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