

STEFANO FOCHE SATTO

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Profile

I'm an enthusiastic problem-solver ready to launch my scientific career. My B.S. in Mathematics has fueled my passion for graph theory, applied mathematics, data science, and statistics. I'm seeking experiences that will expand my programming knowledge and work to address today's pressing problems in climate change and natural resource management.

Skills

Programming Languages: Matlab, Python, R, MySQL, LaTeX

Programming Tools: Jupyter Notebook, Git, VS Code, Google Cloud Platform, AWS, Microsoft Azure, OpenCV, Pytorch, Tensorflow

Languages: Spanish

Education

University of Alaska Fairbanks

Bachelor of Science, Major in Mathematics, Minor in Statistics

United States

August 2017 – Dec 2021

Relevant Coursework:

- Direct Study: Machine Learning in the Cloud
- Numerical Linear Algebra | Numerical Analysis
- Regression & ANOVA | Scientific Sampling

Awards:

Alaska Performance Scholarship

2017 – 2021

Semper Fidelis Award for Musical Excellence

2016 – 2017

Experience

Graduate Research Assistant

January 2022 – Present

University of Alaska Museum of the North

Fairbanks, Alaska

- Researched and developed a workflow for clustering herbarium sheet specimen in a way which signals species delimitation. Research was presented at Botany 2022.
- Applied multiple deep learning image clustering algorithms across both pytorch and tensorflow.
- Assisted in the development of a computer-vision and deep learning workshop for botanists at the Botany 2022 Conference.

Mathematics and Programming Intern

May 2022 – August 2022

Cold Regions Research and Engineering Laboratory

Fairbanks, Alaska

- Designed a deep learning algorithm to extract high quality snow cover data from time lapse videos.
- Aided multiple geo-science projects with statistical consultation on research design.
- Automated several workflows for collating and accessing data.

Direct Study

August 2021 – December 2021

University of Alaska Institute of Arctic Biology

Fairbanks, Alaska

- Assisted with the development of an undergraduate level Machine Learning course at UAF.
- Completed several Machine Learning projects, and model lab reports for future reference. Projects were primarily focused on Random Forest and Gradient Boosting models.
- Worked closely with Dr. Huettmann to create a ML model to produce a Relative Index of Occurrence (RIO) map for the Icelandic Rock Ptarmigan Species.

Mathematics Tutor

University of Alaska Fairbanks Athletics Department

October 2020 – August 2021

Fairbanks, Alaska

- Tutored several student athletes in various mathematical topics like the calculus sequence and statistics.
- Organized and lead large study sessions.
- Created individualized lesson plans tailored to the needs of each student.
- Achieved higher test grades in students and increased mastery of mathematical concepts.

Community Involvement

Fairbanks Jazz Workshop

Co-Founder and Lead Musician

Fairbanks Community Jazz Band

First Chair Saxophonist

First A.M.E. Church

Lead Musician

References

Prof. Jill Faudree

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Prof. Falk Huettmann

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Prof. Stefanie Ickert-Bond

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