

Justin Tse

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EDUCATION

- Expected May 2025 **Master of Landscape Architecture**
University of California, Berkeley
Department of Landscape Architecture and Environmental Planning
Advisor: Professor Danielle Z. Rivera
- September 2021 - June 2023 **Bachelor of Arts in Environmental Studies**
University of California, Santa Barbara
Department of Environmental Studies
- September 2019 - June 2021 **Associate of Arts**
Edmonds College, Lynnwood

RESEARCH EXPERIENCE

- June 2024 - Present **Graduate Student Researcher**
UC Berkeley - Berkeley, CA
- Develop a pipeline to facilitate real-time air quality analysis and mapping using ArcGIS Velocity and Online Notebook
 - Design a public-facing app using ArcGIS Dashboard and Experience Builder to enable mobile phone users to understand different levels of air pollution exposure
- February 2024 - Present **Graduate Student Researcher**
UC Berkeley - Berkeley, CA
- Lead and supervise 2 undergraduate research assistants on data processing tasks and the creation of a public-facing app
 - Co-develop a pipeline using Python and GEE to investigate the statistical and seasonal correlation between air pollution and surface temperature among 50+ major U.S. cities
 - Create a pipeline to analyze and aggregate the monthly temperature and PM2.5 data acquired from ground sensors and provide a customized report monthly to inform Stockton communities about their exposure to heat and air pollution
- March 2023 - October 2023 **Undergraduate Researcher**
UCSB Sustainability - Santa Barbara, CA
- Analyzed the campus-wide survey to identify and synthesize housing and food insecurity trends, correlations, and variations across AANHPI communities
 - Conducted, transcribed, and coded 10 interviews to collect qualitative data on AANHPI students' experience regarding commuting and campus basic needs services
 - Work collectively with other researchers to develop a policy brief and brainstorm ideas to advise the task force on supporting AANHPI students in basic needs efforts
- April 2023 - June 2023 **Research Assistant**
UC Santa Barbara - Santa Barbara, CA

- Collected and analyzed data from sources, collection, and databases to facilitate in-depth research on ocean equity and Chumash Heritage National Marine Sanctuary
- Assisted with the oral history project by conducting literature reviews and transcribing interviews with the Chumash community
- Attended relevant seminars, lectures, and events to collect qualitative data from different stakeholders

WORK EXPERIENCE

November 2023 - **Graduate Student Intern**

Present *City of San Jose - San Jose, CA*

- Recreate department-wide internal GIS viewers using ArcGIS Experience Builder for park planning and budget analysis
- Conduct city-wide park quality analysis based on TPL's quality scheme to reinforce the 10-minute walk initiative and strategize parkland development and investment
- Support spatial data management such as enterprise layer production and integration

November 2023 - **Communications Intern**

Present *Center for Creative Land Recycling - Berkeley, CA*

- Responsible for multimedia content creation through drafting newsletters and editing the official website regularly to maintain content consistency and quality, and to deliver timely information for effective external communication
- Create 2 to 3 videos and multiple educational materials monthly to promote brownfield redevelopment and engagement

December 2023 - **Cal Zero Waste Project Coordinator**

May 2023 *UC Berkeley - Berkeley, CA*

- Spearhead the deployment of reusables across the campus community by delegating respective tasks to staff associates and coordinating with food ware providers, university staff, and the City of Berkeley
- Assist with dishwashing capacity research on campus to identify potential sites for dishwasher deployment
- Develop strategic plans and schemes collectively to promote the implementation of zero-waste projects and enhance their operations

June 2023 - **OCS Mandarin Book Drafting Intern**

August 2023 *Environmental Defense Fund - San Francisco, CA*

- Summarized and translated the methodology and findings of methane emission analysis projects and research into Chinese
- Ideated and developed infographics, diagrams, maps, and illustrations using Adobe Creative Suite to enhance visual clarity and the efficiency of content delivery
- Developed a book template on Microsoft Word to streamline the formatting process

