

LUCIA SALDANA BARCO

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EDUCATION

Colorado School of Mines Golden, CO
Bachelor of Science - BS, Computer Science Expected Dec. 2023

- President's Scholarship, Aug. 2020 – Present
- Dean's List: fall 2020, spring 2021, fall 2021, spring 2022
- Fulfilld C-MAPP Scholar
- **Activities:** SWE, Vanguard Community of Scholars, Association of Computational Machinery

EXPERIENCE

MInDS@Mines Lab, Colorado School of Mines Golden, CO
Undergraduate Research Fellow Aug. 2020 - Present

Member of Machine Learning and Data Science research group led by Dr. Hua Wang

- Applied machine learning algorithms to histopathological image analysis
- Worked on medical image segmentation and feature extraction
- Presented in 2021 Undergraduate Research Symposium
- Third author of paper, "Scaling Multi-Instance Support Vector Machine to Breast Cancer Detection on the BreaKHis Dataset" (presented at the ISMB conference July 10th-14th, 2022)

Lockheed Martin Capstone Project, Colorado School of Mines Golden, CO
On-Board Spacecraft Object Detection Aug. 2021 - Dec. 2021

- Worked on feature detection to identify components of spacecraft during satellite servicing mission
- Got experience working with resource constraints of embedded systems

SKILLS

Bilingual: English and Spanish	Git, GitHub
Python, Java, C++, SQL, R, Julia, Assembly	Data Analysis / Feature Extraction
Pandas, Matplotlib, Scikit-Learn	Technical writing, teamwork, time management

HONORS AND AWARDS

- C-MAPP Scholarship: Industrial partnership program with CS@Mines, Feb. 2022
- FIRST Research Fellow: Research Fellowship Award for first-year students, 2020-2021
- MURF Research Fellow: Mines Undergraduate Research Fellowship, 2021-2022
- Vanguard Community of Scholars, Aug. 2020 - Present
- President's Scholarship, Aug. 2020 - Present
- Outstanding Computer Science Student Scholar Honor Award, 2019-2020

COURSES

Applicable coursework:

Data Structures, Linux OS, Data Science, Software Engineering, Computer Organization, Discrete Math, Database Management, Artificial Intelligence, Elements of Computing Systems

Upcoming coursework: Algorithms, Computer Networks, Information Security and Privacy