

Dana M. Habeeb

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EDUCATION

Georgia Institute of Technology 2017
PhD, City and Regional Planning

Major: Environmental Planning | Urban Climatology; Minor: Urban Morphology

Dissertation: “*Exploring Urban Agriculture as a Climate Change Mitigation Strategy at the Neighborhood Scale*”

Georgia Institute of Technology 2008
Dual Masters Degree in Urban Design

Georgia Institute of Technology 2002
BS, Architecture

ACADEMIC POSITION

Assistant Professor in Environmental Health Informatics August, 2018 - Present
Indiana University
School of Informatics, Computing, and Engineering

Visiting Assistant Professor in Environmental Health Informatics 2017- 2018
Indiana University
School of Informatics, Computing, and Engineering

ACADEMIC RECOGNITION

United States Environmental Protection Agency 2018 Climate Change Indicator (Heat Waves) based on my published research (in review)

Association of Collegiate Schools of Planning Travel Scholarship Recipient

Sea level rise studio wins American Institute of Certified Planners *2014 Student Project Award*

Sea level rise studio wins the Georgia Planning Association *Outstanding Student Project Award*

College of Architecture NSF ADVANCE Women of Excellence Graduate Award

City and Regional Planning Service Award

Randall-Paulson Architects Writing Scholarship

PEDS Golden Shoe Award: Design team member for Atlanta new street plan

Charles R. Brown Urban Design Fellowship

PUBLICATIONS

Habeeb, D., Russell, A., Stone, B. Uncovering the Effect of Heat Waves on Urban Agriculture Cooling. *In Submission*

Vargo, J., Stone, B., Habeeb, D., Liu, P., Russell, A. (2016) The Social and Spatial Distribution of Temperature-related Health Impacts from Urban Heat Island Reduction Planning Strategies. *Environmental Science and Policy*, 66, 366-374

Habeeb, Dana, Vargo, Jason and Stone, Brian Jr. (2015) Rising heat wave trends in large US cities. *Natural Hazards* 76(3): 1651-1665. doi:10.1007/s11069-014-1563-z

Stone B Jr, Vargo J, Liu P, Habeeb D, DeLucia A, Trail M, Hu Y, Russell A (2014) Avoided Heat-Related Mortality through Climate Adaptation Strategies in Three US Cities. *PloS ONE* 9(6):

Vargo, Jason, Habeeb, Dana, and Stone, Brian Jr. (2013) The Importance of Land Cover Change Across Urban Rural Typologies for Climate Modeling. *Journal of Environmental Management*, 114, 243-252

Stone, Brian Jr., Vargo, Jason, and Habeeb, Dana (2012). Managing climate change in cities: Will climate action plans work? *Landscape and Urban Planning*, 107(3), 263-271

Habeeb, Dana (2010). A Cabbagetown History. Atlanta Chapter of the Congress for the New Urbanism, *Building Metropolitan Atlanta: Past, Present & Future*, 95-96. Atlanta

CONFERENCE PRESENTATIONS

“Investigating the Impact of Urban Form and Urban Agriculture on Local Climate” at Association of Collegiate Schools of Planning in Denver, CO. October 14, 2017 [lead author]

“Urban Agriculture and the Local Climate: Investigating the Potential of an Unexplored Urban Heat Island Mitigation Strategy” at Association of Collegiate Schools of Planning in Houston, TX. October 24, 2015 [lead author]

“Exploring Urban Agriculture as a Local Climate Change Mitigation Strategy at the Neighborhood Scale” at Association of Collegiate Schools of Planning in Philadelphia, PA. October 30, 2014 [lead author]

“Avoided heat-related mortality through climate adaptation strategies in Atlanta, Philadelphia, and Phoenix” at Associations of Collegiate Schools of Planning in Philadelphia, PA October 30, 2014 [contributing author]

“Managing climate change in cities: Will climate action plans work?” at the American Planning Association conference in Atlanta, Georgia. April 27, 2014 [lead author]

“Three feet high and rising: An examination of the likely effects and potential responses to sea level rise in coastal Georgia” at the Association of Collegiate Schools of Planning in Dublin, Ireland. July 19, 2013 [lead author].

“Exploring Urban Agriculture as a Local Climate Change Mitigation Strategy at the Neighborhood Scale” at the Association of Collegiate Schools of Planning in Dublin, Ireland. July 17, 2013 [lead author].

“Hot Cities: Are cities becoming more vulnerable to extreme heat?” at 53rd Annual Meeting of The Association of Collegiate Schools of Planning in Cincinnati, OH. November 1, 2012 [lead author].

“Hot Town, Unhealthy Summer in the City: Heat, Ozone, and Urban Sprawl” at Annual Meeting of the Association of American Geographers in New York City, NY. February 25, 2012 [contributing author].

