

---

EDUCATION	<b>Georgia Institute of Technology</b> PhD student <i>major field: environmental planning minor field: environmental health</i>	Atlanta, GA Expected summer 2012
	<b>Georgia Institute of Technology</b> Master of City and Regional Planning <i>environmental planning</i>	Atlanta, GA Aug 2008
	<b>Emory University</b> Master of Public Health <i>global environmental health</i>	Atlanta, GA Aug 2008
	<b>University of Michigan</b> Bachelor of Science in Engineering <i>chemical engineering</i>	Ann Arbor, MI Apr 2001
RESEARCH EXPERIENCE	<b>Georgia Institute of Technology, City and Regional Planning Department</b> <i>Graduate Research Assistant</i>	Atlanta, GA Aug 2008 – present
	<ul style="list-style-type: none"><li>Modeled land cover, population, and urban-rural land use classification for several US metropolitan statistical areas. This data served as an input for a Weather Research &amp; Forecasting (WRF) regional meteorology model as part of a three-year study of land use effects on climate and health with the CDC.</li><li>Compiled sprawl index, area, population, land use change (impervious surface and forest loss) and extreme heat event data from the past 50 years for major US cities as part of a study examining the relationship of urban land use and climate change (<i>Stone B, Hess JJ, Frumkin H 2010. Urban Form and Extreme Heat Events: Are Sprawling Cities More Vulnerable to Climate Change Than Compact Cities? Environmental Health Perspectives 118:1425-1428.</i>)</li><li>Provided support for proposals to investigate the relationship between land use-related climate and health outcomes associated with extreme heat events and amplified ground level ozone.</li></ul>	
	<b>Emory University, Rollins School of Public Health</b> <i>Graduate Research Assistant</i>	Atlanta, GA Jun 2009 – Aug 2009
	<ul style="list-style-type: none"><li>Assisted with spatial and demographic analyses of Chinese population data for use with regional air quality modeling. The results of this work estimated air pollution exposures for residents in China's Yangtze River Delta (<i>Zhou Y, Fu JS, Zhuang G, Levy JI 2010. Risk-Based Prioritization among Air Pollution Control Strategies in the Yangtze River Delta, China. Environmental Health Perspectives 118:1204-1210.</i>)</li></ul>	
	<b>Emory University, Emory Prevention Research Center</b> <i>Research Assistant</i>	Atlanta, GA Jan 2008 – Aug 2008
<ul style="list-style-type: none"><li>Assisted in the development of the survey instrument for the Study of Employee Quality of Life (SEQoL), one of the first longitudinal studies investigating the influence of built environment of employee quality of life.</li><li>Collected and calculated measures of the built environment (transit access, land use mix, sidewalk distance, etc.) near study participants' homes and two employment locations.</li><li>Conducted analysis and composed a manuscript comparing walkability composite measures from SEQoL and previously published research to develop more parsimonious built environment measurements related to walking (in review).</li><li>Project funded by CDC and Emory Prevention Research Center.</li></ul>		
	<b>Universidad de los Andes, Facultad de Medicina</b> <i>Visiting Researcher</i>	Bogotá, Colombia Jul 2007 – Sep 2007
	<ul style="list-style-type: none"><li>Conducted research considering the relationship between Bogotá parks and the physical activity and quality of life of residents.</li><li>Developed research methodology for assessing the relationship between objective measures and perceptions of residents and policy makers using survey, focus group, and photo data.</li></ul>	

**RESEARCH  
EXPERIENCE**  
(cont.)

**Emory University, Rollins School of Public Health**

Atlanta, GA

*Graduate Research Assistant*

Oct 2006 – Feb 2007

- Coordinated the Atlanta winter sampling for the Investigation of Sources and Composition of Particulate Exposures (SCOPE) Study.
- Conducted microenvironmental air sampling including setup and operation of monitoring equipment and handling of collection media.

**Georgia Institute of Technology**

Atlanta, GA

**Center for Quality Growth and Regional Development**

*Graduate Research Assistant*

May 2006 – Aug 2006

- Performed technical work for a demographic analysis using linear regression for populations in a 10-county area of coastal Georgia.
- Developed the air quality and transportation section of a comprehensive health impact assessment to examine the proposed Atlanta Beltline project.
- Participated in a two-day Healthy Communities Goals Workshop for the Centers for Disease Control and Prevention.

**Georgia Institute of Technology**

Atlanta, GA

**Center for Geographic Information System Technology**

*Graduate Research Assistant*

Aug 2005 – May 2006

- Developed an automated algorithm for interpreting raster images from scanned and hardcopy maps into new shapefiles.
- Managed the creation of a parcel database for a Georgia county using survey data from various sources.

**University of Michigan, School of Public Health**

Ann Arbor, MI

*Research Assistant*

Jan 2001 – Apr 2001

- Assisted with data collection, participant recruitment and follow-up in a study investigating the colonization of Haemophilus influenzae in children attending day care facilities in Southeast Michigan during the 2000/2001 school year. (*Barbosa-Cesnik, C., Farjo, R. S., Patel, M., Gilsdorf, J., McCoy, S. I., Pettigrew, M. M., et al. 2006. Predictors for Haemophilus influenzae Colonization, Antibiotic Resistance and for Sharing an Identical Isolate Among Children Attending 16 Licensed Day-Care Centers in Michigan. The Pediatric Infectious Disease Journal, 25(3), 219-223.*)
- Obtained parental permission and answered parents' questions as part of data and sample collection at daycare facilities on a biweekly basis

**TEACHING  
EXPERIENCE**

**Georgia State University**

Atlanta, GA

*Co-Instructor* - The Built Environment and Health

Spring 2011

- Developed a curriculum and syllabus during the first offering of this graduate-level course in Georgia State's Institute of Public Health.
- Developed and delivered lectures related to the fields of planning and public health - their history, methods, and intersections.
- Designed, graded and provided feedback for assignments, including GIS-related work.

