ZIYUE (LORETTA) HU

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EDUCATION

University of California, Los Angeles Los Angeles, CA
BS in Statistics and Data Science *Expected 06/2025*

- GPA: 3.873 / 4.0; Dean's Honors List recipient
- Relevant coursework: Machine Learning, Data Science, Computational Statistics, Algorithms and Data Structures, Analysis and Regression, Multivariable Calculus, Linear Algebra

RESEARCH AND ACADEMICS

Quantitative Psychopathology Lab at Boston University 08/2024 – present
Primary Research Assistant *Remote*

- Directed data monitoring team of 15 RAs, facilitating weekly check-ins to address challenges in data collection and troubleshooting, promoting collaboration and clear communication
- Developed and implemented from scratch a detailed data tracking system to manage submissions and ensure protocol compliance, coordinating tasks across 4 teams of 20+ RAs. The system streamlined baseline surveys, Zoom interactions and daily diary submissions, ensuring overall data accuracy and workflow efficiency.
- Conducted meta-analysis on 500+ papers on neural correlates of emotional regulation and suicide

UCLA Fielding School of Public Health 06/2024 – present
Researcher *Remote*

- Analyzed 10,000+ rows of patient data across 15+ variables, comparing trabeculectomy outcomes between Hispanic and European patients, uncovering demographic differences in surgical success rates
- Synthesized findings and designed visualizations via R Markdown towards an abstract for presentation at the 2025 American Glaucoma Society Annual Meeting

PROFESSIONAL EXPERIENCE

Mars Wrigley China 06/2024 – 09/2024
China Digital Team Intern *Guangzhou, China*

- Explored correlation between macroeconomic indicators and sales data by analyzing multiple 600,000+ row datasets; presented in weekly round-table meetings, summarized actionable findings to business department leaders
- Collaborated with the Digital Team on an employee data skill-enhancement project; coordinated participant engagement for two events with over 500 employees
- Established and enhanced a knowledge management system for associate training, received high demand and usage
- Developed a hackathon structure and carried out the logistics, resulting in 20 percent increase participation and extra funding from the executive board

UCLA Library 09/2023 – present
Consultant / Norman Powell Data Scientist *Los Angeles, CA*

- Help researchers manage data through every phase in research life cycle, 15 hours a week
- Create and consult researchers on data visualizations with Tableau, R ggplot2, and other web-based tools
- Improve efficiency and reproducibility for client-produced prepublications and assignments (example: R-code refactorization on GIS dataset, recommendations on improving speed in parsing a large LAPD helicopters dataset)
- Create and update documentation for library users on research software and coding resources, etc.

EXTRACURRICULARS

Data Science Union 03/2022 – present
Researcher (Data Science Union is a 501(c)(3) student organization for data scientists) *Los Angeles, CA*

- Recruited as one of top 18 out of 200 applicants; trained in 10-week Python curriculum with 5+ practice projects
- Developed a deep learning multi-class language classification model, rated and predicted the effectiveness of argumentative elements in student writing

Body Empowerment Project 09/2024 – present
Undergraduate Volunteer (BEP is a 501(c)(3) organization empowering youth to find body acceptance.) *Los Angeles, CA*

- Contributed in weekly training sessions to enhance knowledge in public health outreach and adolescent psychology, as well as education on sensitive topics related to body image and self-worth
- Advocated for healthcare equity by participating in initiatives aimed at reducing eating disorder risks and addressing disparities in access to treatment among marginalized populations
- (Future in spring 2024) Will host workshops for middle and high school students on body image, self-esteem, and eating disorder prevention, promoting self-acceptance and mental wellness among underserved communities

Net Impact at UCLA   09/2021 – 09/2023

Project Manager (Net Impact is a student-run social impact consulting organization)   *Los Angeles, CA*

- Consulted for Y-Combinator-backed foreign start-up to enter US, secured their partnerships with US business
- Created marketing plan for a client with survey receiving 200+ responses; EDA using R to draw insights
- Conducted research with 501c3 company Open Earth on spatial data platforms and marine biodiversity; produced and published an 8-page report on the landscape of Nature-based Solutions (NbS) data, delivered multiple presentations

PROJECTS

Institute of Museum and Library Services | *Data Carpentry, Jeckyll, GitHub, Markdown, R*   06/2023 – 09/2023

- Devise, refine, and maintain templates and infrastructure for adapting curricula to community standards
- Create documentation on the Carpentries Methodology for a non-technical audience, utilizing Github Pages
- Assist lesson authors with a wide range of technical experience to create their curriculum web pages
- Provide support and instruction for lesson authors on using lesson templates and infrastructure via weekly office hours.

Diffusion Model and Prompt Engineering Pipeline | *SwiftUI, Python, Huggingface*   09/2022 – 01/2023

- Researched novel applications of stable diffusion models; deployed methods onto a keyboard plugin that lets users prompt a diffusion model to generate images from the web; released said keyboard app "CatHat" on the iOS AppStore

Financial Analysis Report | *Python, Tableau, Slack, MS Office, Google Sheets*   09/2023 – 01/2024

- Lead a team of 6, managed smooth operations between client, supervisor and team members
- Performed EDA on 4 annual financial reports, analyzed financial health and operations efficiency
- Pinpointed strategic balance of investing resources/energy to yield maximum benefits

SKILLS AND OTHERS

Programming Languages: Python, R, C++, SQL, MatLab, CSS, AngularJS, SwiftUI
Developer Tools: Github, Tableau, Wordpress, Google AppScript, MS Office, TensorFlow, Keras, Canva, Figma
Interests: Brazilian Jiu Jitsu (two-stripe white belt), Mixed Martial Arts, reading
Certifications: National Academy of Sports Medicine Certified Personal Trainer (NASM-CPT)