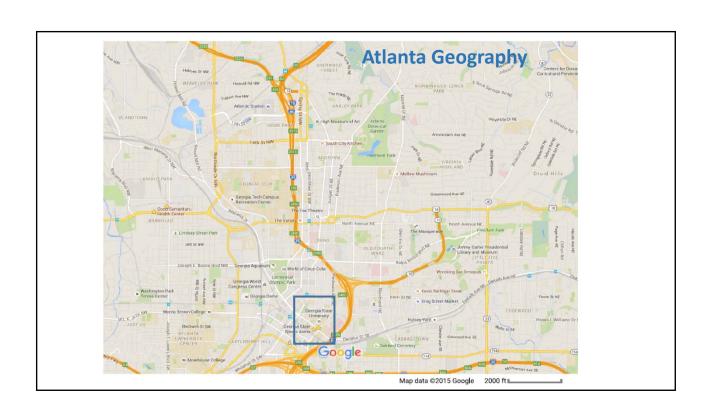
John A. Steward

The following personal financial relationships with commercial interests relevant to this presentation existed during the past 12 months:

"No relationships to disclose"

Georgia State University

- Located in Atlanta, Georgia
- Approximately 32,000 students attend downtown campus
- Approximately 4,400 employees
- University has transitioned rapidly from mainly a commuter college to a large, research university over the past 15 years
- Vision: global leader in innovation in education and urban research
- University has begun to embrace sustainability in its design and operations



Atlanta *Does Not* Compare Favorably to Major U.S. Cities for Bicycling

	Bicycle to Work: Percent of Commute Trips
Major U.S. Cities	1.0
Atlanta- Marietta-Sandy Springs MSA	0.17
City of Atlanta	0.8

Source: Atlanta Regional Commission. 2014 Transportation Fact Book

Milestones toward Improving Bicycling at Georgia State

- Received EPA P3 grant for student-led investigation of bicycling for transportation (2009)
- Received charter for a student organization "Panther Bikes" (2010)
- Received technical assistance from Atlanta Regional Commission and formed campus bike planning committee (2014)
- Conducted university-wide bicycling survey (Fall 2014)
- Complete bicycling plan (planned, end of 2015)

Bicycling for Transportation- Survey Overview

- Administered in October 2014
- 40 questions total
- Asked about modes of transportation, lifetime bicycling experience, and bicycling to campus during first 6 weeks of Fall 2014 semester
- Perceptions of bicycling on campus and in community
- How to create better bicycling opportunities at Georgia State
- Status with University (student, employee, or both)
- Health and physical activity indicators
- Demographics

Research Questions

- How does the health status of bicycle riders and non-riders differ?
- What portion of the study population live within a reasonable bicycle commuting distance?
- What factors are reported to present in current riders environment?
- What factors are perceived to be important to encouraging more bicycle riding to campus?
- How do riders/non-riders perceptions of bicycling differ?

