Floriana Ciaglia

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EDUCATION

Bachelor of Science in Computer Science, minor in Applied Mathematics May 2022
Boise State University – Honors College graduate GPA 3.8

- **Select Course Work**: Spoken Dialogue Systems, Natural Language Processing, Programming Languages
- **Skills**: Python, Java, Git, C, C++, Bash, SQL

EXPERIENCE

Roboflow, May 2022 – Aug. 2022
Machine Learning Intern Remote

- Lead the experiment implementation and paper writing of the Roboflow 100 project – a project with the purpose of creating a computer vision benchmark with 100 Roboflow Universe datasets
- Used Machine Learning to fine-tuned the YOLOv5 and YOLOv7 models, and evaluated the GLIP model

ADaPT Data Flow Optimization Lab, Feb. 2019 – May 2022
Undergraduate Research Assistant Boise, ID

- Digitizing Historical Forest Service Data - Lead researcher of team of undergraduates developing a handwritten character detection pipeline for character extraction
- Full Waveform Lidar Data Analysis Tools - Part of a team that developed full-waveform LiDAR data processing tool based on the PulseWaves data exchange format

National Center for Atmospheric Research (NCAR) June 2020 – Aug. 2020
Software Engineering Intern Boulder, CO

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

PROJECTS

Multiplex Lexical Network

- Developing a multi-layered network with the intent to simulate children's first language acquisition experience
- Currently looking at how the network grows with different graph attachment modalities
- Tech & Tools: Python, NetworkX, PyTorch, Trello, Github

PRESENTATIONS

Research Computing Days: LiDAR Processing Tools, 2020; Digitizing Historical Forest Service Data, 2021
SUPER Program, NCAR: Poster on the Atmospheric Sounding Processing Environment for summer internship, 2020
Idaho Conference on Undergraduate Research: Full Waveform Lidar Data Analysis Tools, 2019

PUBLICATIONS

[1] Floriana Ciaglia, Massimo Stella, and Casey Kennington. *Investigating preferential acquisition and attachment in early word learning through cognitive, visual and latent multiplex lexical networks*. Mar. 2022. DOI: 10.31234/osf.io/3qtuk. URL: psyarxiv.com/3qtuk.

[2] Ravi Shankar, Nayani Ilangakoon, Aaron Orenstein, Floriana Ciaglia, Nancy F. Glenn, and Catherine Olschanowsky. "AdaptLidarTools: A Full-Waveform Lidar Processing Suite". In: *2019 15th International Conference on eScience (eScience)*. 2019, pp. 369–377. DOI: 10.1109/eScience.2019.00048.