

EDUCATION

Pomona College – Claremont, CA

May 2024

Bachelor of Arts in Environmental Analysis

- Focus in Sustainability and the Built Environment, Transportation and Urban Planning
- Relevant coursework: Case Studies in Sustainable Design, Green Urbanism, Modern Architecture and Sustainability, Bicycle Revolutions

School for International Training – Rabat, Morocco

January to May 2023

Semester Abroad - Morocco: Multiculturalism and Human Rights

- Capstone Research: “How Transportation Infrastructure is Accessed and Politicized in Morocco”

WORK EXPERIENCE

Kimley-Horn – Sacramento, CA

September 2024 to Present

Planning Analyst - Forecasting, Analytics, and Sustainable Transportation

- Provided data-driven analysis and recommendations for land-use and transportation planning in the development of long-range planning documents, including Regional Transportation Plans (RTPs), Congestion Management Programs (CMPs), General Plans (GPs), Transportation Master Plans (TMPs).
- Applied 4-Step and Activity-Based Travel Demand Models (TDMs) for the implementation of Transportation Impact Fee and VMT Banking programs, as well as project-level CEQA analysis.
- Developed software for automating the development of Agent-Based TDMs to assess multimodal network performance during emergency evacuation scenarios (wildfires, flooding, tsunami events), in compliance with California’s SB-99 and AB-747, leveraging OpenStreetMaps, Census, and other open source datasets.
- Built and updated transit models in STOPS forecasting software for FTA Capital Improvement Grant applications and to assess project-level ridership generation.
- Conducted novel research assessing the environmental impact of affordable housing policies, including VMT mitigation through ADU-inclusive development and travel patterns for households affordable to low-income renters.

Massachusetts Department of Transportation – Boston, MA

July 2023 to June 2024

Rail Division Contracted Student Intern

- Collaborated with MA State Universities, providing technical and managerial support for greater than \$1.9 million in USDOT SMART grant project funding
- Researched the viability of drone-assisted rail inspection through literature review and field testing
- Developed spatial datasets and visuals for rail safety analysis using drone-collected LiDAR data
- Reviewed land-use applications for properties containing state rail RoWs and compiled response recommendations for the MA Secretary of Transportation

SKILLS, CERTIFICATIONS, AND MEMBERSHIPS

- | | |
|---|--|
| • Transportation Planning <ul style="list-style-type: none">◦ RTPs, GPs, TMPs, CMPs, CEQA | • Web-Based and Client-Side Software Development |
| • Land Use Planning <ul style="list-style-type: none">◦ Site selection, zoning, policy analysis | • SQL Querying |
| • Travel Demand Modeling <ul style="list-style-type: none">◦ TransCAD, CUBE, MATSim | • ESRI Experience Builder/Web Suite |
| • Geospatial Analysis <ul style="list-style-type: none">◦ Python, R, ArcGIS Pro | • Microsoft Suite |
| • Transit Forecasting (Certified for Transit Project Planning by FTA) | • Community Engagement |
| | • Visual Storytelling |
| | • Technical Writing |
| | • Policy Research |
| | • ITE Western District Member |