Vedika Shirtekar

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EDUCATION

Master of Environmental Data Science (Expected June 2026)
Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)
Highlighted Coursework: Scientific Programming, Python for Environmental Data Science, Environmental Statistics, Geospatial Analysis and Remote Sensing

Bachelor of Science in Environmental Science (Biology) (May 2025)
University of Texas at Austin, Austin, TX
Credential: Applied Statistical Modeling
Leadership/Involvement: Marine Science Club (Vice President), Women in Data Science and Statistics

EXPERIENCE

U-share-iT Undergraduate Intern – UT Environmental Health & Safety, Austin, TX (9/24–5/25)
- Developed and designed an online shared platform/website at UT Austin to promote lab instrumentation/equipment reuse, reducing greenhouse gas (GHG) emissions
- Collaborated and hosted workshops with researchers to encourage material reuse, fostering a sustainable environment

Data Analytics Undergraduate Research Assistant – UT Division of Student Affairs, Austin, TX (5/24–7/24)
- Coded qualitative thematic analysis based on survey responses to improve the university food pantry service
- Conducted principal component analysis (PCA) to determine correlations between various elements of student belonging; helped produce a report on the university community based on student feedback

Climate Data Analyst – UT Climate Leaders, Austin, TX (8/23–5/24)
- Developed a GHG reduction plan and carbon inventory for the College of Fine Arts by analyzing and visualizing data in RStudio and Excel; entered Scope based data into Sustainability Indicator & Analysis Platform (SIMAP)
- Presented six key reduction strategies targeting waste, building energy use, and air travel to Dean Ramon Rivera

PROJECTS

Undergraduate Thesis: Exploring the Environmental Significance of the Nueces River (9/24–5/25)
- Examined historical and ecological health of the Nueces River based on major water withdrawals, reduced environmental flows, and increased salinity levels in Nueces Bay

Analysis of the College of Fine Arts Emissions and Community Engagement (1/24-5/24)
- Report and presentation on the overall carbon footprint of the College of Fine Arts
- Discussion of potential reduction strategies based on observed Scope 1-3 emissions

Landscape Analysis of the University of Texas at Austin & its Peer Institutions (8/23-10/23)
- Group analysis of peer institution(s) GHG emissions measurement, strategies, and community engagement, and discussed sustainable greenhouse gas emission planning for UT Austin

SKILLS

Technical: R + RStudio, Web Design, Python, GitHub, Data Analysis, Reproducible Workflows
Certifications: Advanced Analytics in R For Data Science, Big Data and the Environment, Carbon Footprinting, Women in STEM (WiSTEM) Externship
Conferences: Environmental Data Science Summit (2/25)