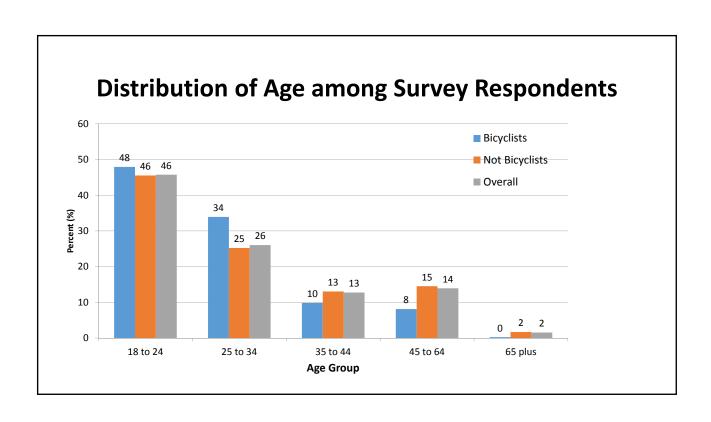
Survey Distribution and Response

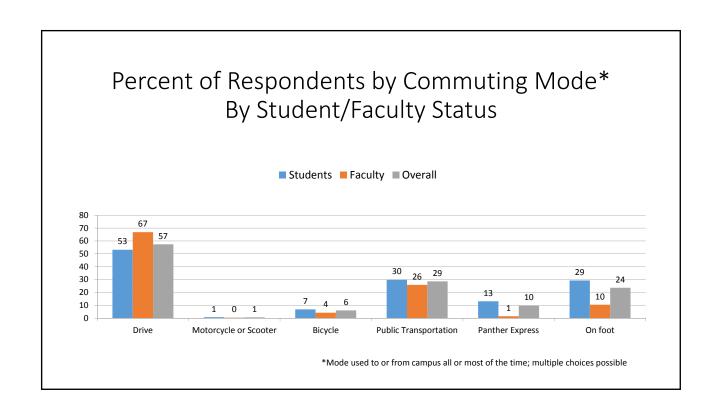
- Qualtrics® web-based survey
- Invitations sent to 41,016 email addresses at Georgia State
 - 31,642 students
 - 9374 non-students*
- Overall response rate of those invited to participate = 13.4% Participation rate of those who began survey= 82%

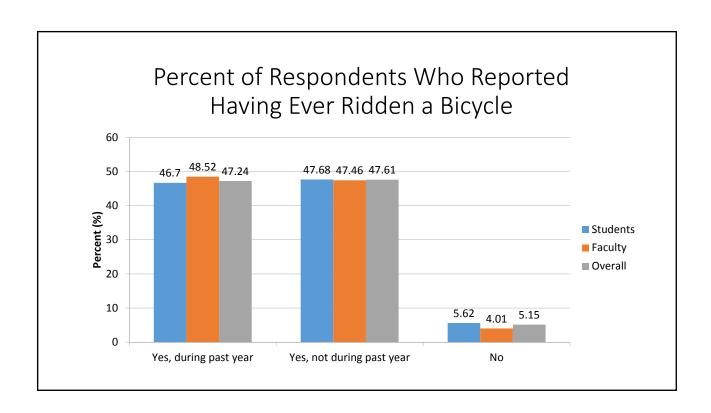
^{*}Non-students included faculty, staff, and contractors. Duplicates were eliminated prior to distribution.

Respondents' Characteristics

	Respondents (%)	Georgia State (%)
Gender:		
Male	34	41
Female	66	59
Race:		
White	57	39
Black/African-American	34	38
Asian	13	13
American Indian or Alaska Native	3	0.2
Native Hawaiian or Pacific Islander	1	0.1
Ethnicity:		
Hispanic or Latino	9	7

