

Lewis White

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Mixed-methods researcher and data analyst with experience in environmental health, public health, and UX research. Skilled at integrating quantitative and qualitative approaches to generate clear, actionable insights.

PROFESSIONAL EXPERIENCE

Data Analyst – Columbia University Mailman School of Public Health (9/23–3/26)

GasPay Project: Partnered with a Ghanaian software consultancy and fintech firm to develop GasPay, a platform connecting liquefied petroleum gas (LPG) consumers and suppliers in Ghana.

- Contributed to two randomized studies evaluating GasPay incentives, platform features, and LPG-adoption policy effectiveness.
- Combined app data, survey responses, and qualitative interviews to identify barriers to engagement and inform user education and platform changes associated with a 50% increase in usage.
- Developed interview guides exploring user experience, financial decision-making, and gender dynamics around LPG purchasing, using thematic analysis to surface insights informing platform design.

Ghanaian Community Air Quality Assessment

- Built a multi-year data pipeline for a 66-monitor air quality network in Ghana, delivering a cleaned exposure dataset supporting epidemiological research and a workflow now adopted by an East African research team.
- Authored a formal monitoring report and presented findings to funders, including the Clean Air Fund, translating complex sensor network data into accessible results for non-technical audiences — [blog post](#)

Mental Health and Extreme Heat Study

- Applied distributed lag non-linear models (DLNMs) and ordinal logistic regression to evaluate time-varying associations between heat exposure and maternal stress, identifying gestational windows of elevated risk.
- Led analysis and first-authored an accepted manuscript in *Environmental Research: Health* examining heat exposure and psychosocial stress among pregnant women in rural Ghana — [blog post](#)

UX Research Advisor – dscout, Chicago, IL (6/20–7/22)

- Advised clients from 35+ accounts, including Nike, Accenture, and Microsoft, on survey and diary study design and qualitative UX research across generative, evaluative, and rapid-iteration phases.
- Co-led original research on LGBTQIA+ community experiences with 52 participants, contributing to question design and analysis, with [findings published](#) in dscout's *People Nerds* blog.
- Designed and ran an internal RCT to test whether structured video instructions improve participant response quality, using ANOVA and t-tests to confirm significant improvements in luminosity, stability, and verbal richness. Presented findings company-wide, leading other researchers to use my instructions — [blog post](#)

Data Scientist and Communications Manager – Master's Capstone Project (1/23–6/23)

- Co-developed a methodology for constructing climate scenarios by stitching segments of Cal-Adapt climate-model output, expanding the range of inputs available to the RHESSys-fire ecohydrological model.
- Built an R Shiny application through a collaborative Git workflow and led meetings with the Tague Team Lab and Moore Foundation, translating needs into app features and public-facing wildfire-risk visualizations.

EDUCATION

Master of Environmental Data Science, 3.97 GPA (6/23)

Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)

Highlighted Coursework: Data Visualization and Communication, Machine Learning, Policy Evaluation

Bachelor of Arts in Statistics and Psychology (Cum Laude), 3.71 GPA (6/20)

Carleton College, Northfield, MN

SKILLS

Languages: R, Python, working knowledge of SQL and Bash

Tools/Platforms: Git, GitHub, RStudio, Jupyter, Quarto, VS Code, Shiny

Methods: Statistical modeling, time-series, machine learning, survey design, experimental design, data visualization

Communication: Scientific writing, public-facing writing, stakeholder presentations, automated reporting