**Georgia Institute of Technology**

Atlanta, GA

*Instructor of Record* - Public Health and The Built Environment

Fall 2010

- Served as one of two instructors of a joint course for graduate students from Emory's School of Public Health and Georgia Tech's School of City & Regional Planning.
- Developed and delivered lectures related to the fields of planning and public health - their history, methods, and intersections.
- Designed, graded and provided feedback for assignments, including GIS-related work.

**TEACHING  
EXPERIENCE**  
(cont.)

**Georgia Institute of Technology**

Atlanta, GA

*Instructor of Record* - Urban Environmental Planning

Spring 2010, Spring 2011

- Delivered lectures related to ecosystem function, environmental policy and design, and environmental planning.
- Designed, graded and provided feedback for assignments and exams, including work involving remotely-sensed data.
- Instructed graduate students of planning, architecture and environmental studies in a series of GIS-based lab assignments.

**Georgia Institute of Technology**

Atlanta, GA

*Teaching Assistant* - Land Use and Transportation Interactions

Fall 2009

- Instructed and graded graduate students of planning, civil engineering and transportation studies in a series of database-focused lab assignments.

**Georgia Institute of Technology**

Atlanta, GA

*Teaching Assistant* - Urban Environmental Planning

Spring 2009

- Instructed and graded graduate students of planning, architecture and environmental studies in a series of GIS and image processing lab assignments.

**WORK  
EXPERIENCE**

**Georgia Department of Transportation  
Office of Planning – Air Quality Branch**

Atlanta, GA

*Air Quality Specialist – Planner III*

Nov 2004 – Jul 2005

- Researched and evaluated best engineering/planning practices for estimating air quality benefits from transportation projects.
- Analyzed emission benefits calculations using EPA's MOBILE6 for non-attainment areas applying for Congestion Mitigation and Air Quality (CMAQ) funds.
- Worked with Metropolitan Planning Organizations and federal and state entities through the interagency consultation process to meet National Ambient Air Quality Standards and transportation conformity.
- Maintained a transportation demand model for Georgia municipality as part of requirements for the Long Range Transportation Plan.

**Akzo Nobel Coatings, Inc.**

Louisville, KY

*Environmental Engineer*

Aug 2002 – Aug 2004

- Evaluated air emissions at plants in the US and China for use with internal reporting and federal operating permits.
- Led international rollout and training for emissions modeling software.
- Managed revision and implementation of Spill Prevention Control and Countermeasures Plans for North American facilities.
- Prepared Toxic Release Inventory reports for US facilities in compliance with EPA regulations.
- Audited US facilities regarding occupational health, safety and environmental management and compliance with federal and local regulations concerning waste, stormwater, air pollution and spill control.

**HONORS**

Nominated for the Center for the Enhancement of Teaching and Learning (CETL) Outstanding Teaching Assistant Award (November 2010)

*Nominated for the graduate student serving as an instructor of record. It is the only institute-wide award for Teaching Assistants and symbolizes Georgia Tech's commitment to promoting exemplary teaching.*

2008 City and Regional Planning Program's Climate Change Assistantship

*A three-year program funded assistantship awarded to an incoming PhD student to Georgia Tech's City and Regional Planning Program*

2008 Thomas Mettelle Student Achievement Award

*Presented by the Georgia State Chapter of the Urban and Regional Information Systems Association for outstanding graduate work*

# JASON VARGO

404.906.9242  
vargo@gatech.edu

1715 Cecile Ave. SE  
Atlanta, GA 30316

---

4

## HONORS (cont.)

Tuition Scholarship to the 2008 Built Environment Assessment Training Institute

2006 Fredrick K. Bell Memorial Fellowship  
*Awarded to the outstanding first-year Master's student in the Georgia Tech City & Regional Planning Program*

## PUBLICATIONS

Vargo, J. Stone, B. Glanz, K. Google Walkability: A New Tool for Local Planning and Public Health Research? *Journal of Physical Activity and Health* (in press)

## PRESENTATIONS

"Assessing the influence of urban form on climate change-induced health factors" at *The Association of Collegiate Schools of Planning Annual Conference [contributing author]* Oct 8, 2010

"Relationship of perceived and objective measures of parks with park use and health in Bogota, Colombia in Bogotá, Colombia" at *American Public Health Association Annual Meeting 2008 [poster]* Oct 27, 2008

"Relationship of Park Perceptions and Objective Measures with Physical Activity in Bogotá, Colombia" at *Active Living Research Conference 2008 [poster]* Apr 10, 2008

"Collecting Objective Measures of Parks with Network Analyst" at *GIS in Teaching and Research, Georgia Institute of Technology* Feb 15, 2008

## TECHNICAL SKILLS

Complete Microsoft Office suite, Macromedia suite and Adobe suite  
SAS statistics package, SUDAAN  
SPSS stats software  
iMovie video editing package  
Transportation Plus modeling with Cube  
ESRI and Leica Geosystems GIS (*including spatial analyst, image analysis, and network analyst*)  
EPA's BenMAP software (*completed training with Community Modeling and Analysis System at UNC-Chapel Hill, October 2009*)