

November 29, 2017

Amit Kothari  
Technical Committee Chair  
ITE Western District

**RE:** 2018 Data Collection Project Proposal

Dear Mr. Kothari,

Thank you again for this opportunity to submit a proposal for the Institute of Transportation Engineers (ITE) Western District 2018 Data Collection Project. Our student chapter always seeks to provide our members with opportunities to gain hands on experience and putting to practice our university's motto "Learn by Doing."

Enclosed is California State Polytechnic University, Pomona Institute of Transportation Engineers Student Chapter's (ITE CPP) proposal to collect trip generation and parking demand data at the Staybridge Suite in Anaheim, CA. A resort was chosen for our site because of the limited availability of data for this type of land use. We have onboard our mentorship team Zaki Mustafa who has held all leadership roles in ITE and John Thai, Principal Transportation Engineer for the City of Anaheim to help us utilize the City's TMC for data collection. ITE is also pleased to have invited our school's Women in Transportation Seminar (WTS) student chapter to participate with us in this project. We believe allowing more opportunities to help encourage women to enter the transportation engineering field will be very beneficial to the industry.

We are confident that our student chapter can submit accurate and professionally prepared data. Our goal through this project is to start building a relationship with our WTS student chapter, provide students with a hands-on project, and to use the funds to participate in the 2018 Student Leadership Summit (SLS) at Oregon State University, and to help students attend the 2018 Western District Annual Meeting in Keystone, Colorado.

We appreciate your consideration for this proposal and look forward to hearing from you soon. Feel free to reach me by email at [itecalpolypomona@gmail.com](mailto:itecalpolypomona@gmail.com) or by phone at (562) 440-8123.

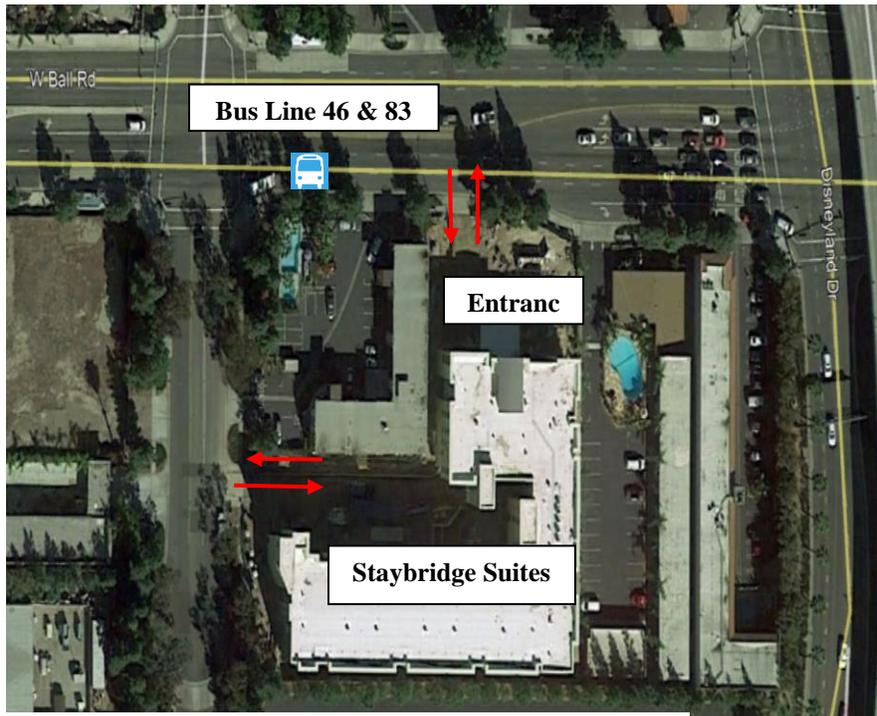
Sincerely,

Bryan Esparza  
President  
ITE CPP Student Chapter

Xudong Jia, Ph.D., P.E.  
Mentor

## 1. Data Collection Proposal Scope:

It is the aim of this proposal to conduct a trip generation study of the Staybridge Suites located in Anaheim, CA at 1050 W. Ball Road, 92802. The hotel is located 0.2 miles away from Disneyland and is 0.61 miles away from the I-5 Highway. We are currently finalizing safety agreements with the hotel manager to obtain permission to conduct research on their property. Staybridge Suites is located on a 56,000-square foot lot and has gross floor area of 80,000-square feet. The number of parking stalls are 103. 90 stalls are in a parking garage underneath the hotel and 13 are uncovered on the property. There is no on-street parking at this location. The hotel has 126 rooms and total number of employees will be shared with us by the hotel manager upon the hotel's final approval for the study. We have identified two local bus routes that have bus stops 140 feet from the hotel. Bus line 46 travels East-West from Los Alamitos to Orange. Bus line 86 travels North-South from Anaheim to Laguna Hills. Both lines have bus stops at Disneyland.



