Sara M. Laudeman
Atlanta, GA
Mobile: 919-698-2160
[Portfolio Link](#)
sara@laudeman.com | slaudeman@gatech.edu

Education:

Georgia Institute of Technology, Atlanta, Georgia

Master of Architecture – May 1, 2020
- Member of the American Institute of Architecture Students
- Graduate Ambassador for School of Architecture
- Member of the Tau Sigma Delta Architecture Honors Society
- Employed as Graduate Research Assistant

University of North Carolina at Charlotte, Charlotte, North Carolina
- Member of the University Honors Program, Student Ambassador
- Member of the Sigma Alpha Pi National Leadership Society
- Member of the American Institute of Architecture Students
- **Early Entry Master's Program in Architecture and Mathematics**

Bachelor of Arts in Architecture – May 10, 2018
- Member of the Arts and Architecture Honors Program
- Member of the Tau Sigma Delta Architecture Honors Society

Bachelor of Science in Mathematics – May 10, 2018
- Member of the Pi Mu Epsilon Mathematics Honor Society (Secretary)
- Department of Mathematics and Statistics Honors Program

Durham Technical Community College, Durham, North Carolina

Associate in Science: Engineering – May 9, 2014
- Member of Phi Theta Kappa Honor Society
- Concurrent Enrollment and Graduation with high school

Work Experience:

Graduate Research/Teaching Assistant, January 2019 – Current
Georgia Institute of Technology
- Employment in Georgia Inst. of Technology School of Architecture front office.
  - Focus on front-end website design, development, and implementation in HTML/CSS/JavaScript. Assistance in programming and outreach events.
- Work on computational design modeling in Kangaroo2, Kiwi3D, and Grasshopper. Additional work in RhinoScript and Python on form remapping.

Program Assistant/Teaching Assistant, May 2019 - July 2019
Georgia Institute of Technology
- Program/teaching assistantship for the Summer 2019 Barcelona
  - Live-in resident assistant for students in Barcelona, Spain, teaching assistant for two architecture courses: City Literacy and Barcelona Architecture under Prof. Sabir Khan. Responsible for coursework preparation, one-to-one instruction, program event organization, live-in contact for students. Development and manipulation of GIS data for classroom presentation.

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Teaching Assistant, **August 2017 – May 2018**
University of North Carolina - Charlotte
> Teaching assistantship for two courses in the College of Arts and Architecture, UNC-C. Class instruction, grading, one-to-one instruction, and course management for Structural Systems and Computational Methods.

Private Tutoring, **August 2013 – Current**
> Private tutoring in a variety of subjects in Sciences and Mathematics. Chemistry, Physics, Mathematics (Precalculus, Calculus, Trigonometry, Differential Equations, Linear Algebra), Structural Systems for Architects, Computational Methods for Architects.

Honors and Awards:

Georgia Tech School of Architecture Leadership, Service, and Professional Promise Award, Spring 2020
Architecture Foundation of Georgia Merit Scholarship, Spring 2019
Portman Prize Studio, Third Place at Georgia Institute of Technology, Spring 2019
Lynn Hauser Pearce Memorial Merit Scholarship from UNC-Charlotte, Fall 2017
UNC-Charlotte **Chancellor's List** Fall 2014, Spring 2016, Fall 2016, Spring 2017, Fall 2017
UNC-Charlotte **Dean's List** Spring 2015, Fall 2015
Recipient of a **Research Grant** for Honors Thesis Research through the College of Arts and Architecture Honors Program for "Derivation, Form Finding, and Structural Analysis in Catenary Derivate Shells"

Research:

"Derivation, Form Finding, and Structural Analysis in Catenary Derivate Shells" Honors Undergraduate Research Thesis in Mathematics and Architecture through UNC - Charlotte
Participation in **M.A.R.S. VIP program** through GTRI at Georgia Institute of Technology (F18, S19, F19).
> **Team Leader** for Habitats and Integration sub-team (S19, F19).

Research and Design Studio at Georgia Institute of Technology in **Shape Grammars and Computation** in Architecture: focused applications of visual search algorithms in design analysis and Development under Athanassios Economou (F19).
Research and Design Studio at Georgia Institute of Technology in **Responsive Systems and the Robot House**: creative systems-level design for responsive houses through the lens of Ballard's "1000 Dreams of Stellavista" under Lars Spuybroek (S20).

Skills:

Proficient in: QGIS, GIS Concepts; Computer Skills; AutoCAD; Rhinoceros 3D Modeling, Grasshopper plug-in for Rhinoceros, Karamba3D; Revit (with Dynamo and DesignScript); Adobe Illustrator, Photoshop, InDesign; Microsoft Word etc; Matlab; coding and logic, C#, PHP, JavaScript/CSS/HTML, python.
Base proficiency in: Maple Computing Software. LUA coding. Reading Comprehension in Spanish, intermediate to advanced. Verbal Communication in Spanish, intermediate. Kiwi 3D and Kangaroo 3D plug-ins for Grasshopper.