Jaime Serrano

jaimeserrano32@gmail.com

EDUCATION

University of Washington, The Information School   **Jun 2027**
Master of Science, Information Management

University of Washington, School of Interdisciplinary Arts & Sciences   **Jun 2024**
B.A., Science, Technology, & Society

EMPLOYMENT EXPERIENCE

Casey Lab, University of Washington, Department of Environmental & Occupational Health Sci-   **Jan 2024 - Mar 2025**
ences
Research Analyst
- Utilized R (tidyverse) to conduct evaluative data analysis on a large environmental dataset, enabling precise identification of partici-pants' lived environments.
- Created 100+ map files with ArcGIS using R-filtered data, delivering geospatial insights that informed research direction for the cohort.
- Constructed multiple line grids within ArcGIS for the cities of Seattle and Chicago that resulted in a more accurate representation of the environment.
- Created R scripts that allowed for the merging of multiple county files, resulting in easier analysis of overall state data.
- Utilized the created R scripts to clean up county data, allowing for more precise state data.
- Used analysis results to co-author the cohort's research paper, collaborating with cross-functional teams to ensure accurate interpre-tation of environmental findings.

THINK Lab, University of Washington, Department of Civil & Environmental Engineering   **Jul 2023 - Sep 2023**
Research Assistant
- Collaborated with researchers and product stakeholders to conduct a literature review of 10+ quantitative methodologies, informing ongoing lab studies and design decisions.
- Illustrated an informative graphic for the researcher by using their research paper, which then aided in summarizing 4 important aspects of their research findings.
- Fabricated 20+ ellipses in ArcGIS using confidence intervals and a Python (pandas)-filtered dataset to reveal new behavioral patterns and guide data-driven strategies.
- Developed Python scripts that automated ellipse creation across multiple files, reducing manual processing time and enabling faster iteration for lab members.

UNIVERSITY PROJECTS

RunAR   **Sep 2025 - Dec 2025**
University of Washington
- Conducted user interviews focused on a hands-free running solution, resulting in identifying key wants and needs of users
- Created 2 low-fi prototypes of the UI for our design of AR running glasses, resulting in a clearer vision of our testable prototype
- Recorded multiple videos during our Wizard of Oz user testing, providing evidence of our product's strengths and weaknesses

User Study Research   **Jan 2024 - Jun 2024**
University of Washington
- Coded 20+ excerpts from participants using Dedoose, increasing the accuracy of the previous research.
- Used a Likert-Scale to obtain quantitative results that showed what users preferred.
- Conducted qualitative research by using thematic analysis, resulting in 4 themes arising from the research.

SKILLS

- **Programming Languages**: HTML, CSS, JavaScript, Python (pandas), R (tidyverse, dplyr, ggplot2, shinyapp)
- **Data & Analysis Tools**: Tableau, Arc GIS, Dedoose
- **Design & Prototyping**: Figma, Adobe Illustrator, Rhino
- **Methodologies:** Thematic Analysis, Systems Thinking, Design Thinking