January 2023 - **Marketing Intern**

April 2023 *Wine To Water - Boone, NC*

- Researched and analyzed WTW's audiences, social media engagement, public image, and market to gather market information
- Created marketing materials including short videos, reels, graphics, and manuals to increase social media presence and disseminate information to stakeholders
- Assisted with marketing project management and digital asset management to enhance project efficiency and content accessibility

October 2022 - February 2023	Media Coordinator <i>Don't Cage Our Ocean - Santa Barbara, CA</i> <ul style="list-style-type: none"> - Developed strategic plans and identified media to connect with to increase community engagement and expand the campaign - Coordinated volunteer events and activities, including petitioning and phone-banking - Participated in community events to engage with stakeholders and educate them about the social and environmental impacts of aquaculture
July 2022 - December 2022	Research and Communication Intern <i>U.S. Green Chamber of Commerce - Solana Beach, CA</i> <ul style="list-style-type: none"> - Curated online content for the Global Climate Pledge project to promote the project and enhance environmental awareness - Managed social media accounts and developed strategic plans to increase content reach - Identified and communicated with potential partners to establish partnerships
June 2022 - September 2022	Urban Forestry Restoration Intern <i>UCSB Your Children's Tree - Santa Barbara, CA</i> <ul style="list-style-type: none"> - Conducted weekly tree assessments for 50+ trees to inspect tree health and remedy potential threats - Assisted with other native species and forest restoration projects at YCT to expedite the North Campus Open Space Project

PROJECT HIGHLIGHT

Spring 2024	Green Space as Indicator of Urban Health: Evaluating its Changes in Hong Kong Access as Empowerment: Restoring Trust and Connection with the Pajaro River Yeoncheon Imjin River Biosphere Reserve Vision Plan
Fall 2023	California Tiger Salamander GIS-based Habitat Assessment in Central Valley, California
Winter 2023	Campus Point Faculty Housing Environmental Impact Report (Aesthetics) GIS Land Suitability Analysis - <i>Urban PV Solar in the City of Seattle and Austin</i>
Fall 2022	Environmental Short Film - "Awake"

Competition

Spring 2024	2024 APA Student Planning and Design Competition (<i>Reclaiming Nicollet: the People and the Place</i>) – Runners Up
Spring 2024	2024 ULI Hines Student Competition (<i>Emerald Nexus</i>)

UNIVERSITY SERVICE

2023 - 2023	Mentor , UCSB Transfer Student Mentoring Program
2022 - 2023	Route Rider , UCSB Associated Student Recycling
2021 - 2022	Volunteer , UCSB Green House Garden Project

COMMUNITY INVOLVEMENT

2022 - 2023	Mapping Volunteer , Humanitarian OpenStreetMap Team
2022 - 2023	Volunteer , Silicon Valley Alliance Church
2021 - 2023	Photographer , Daily Nexus
2022 - 2023	Historian , UCSB Hong Kong Student Association
2022 - 2023	Graphic Designer , UCSB International Student Association

2021 - 2022 **Activity Director**, UCSB International Student Association
2021 - 2021 **Volunteer**, UCSB CALPIRG

CERTIFICATION

LEED Green Associate, *GBCI*

Graduate Certificate in Geographic Information Science and Technology (*In progress*), *UC Berkeley*

ADDITIONAL TRAINING

Spatial Data Science: The New Frontier in Analytics offered *by Esri Academy*

Imagery in Action offered *by Esri Academy*

Regression Analysis Essentials offered *by Esri Academy*

PROFESSIONAL MEMBERSHIP

American Planning Association (APA)

American Society of Landscape Architects (ASLA)

Associate of Environmental Professionals (AEP)

U.S. Green Building Council (USGBC)

SKILLS

Technical writing: CEQA, EIR

Graphic design: Adobe Illustrator, Adobe Photoshop, Canva

Programming: Python, JavaScript,

Other: Microsoft Office Suite, ArcGIS, AutoCAD, Rhino, SketchUp, Zoom, Google Earth Engine

LANGUAGE PROFICIENCIES

Cantonese: Fluent

Mandarin: Proficient

English: Proficient