

### Keri L. Yin | Associate II



#### EDUCATION

- University of California, San Diego
  - Bachelor of Science, Structural Engineering, 2014
  - Master of Science, Structural Engineering, 2016

#### PRACTICE AREAS

- Structural Analysis/Computer Applications
- Concrete Structures
- Wood Structures
- Structural Metals
- Historic Preservation
- Roofing and Waterproofing

#### PROFESSIONAL AFFILIATIONS

- Structural Engineers Association of Southern California (SEAOSC)

#### CONTACT

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#### EXPERIENCE

Keri Yin is experienced in the investigation, evaluation, and repair of new and existing structures. Since joining WJE in 2017, Ms. Yin has performed investigations and analysis on steel, concrete, and wood structures. To aid in understanding the behavior of complex structures, she has utilized computer analysis software on projects. In her time with WJE, Ms. Yin has also gained experience in assessment of building envelopes for historic buildings and new construction, provided construction administration services for the execution of repair designs and has participated in the investigation of waterproofing systems.

Prior to joining WJE, Ms. Yin obtained her bachelor's and master's degrees in structural engineering from the University of California, San Diego (UCSD). During her time at UCSD, she focused on structural analysis and design of steel and concrete civil structures subjected to seismic activity. Ms. Yin developed and tested a microconcrete mix to be used to create small scale models for testing. She utilizes these experiences for projects at WJE to assess the capacity of existing structures and to confirm the validity of repair designs.

#### REPRESENTATIVE PROJECTS

##### Structural Analysis/Computer Applications

- Aloha Stadium - Honolulu, HI: Seismic structural safety review of existing stadium; design and computer modeling of structural upgrades
- Rialto Unified School District - Rialto, CA: Seismic and wind structural peer review of steel solar array canopy
- Post-Explosion Assessment - Los Angeles, CA: Assessment of structural members for explosion-related damage
- California State University, Long Beach Psychology Building: Computer modeling and analysis of curtainwall window system
- Aransas County Airport - Fulton, TX: Analysis of hangar structures and foundations due to hurricane-related damage
- 4401 Wilshire - Los Angeles, CA: Computer modeling and structural analysis per ASCE 41 guidelines of non-ductile concrete multi-story building

##### Concrete Structures

- Santa Ana Federal Building - Santa Ana, CA: Construction observation of repair of deteriorated precast architectural concrete panels
- The Promenade at Rio Vista Apartments - San Diego, CA: Construction administration and observation of retaining wall repair

##### Wood Structures

- Nicklaus Course Maintenance Building - La Quinta, CA: Condition assessment and analysis of metal-plate-connected wood trusses
- Wood-Framed Warehouses - Los Angeles, CA: Assessment, analysis, and repair design of wood-framed roofs at warehouses across the city of Los Angeles.
- Wood-Framed Elevated Balconies - Southern California: Condition assessment and repair design of wood framing of exterior decks and stairs exposed to moisture

##### Structural Metals

- Wilshire Grand Spire - Los Angeles, CA: Corrosion assessment of steel sail structure

##### Historic Preservation

- San Juan Capistrano Substation - San Juan Capistrano, CA: Building envelope assessment and creation of rehabilitation documents
- Richard H. Chambers Courthouse - Pasadena, CA: Evaluation of wood-framed windows

##### Roofing and Waterproofing

- 800 North Brand Boulevard - Glendale, CA: Curtain wall assessment and water intrusion investigation
- Avant South Park Apartments - Los Angeles, CA: Water intrusion investigation and building envelope assessment of mixed-use building
- East Corson Street - Pasadena, CA: Water leak investigation of paved plaza deck and planters