

Emiko Sano

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SKILLS

Programming Languages: Python | R | PostgreSQL

Tools: Git | Jupyter | Excel | Tableau

Python Libraries: Pandas | NumPy | Matplotlib | Seaborn | Statsmodels | Pingouin | Scikit-Learn | NLTK | BeautifulSoup

Machine Learning: Linear Regression | Logistic Regression | Decision Tree | Random Forest | Gradient Boosting | PCA

Statistical Methods: Statistical Inference | t-Test | ANOVA | Tukey's HSD Test | A/B Testing

EXPERIENCE

Correlation One

Remote

Data Science Teaching Assistant

2021 – Present

- Guide 40 students through topics in **data analytics** (data wrangling, visualization, hypothesis testing, statistical inference, A/B testing, regression analysis) and debugging **python** codes
- Support 7 team projects in sourcing data, project scoping, and analyzing data to solve business problems and deliver dashboards/datafolios and reports in 13 weeks

Freelance

Missoula, MT/Remote

Science Expert Reviewer @ Study.com | Private Biology Tutor

2018 – Present

- Reviewer: Editing and fact-checking of educational science content (biology, chemistry, math) to bring the material to Study.com's standards while providing positive and constructive feedback to content writers
- Tutor: Prepare material and break down complex concepts for biology high school students

The University of Montana

Missoula, MT

Postdoctoral Researcher

2013 - 2018

- Led a microbial evolution research project from **experimental design** to **statistical analysis**
 - ⇒ Used **R** and **Excel** for analysis; t-test, ANOVA, Tukey's HSD test
 - ⇒ Resulted in a publication in *Nature Ecology and Evolution*
- Produced preliminary findings that contributed to the award of a multi-lab, \$8.2 million grant
- Supervised all lab personnel (13 total) of all levels to execute experiments and meet project milestones

University of California, Davis

Davis, CA

Postdoctoral Researcher

2012 - 2012

Graduate Student Researcher

2005 - 2011

- Conducted microbial genetics research (experimental design, data collection, and statistical analysis)
 - ⇒ Resulted in a publication in a peer-reviewed journal (*Genetics*) and issue-highlighted article
 - ⇒ Conducted **hypothesis testing** and applied **regression analysis** in Excel
- Presented research results at local to international scientific conferences in oral or poster presentations

DATA SCIENCE PROJECTS

Identifying factors that affect students' performance using NYC schools survey data

- Used **machine learning** models (PCA, linear regression, gradient boosting) in **Scikit-Learn** & found that the perception of safety in schools is important in how well students perform
- Recommended schools to implement programs to address safety/bullying at schools

Predicting the origin of subreddits based on the text in posts

- Cleaned and analyzed text from 15,000 posts using **NLTK**, **Countvectorizer**, or **TfidfVectorizer**
- Optimized **classification models** (Logistic Regression, Decision Tree, Random Forest) reaching ~90% accuracy

EDUCATION

University of California, Davis

Ph.D. Microbiology | Davis, CA

San Diego State University

B.S. Biology with an emphasis in Cellular and Molecular Biology | San Diego, CA

General Assembly

Certificate of Completion in Data Science | Remote

VOLUNTEER EXPERIENCE

Dat0s | A Minority Data Community

Remote

Engagement Manager | Events Coordinator

2021-Present

- Helping other data scientists with data projects, coordinating and hosting monthly social hour and career event