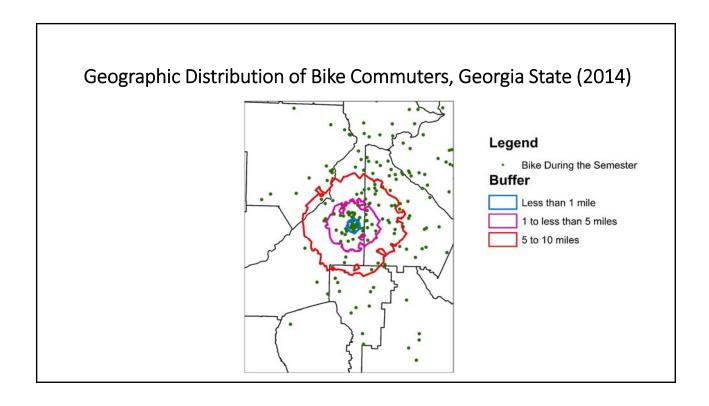






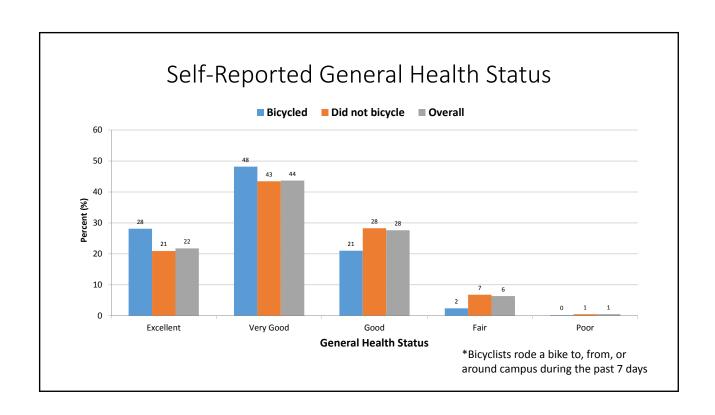
Persons Who Reported Bicycling to Campus At least One Time during Fall 2014 Semester

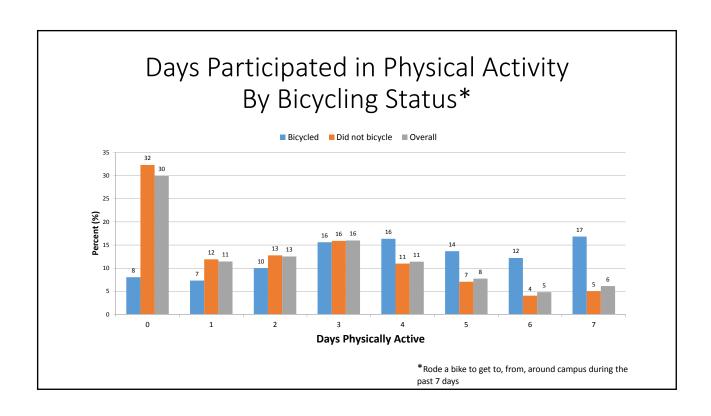
- N= 546
- 60% male; 80% White, 15% Black; 12% Hispanic
- Rode for transportation an average of 3 days in the past 7 days
- Averaged 60 minutes of bicycling on days ridden to campus
- 77% reported general health very good or excellent; 3% fair or poor



