Lynn Gao

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Education

Data Science, *University of California, Irvine*   Sep 2018 – present
Member of UCI's Campuswide Honors Collegium.
Member of School of Information and Computer Science Honors Program.
Member of Women in Information and Computer Science (WICS).
3.92 GPA

Projects

LA Engineer Salary   Sep 2020
- Tested whether the average engineering salary in Los Angeles' public sector is greater than the U.S.' average engineering salary.
- Used R to conduct Bayesian analysis on Los Angeles City Employees data.
- Used a Beta-Binomial model for the prior, likelihood, and posterior distributions. Created 95% credible interval for the posterior distribution.

Modeling COVID-19 Spread   Jun 2020 – Aug 2020
- Simulated social distancing and Covid-19 infection spread within models of UCI's Mathematics Department.
- Used Python to create various network models (spatial, scale-free, block, etc.) and simulate Covid-19 infection spread within these models.
- Used enrollment data from Spring 2020 to increase accuracy of social distancing simulations.

Water Wells During The California Drought   Aug 2019 – Oct 2019
- Created a user-friendly representation of California's climate and water well level data spanning 35 years of the California Drought.
- Used R, R's Shiny package, and Shinyapps to implement this project as an interactive website.

Skills

Microsoft Office • Python, R, C++, Matlab

Professional Experience

Lab Tutor Coordinator, *UCI School of Information and Computer Science*   Sep 2020 – present
Scheduling tutors in labs, collating tutor feedback from students, keeping class attendance, maintaining tutoring website, etc.

Computer Services Helpdesk Technician, *UCI School of Social Sciences*   Feb 2020 – present
Addressing computer support questions by phone, setting up computer equipment, installing software, and resolving computer issues.

ICS Lab Tutor, *UCI School of Information and Computer Science*   Sep 2019 – Mar 2020
Working in course labs and giving students "first aid" help as they work on their Python lab assignments.

Instructor, *Aloha Mind Math, Cerritos* Sep 2018 – Jan 2020
Taught students to master complicated mental math, such as calculating three-digit multiplication.

Awards

Emerging Researcher Scholarship, *UCI Office of Financial Aid and Scholarships* 2020
Campuswide scholarship for students who demonstrate a diverse perspective, background, or mindset and have taken part in research work as an undergraduate.

National Merit Scholarship - Finalist, *National Merit Scholarship Corporation* 2018

Dean's List

2018 • 2019 • 2020

Conferences

Virtual Grace Hopper Celebration
September 27, 2020 - October 3, 2020

Google Explore CSR Workshop at CSULB
February 22, 2019 - February 24, 2019
Long Beach, CA

California Water Data Challenge Summit
October 16, 2019
Sacramento, CA

SoCal AI & Data Science Conference 2019
October 26, 2019
Los Angeles, CA

Languages

English • Mandarin