**Figure 1. Location of data collection at the Staybridge Suite**

There are two main entrances illustrated in Figure 1. It is our plan to have a team of 8 students collect data in 15-minute intervals from 7am-7pm on a Friday, Saturday, and Sunday. These three days will allow a greater number of students to participate along with capturing peak business hours, which occur on the weekend. Access to parking is only through the two main entrances and through the two garage openings on the property. The students taking counts at the hotel entry will also have line of sight to the bus stop allowing transit data to be captured. Two students will act as floating “breakers” allowing for individuals counting to take short rest breaks and lunch.

Trip generation data will consist of transit trips, motor vehicle trips, and separate counts for trucks, large commercial vehicles, motorcycles, bicycles, and pedestrian. Parking demand data will consist of number of observed parking stalls occupied in 15-minute intervals and separate parking counts of all other types of vehicles.

We will also be receiving assistance from the Anaheim Traffic Management Center (TMC) with the help of our mentor, John Thai. This resource will provide us access to their CCTV cameras to verify total counts of vehicles and transit trips on W Ball Rd during our data collection periods.

## 2. Mentoring:

To be guided by professional knowledge and experience, mentoring will be provided by the following professionals: Xudong Jia, current Chair of the Civil Engineering Department at Cal Poly Pomona providing project oversight, Wen Cheng, current ITE CPP faculty advisor and Associate Professor at Cal Poly Pomona will provide guidance during data processing, Zaki Mustafa, retired Principal Transportation Engineer for LADOT and has served all levels of ITE leadership will provide management support, and John Thai, Principal Traffic Engineer for the City of Anaheim will provide resources to help collect data through the city's TMC.

**3. Schedule:**

**Table 1: Work Schedule**

<b>Date</b>	<b>Work to be Completed</b>
December 29, 2017	Selection of Awarded Grants
February 9, 2017 - February 11, 2017	Data Collection
March 26, 2017	Submit Draft Report, Summary Table, and Data Forms
April 16, 2017	Committee Completes Review of Draft Report and Data
April 30, 2017	Submit Final Report, Summary Table, and Data Forms
May 14, 2017	Upload data to the ITE's online data submittal portal

**4. Level of Effort:**

To incorporate Cal Poly Pomona's hands-on curriculum to this project, students from the technical elective course *CE-429 & CE-429 Lab: Traffic Engineering*, will assist ITE members collect data. This course will have a new opportunity to allow their students to collect traffic count data at the nearby intersections to create Synchro models and determine level of service (LOS) during AM/PM peak hours. Training for CE-429 students, ITE members, WTS members, and ITE officers will be two one-hour group sessions on different days. The data collection process will require 36 hours (12 hours each day). Data processing is estimated to require 30 hours. Report generation will approximately require 15 hours to complete. Total estimated work amounts to 83 person-hours.

**5. Project Management:**

*Student Coordinator:* Bryan Esparza, President, Cal Poly Pomona ITE Student Chapter. 14809 Seaforth Ave, Norwalk, CA 90650. Email: itecalpolypomona@gmail.com Phone: 562.440.8123.

*Mentor:* Xudong Jia, Ph.D, P.E., 3801 West Temple Ave, Pomona, CA 91768. Email: xjia@cpp.edu Phone: 909.869.4312

*Faculty Advisor:* Wen Cheng, Ph.D., P.E., T.E., P.T.O.E., 3801 West Temple Ave, Pomona, CA 91768. Email: wcheng@cpp.edu Phone: 909.869.2957

To further the idea of mentoring and student-professional connection the data collection grant funds will be used to help cover the cost of our confirmed ITE CPP members attending 2018 SLS at Oregon State University. Any remaining funds will be used to help cover the cost and increase attendance to the 2018 Western District Annual Meeting in Keystone, Colorado.

**6. Agreement to Hold Harmless:**

The California State Polytechnic University-Pomona ITE student chapter holds harmless and indemnifies the ITE Western District from any and all liability associated with the conduct and completion of this proposal, data collection and associated activity.