FLORIANA CIAGLIA

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EDUCATION

B.S. Computer Science, Minor in Applied Mathematics
Boise State University

📅 Fall 2018 – Ongoing   📍 Idaho, United States

- Overall GPA: 3.93
- Expected graduation: May 2022

`Algorithms` `Data Structures` `Programming Languages` `Databases` `Parallel Computing` `Natural Language Processing`

WORK EXPERIENCE

Software Engineering Intern
National Center for Atmospheric Research (NCAR)

📅 May 2020 – July 2020   📍 Boulder, Colorado

- Refactored configuration related code in the ASPEN (Atmospheric Sounding Processing Environment) program with the goal of eliminating technical debt.

`C++` `Qt` `Boost Library` `Scons` `Jira`

Undergradute Research Assistant
ADaPT Lab

📅 Feb 2019 – Present   📍 Boise State University

- Member of the ADaPT data flow optimization lab for research in high performance computing, compiler optimization research and performance benchmarking
- Currently working on recreating a neural network for handwriting image recognition
- Programed full waveform LiDAR processing tools as part of team based on the PulseWaves data exchange format

`C++` `Python` `GoogleTest` `GDAL` `R2 compute cluster` `Keras` `OpenCV`

PUBLICATIONS

- Shankar R., Ilangakoon N., Orenstein A., Ciaglia F., Glenn N. F., Olschanowsky C. (2019). AdaptLidarTools: A Full-Waveform Lidar Processing Suite. 2019 15th International Conference on eScience (eScience).

PROJECTS

Interpreter
Developed an interpreter with the purpose to learn about the scanning, parsing, semantic evaluation and control flow processes while iterpreting a programming language.

`Python`

The Expense Tracker
Developed an iOS application with the purpose to aid the users in tracking their spending habits.

`Swift` `SwiftUI` `XCode`

PRESENTATIONS

Idaho Conference on Undergraduate Research
Presented "LiDAR Processing Tools" at ICUR in 2019.

Research Computing Days
Presented "LiDAR Processing Tools" in 2020.

NCAR - SUPER Program
Created and presented a poster about the work accomplished over my summer internship.

SKILLS

Java	●●●●○
C++	●●●○○
C	●●●○○
Python	●●●○○
Git	●●●○○
Swift	●●○○○
Shell	●●○○○

Italian	●●●●●
English	●●●●●
Spanish	●●●●○