“Assessing Heat Wave Vulnerability Of Us. Cities” at 52nd Annual Meeting of The Association of Collegiate Schools of Planning in Salt Lake City, UT. October 15, 2011 [lead author].

“Managing Climate Change In Cities: Will Climate Action Plans Work?” at 52nd Annual Meeting of The Association of Collegiate Schools of Planning in Salt Lake City, UT. October 15, 2011 [contributing author].

“Do Residents Of Sprawling U.S. Metropolitan Areas Experience Greater Heat- And Air Pollution-Related Mortality?” at Meeting of The International Society for Environmental Epidemiology in Barcelona, Spain. September 13, 2011 [contributing author].

“Assessing the influence of urban form on climate change- induced health factors” at 51st Annual Meeting of The Association of Collegiate Schools of Planning Annual Conference in Minneapolis, MN. October 8, 2010 [lead author].

RESEARCH

Georgia Tech: School of Civil and Environmental Engineering **2015-Present**

Contributing my urban agriculture research towards a National Science Foundation (NSF) Sustainable Research (SRN) grant titled SRN: Integrated Urban Infrastructure Solutions for Environmentally Sustainable, Healthy, and Livable Cities. Investigating the potential of urban agriculture to act as green infrastructure. Exploring the role that distributed infrastructure can play in making cities more resilient. Investigating how the built environment impacts a person’s wellbeing through the deployment of low cost environmental sensors and mobile phones.

Georgia Tech: School of City and Regional Planning **2009- 2017**

Conduct research centered around climate change, design and health. Focused on two CDC funded research projects that investigated the correlations between the built environment, climate change and human health effects. Investigated the impact of climate responsive design techniques on the urban climate. Constructed and analyzed databases for ozone, PM_{2.5}, extreme heat events, heat waves, land cover change, climate action plans, and plant hardiness zones. Designed, built, and maintained the web presence for the Urban Climate Lab –www.urbanclimatelab.gatech.edu ^[1]_[SEP]

TEACHING

Smart Cities: Building Healthy Sustainable Communities: I400/I590 **Spring 2018** **Indiana University**

Cross listed undergraduate/graduate course that analyzes how cities currently operate, investigates how smart technologies are being implemented in cities, and identifies opportunities to improve cities through the design of future systems and applications. The course explores how we can design cities in the future to leverage information and data in order to create smarter, more connected, and healthier communities.

Environmental Policy, Health, & Design: I400 **Spring 2018**
Indiana University

Undergraduate class integrating the disciplines of environmental informatics, environmental science, and urban policy to explore ways of leveraging information and communication technologies to design connected, healthy and sustainable communities with the goal of making cities and citizens more resilient to environmental challenges.

City Planning Studio: CP 6052 **Fall 2013**
Tracking the Effects of Sea Level in Georgia's Coastal Communities
Georgia Tech, Co-Instructor

Awards: American Institute of Certified Planners *2014 Student Project Award*
Georgia Planning Association *2013 Outstanding Student Project Award*
Florida Academy of Sciences *2013 Student Paper Award*

Co-instructed graduate level studio focused on sea level rise on the Georgia Coast. The studio quantified the overall impact of projected sea level rise on human and physical geographies along the Georgia Coast with a strong emphasis on social vulnerability

Urban Environmental Planning & Design: CP 6213 **Spring 2012, 2013, 2014, 2015**
Georgia Tech, Instructor of Record

Graduate level class on ecosystem function, environmental policy and design. Designed and led technical labs analyzing environmental impacts in cities using both GIS and remote sensing data, with strong focus on map design and aesthetics.

Urban Design Digital Media/Visualization for Planners: CP 8881 **Fall 2015**
Georgia Tech, Instructor of Record,

A graduate digital media class focused on representing ideas graphically and communicating them effectively using multiple software platforms.

Land Use and Transportation Interactions CP 6331 **Spring 2011**
Georgia Tech, Teaching Assistant

Instructed graduate students of planning, civil engineering and transportation studies in a series of database-focused lab assignments. Presented lab lectures on the Introduction to Statistical Methods, Microsoft Excel, Microsoft Access. Graded all laboratory assignments.

Planning Theory and History CP 6012 **Fall 2010, 2013**
Georgia Tech, Teaching Assistant

Graded exams on the history and the theory of city planning. Coordinated and planned a weekend fieldtrip to Charleston, SC, and Chattanooga, TN. Developed and coordinated the itinerary including a tour of the city, a series of lectures with senior planning officials including the Mayor, and a group dinner. Planned and designed a 1-day historic tour of Atlanta, GA. Created educational material to support the tour including a movie of historical locations, information packets, and maps.

