

JESSICA LI

801 Simpson St, Apt 2, Evanston, IL 60201 • (916) 582-0767 • jessica.li@u.northwestern.edu

EDUCATION

Northwestern University (Evanston, IL) | *Weinberg College of Arts and Sciences* | exp. December 2021

- **Majors:** Statistics, Environmental Sciences, Minor in Data Science
- **Overall GPA:** 3.9; **Honors:** Dean's List, National Merit Scholarship
- **Relevant Courses:** Regression Analysis, Data Structures & Algorithms, Statistical Theory and Methods, Data Visualization, Linear Algebra, Multiple Integration and Vector Calculus, Multivariable Differential Calculus
- **Skills:** Microsoft Excel; Python, R, SQL, C++, Java; Geographic Information Systems; Adobe Creative Cloud
- **Languages:** English (native), Mandarin (fluent), Spanish (proficient)

EXPERIENCE

Center for Neighborhood Technology | *Data Analyst Intern* | June 2020—August 2020

- Conducted multivariate regression analysis in R to model data on nationwide transportation and housing costs, updating the accuracy of an index tool being used by over 12 major federal agencies and planning firms
- Optimized fit and improved accuracy of 5 regression models by up to 40% between 25 independent variables measuring national commute and demographic data
- Used Python and SQL to consolidate and clean raw data from AWS RDS to SQL-queryable tables used in statistical models and analysis across the company
- Developed and ran gravity models in Python using spatial and numeric data to monitor and model transportation behavior and trends in over 220,000 neighborhoods

U.S. Department of Agriculture | *Summer Analyst Intern, NRCS* | June 2019—August 2019

- Analyzed raw data for four national projects using Excel, including regional energy usage and state expenditures
- Created an aggregate database of species expenditures from 50 states for the national report on U.S. Fish and Wildlife by using a more efficient data entry model, greatly reducing time spent on research by scientists and policymakers
- Consolidated pest management data from 50 state websites to create a clean, efficient framework

Global Research and Consulting | *Vice President of Marketing, Kellogg School of Management* | 2019—Present

- Work with global NGOs and social impact startups to develop competitive quantitative analysis, donor-sponsor relations, fundraising and social media strategies, and research on macroeconomic and industry trends for clients
- Conducted industry-specific surveys and research analysis to provide a recommendation for an optimal donor-advised fund structure to a client serving African American institutions and nonprofits
- Oversee a committee that designs original marketing materials and manages effective social media presence

Osburn Isotope Geobiology Lab | *Research Assistant, Microbial Culturing and Imaging Lab* | October 2018—May 2019

- Worked with scientists on multiple ongoing research experiments concerning environmental microbes

Rutgers Medical School | *Research Intern, Anesthesiology Lab* | July 2016—August 2018

- Conducted over 25 pain sensitivity tests and performed neurosurgery on over 50 ethanol-withdrawn rats
- Edited and reviewed two published research papers concerning the role of lateral habenula in alcohol addiction and the effects of alcoholism including hyperalgesia

ACTIVITIES

Students for Ecological and Environmental Development | *President* | 2019—Present

- Manage operations of largest environmental club on campus, liaising with the university sustainability board
- Promote sustainability on campus by planning and hosting university-wide events including Green Cup residence hall competition, climate change speaker series, environmental mentorship program for elementary students

A&O Productions | *Development Board* | 2019—Present

- Plan and execute large-scale events hosting musical artists and speakers for audiences of over 1000 students
- Manage internal and external relations between an 80-person student group and the university and alumni

Chinese Students Association | *Junior Executive* | 2018—Present

- Organize and coordinate university-wide events to spread awareness of Asian culture and identity

INTERESTS

- Created and manage an online business (@vansbyj) selling custom art designs
- Original paintings exhibited in The Point of Origin Show and SOPAC Inspired Minds Exhibition and received Arts Advisory Junior Award of Merit, 3 Scholastic Awards, and Bow Seat Ocean Awareness Award