Emiko Sano
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SUMMARY

I am a microbial geneticist and educator turned data scientist. I want to use my resourcefulness, curiosity, and expertise in finding meaningful insights from data to help people's lives.

SKILLS

Python (NumPy , Pandas, Scikit-Learn, Matplotlib, Seaborn, Folium, TensorFlow, Keras, BeautifulSoup, SciPy) | Jupyter Lab | Machine Learning | Statistical Inference | Statistical Data Analysis| Data Visualization | Natural Language Processing (NLP) | Artificial Neural Networks | Web Scraping
Basic knowledge: R (including ggplot2) | A/B Testing | PostgreSQL | Regex | Git | Bash | AWS

RELEVANT EXPERIENCE

General Assembly   Remote
Data Science Immersive   August 2020 - November 2020
o   Regression modeling of student state assessment performance scores using NYC schools survey data: found that students' perception of safety in/around schools is important in how well students perform in tests
o   Unsupervised modeling for risk assessment due to COVID-19, wildfires, and earthquakes in California (collaborative work): generated visual maps that can be used for making preparedness plans
o   Predictive modeling for subreddit classification based on post using NLP modules in Python: my best model had a 90% accuracy for correctly classifying the post's origin.

The University of Montana   Missoula, MT
Postdoctoral Researcher   January 2013 - May 2018
o   Trained and mentored all lab personnel (total of 12) who ranged from high school students, summer interns, undergraduate students, and graduate students (master and Ph.D.): all of them are successful at pursuing their next career goals
o   Genome evolution research with focus on maintenance of genes in natural populations of bacteria
o   Performed microbial evolution research (experimental design, data collection, and analysis) that resulted in publication in a prestigious peer-reviewed journal (*Nature Ecology and Evolution*)
o   Collaborated with a lab at the University of Wisconsin, Madison for native protein purification

University of California, Davis   Davis, CA
Graduate Student Researcher/Teaching Assistant   April 2005 - December 2011
o   Performed microbial genetics research (experimental design, data collection, and analysis) that resulted in publication in a peer-reviewed journal (*Genetics*) and issue-highlighted article
o   Taught a microbiology lab and two introductory biology courses (for majors) over the years (a total of about 175 students). Students who came consistently to my office hours increased their grades by half a grade or more over the term: the passing rate for all terms combined was at around 95%
o   Mentored an undergraduate student for multiple years who eventually entered medical school

VOLUNTEER EXPERIENCE

Soft Landing Missoula   Missoula, MT
Math and Science Volunteer Tutor   March 2019-Present
o   Working with refugee high school and middle school students to go over math and/or science homework
STARBASE   Helena, MT
STEM Volunteer Role Model   November 2017
o   Promoted STEM careers to 5th graders in Helena through engagement with a real-world scientist

EDUCATION

University of California, Davis   Davis, CA
Ph.D. Microbiology
o   Microbiology Graduate Group Representative to UC Davis Graduate Student Association (2 years)
o   Intramural Sports Microbiology Soccer Team Organizer/Captain (4 years)
San Diego State University   San Diego, CA
B.S. Biology with an emphasis in Cellular and Molecular Biology
o   Graduated Magma Cum Laude