Self-Reported Health Status



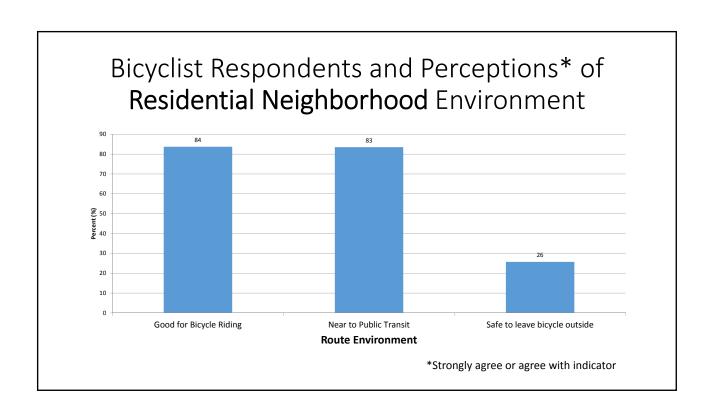


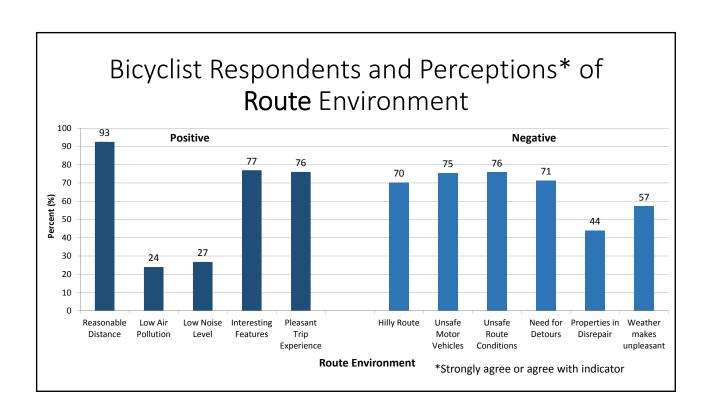


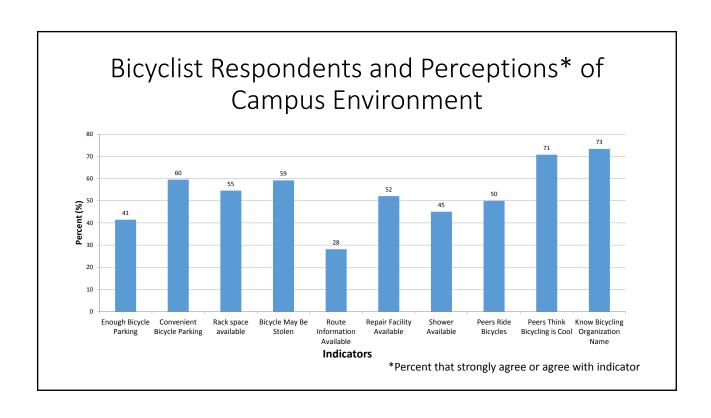
Environmental Factors

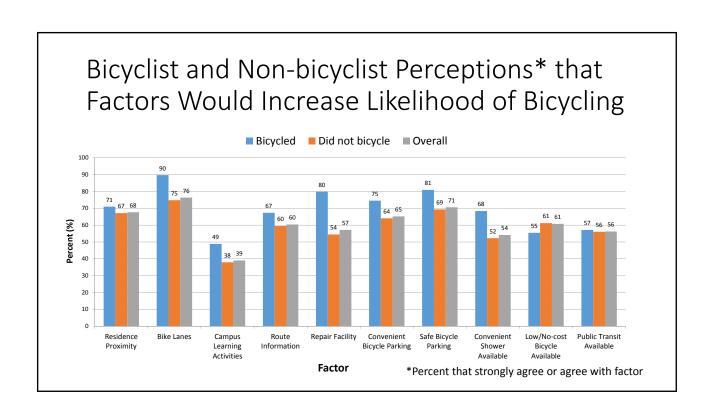


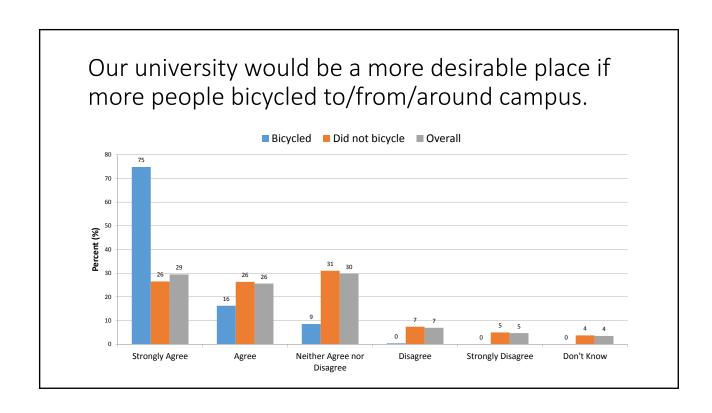
Photo credit: Atlanta Bicycle Coalition











Conclusion

- We found that like other university communities, bicycling is an important share of the commuting to campus.
- Persons who bicycle to campus are significantly more likely to meet physical activity recommendations than non-bicyclists.
- Bicyclists face unfavorable environment and perceived threats to safety during their commute.
- Both bicyclists and non-bicyclists identify ways to make bicycle commuting more likely.
- People believe that bicycling may contribute to improved environmental quality at a college campus, regardless of current commute mode.

Mayor Kasim Reed on the future of Atlanta

"...make Atlanta the most bikeable, walkable, livable city in the Southeast."



Source: Christopher Martin, beltline.org.

For additional information, contact us!

• John A. Steward, MPH (PI)

Academic Professional School of Public Health Georgia State University 404-413-1137

jsteward@gsu.edu

Michael Bryan, M.P.H.
 Doctoral Candidate
 School of Public Health
 Georgia State University
 jbryan8@student.gsu.edu



Photo credit: gsubikes.com