

Sydney Tomsick

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Education

BS **University of California Los Angeles**, Statistics and Data Science Sept 2022 – Present

- GPA: 3.83
- Minor in Digital Humanities
- **Coursework:** Introduction to Digital Humanities, Design and Analysis of Experiment, Statistical Models and Data Mining, Statistical Programming with R

Projects

Website for DH 101, [Exploring Female Representation in MoMA](#) Sept – Dec 2024

- Using a dataset on artwork collected by MoMA, my team and I created a website discussing the lack of female representation in art museums
- Used WordPress to design and compile the website
- Used Tableau to create data visualizations

Website for Flora Lochlan, [Flora Lochlan](#) Dec 2024

- A fun website promoting a novel my friend wrote
- Used Google Sites to design and compile the website

Kaggle Competition: Predicting Obesity Status Using a Random Forest Model Dec 2024

- Provided with a training and testing dataset containing 29 predictors
- Tasked with predicting obesity status for the testing dataset and determining the most influential predictors
- Performed random forest imputation and created a random forest model with 500 trees
- Our final model had 99.943% prediction accuracy

A Clinical Study: The Effect of Caffeine and Exercise on Attention Aug 2024

- Created a two-factorial experimental design with interactions
- Tested on a virtual human population "The Islands"
- Using R, I created an MLR model and completed an ANOVA analysis, a Tukey HSD test, and exploratory data analysis (boxplots, interaction plots, diagnostic plots)

Leadership & Activities

Co-Director of Synthesis Dance Theater June 2024 - Present

Data Journalist for the Daily Bruin Sept 2023 - Present

- Use Javascript and HTML to create data-based articles and instagram posts

Publications

Daily Bruin Article Jan 2024

[Getting Off the Ground: Exploring Startups at UCLA](#)

Skills

Languages: R, familiarity with Python, Javascript, and HTML

Technologies: WordPress, Google Sites, Figma, Canva, Microsoft Suite, Tableau, Power BI, Github, VS Studio