Modern Architecture and the Modern City **Summer 2007**
Georgia Tech, Teaching Assistant

Teaching Assistant for the *Modern Architecture and the Modern City* summer study abroad program. Helped coordinate international lectures, tours, and schedules in the Netherlands and Finland. Designed, implemented, and managed class wiki for program coordination

Invited Lecturer/Design Juror
Georgia Tech

- Apr 26, 2016 Juror for the Mike Rice Award studio : *Sapelo Island Marine Institute*
- Apr 17, 2014 Intro to Urban and Regional Planning: *Climate Change & Sea Level Rise*
- Dec 02, 2014 Environmental Policy: *Environmental Justice & the Chattanooga Way*
- Dec 04, 2014 Environmental Policy: *Environmental Justice & the Chattanooga Way*
- Dec 05, 2013 Urban Design Studio Juror: *Sea Level Rise Design Strategies*
- Nov 08, 2013 Theory and History of Planning: *Atlanta Historic Tour*
- Oct 24, 2013 Theory and History of Planning: *For whom do we Plan? Model City Case Study*
- Oct 17, 2013 Theory and History of Planning: *Incrementalism and Bounded Rationality*
- Nov 20, 2012 Public Health and Built Environment: *Adaptation to Climate Change*
- Jan 27, 2012 Urban Design Studio: *Design Problems and Opportunities in Urban Agriculture*
- Nov 18, 2011 History and Urban Theory: *Tour of Historic Oakland Cemetery*
- Nov 30, 2010 Introduction to Planning: *Subdivisions of American Neighborhoods*
- Aug 26, 2010 History and Urban Theory: *Theories of Urbanization and Early Planning*
- Nov 20, 2009 History and Urban Theory: *Atlanta Historic Tour*

ACADEMIC SERVICE

- Fall 2015 – Coordinated an Interdisciplinary Vertical Agriculture Design workshop hosted with Georgia Tech, City of Atlanta, Perkins + Will, and Blue Planet.
- 2012-2017 College of Architecture NSF Advance program member
- 2010-2014 SCaRP Ph.D. student representative at faculty meetings
- 2010-2013 SCaRP Ph.D. Social Chair
- 2007-2008 College of Architecture Urban Design Faculty Search Committee: Student Representative

WORK EXPERIENCE

Georgia Conservancy **05/2012**
Consultant/Environmental Planner, Atlanta, GA

Co-authored a report examining the impact of sea level rise on the Georgia coast. The report focused on social vulnerability, coastal hazards, and the demographics of the Georgia Coast.

CRB Realty **2008-2009**
City Planner/Urban Designer, Atlanta, GA

Developed a high-level economic analysis plan for Houston County, Georgia. Worked with state, county, and city officials as well as with community leaders to develop a long-term county vision encompassing a green energy plan, the design of a countywide nature corridor, and a plan to develop the existing aerospace industry into a public-private enterprise.

CUH2A Inc. **2002-2008**
Lab Planner, Intern Architect, Atlanta, GA

Lab Planner in the world's largest science and technology (S+T) design firm. Specialized in infectious disease laboratories and insectaries and also worked on higher educational laboratories for top tier universities. Part of a team of two responsible for the programming and schematic design phase of over 100,000 sq. ft. of high containment laboratory space for a CDC project worth >\$300 million. One of six individuals who spearheaded the firm's transition to Graphisoft's Building Information Management (BIM) software by leading the company's first BIM project. Coordinated back-office work within project teams to generate, organize, maintain and manage project schedules on projects totaling > \$300 million in the role of construction administrator.

PUBLIC SERVICE

Cabbagetown Initiative Community Development Corporation (CICDC) 2008-2013
Elected Board Member, Atlanta, GA

Active board member of a community development corporation responsible for raising and distributing money for neighborhood maintenance and revitalization. Responsible for coordinating projects with district representatives, the city of Atlanta, business owners and residents which include a community garden, neighborhood composting, and land acquisition. Founded and led the design, construction, and on-going community development of the Cabbagetown Community Garden. Worked with City Council and Park Pride Inc. to pass city legislation to allow for the creation of the first community garden constructed on public land outside of a park. Wrote, received, and administered grants totaling over \$5000 from Park Pride Inc. and Home Depot for the construction and maintenance of the Cabbagetown Community Garden. Committee member who organizes and runs Cabbagetown's neighborhood festival: Chomp and Stomp. Over 20,000 people attend the festival, which raises the primary operating funds for CICDC which contributes to park maintenance, green space creation, and community services.

Cabbagetown Neighborhood Association 2008-2010
Traffic Committee Chair, Atlanta, GA

Responsible for coordinating traffic/street plans and designs with district representatives, the city of Atlanta, business owners and residents.