Sarah Gibbons

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# Education

## Bacherlors science | june 2018 | Texas state university

* Major: Computer Science
* Related coursework: Computer Architecture, Object Oriented and Design, Parallel Programming, Computer Graphics

## Bacherlors science | june 2018 | Texas state university

* Major: Applied Mathematics

# Research

## Independent Study June - August 2016

* Computed NP-complete properties in graph theory using exhaustive, greedy and recursive algorithms on structured graphs
* Became acquainted with Python and developed a program to generate trees
* Performed computational experiments that approximate an inequality bounding the independence number

## Research Experience for Undergraduates Spring 2017

* Constructed zero-forcing sets on Generalized Petersen Graphs (GPG), proved they are minimal and derived a formula for finding the zero-forcing number

## Hackathons

* ComDes + Smart Cities Hackathon 2017- Used python scripts and transportation datasets, produced the number of seats available on a bus at each stop
* ATX Hack4Change 2017 – Used the ionic framework and node.js to create an online marketplace that connects small farmers directly to buyers of fresh local produce

## Leadership

* Association of Women in Mathematics (AWM) - President

# Experience

## Lab assistant | computer science department at texas state university | june 2017 - current

* Helped individual students find and eliminate bugs in their code.
* Conducted lab sessions for Foundations of C++ Programming.

## student worker | COMPUTER SCIENCE DEPARTMENT AT TEXAS STATE | october 2016 – june 2017

* Answered all incoming calls and handled caller’s inquiries
* Provided word-processing and clerical support

## Awards

* Winner "Problem Solving Challenge" for the Women Doing Math Program