Hank (Jung-Han) Wang

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Summary	**Data science enthusiast with a Ph.D. degree in transportation data analysis and a master degree in statistical computing. Had over 5 years of intensive hands-on experiences on data cleaning and statistical analysis including clustering, regression, time series, and machine learning to address challenging problems using R, SAS, Hadoop, SQL, and Python. Strong record of accomplishments through delivering actionable results and consistently providing data-driven solutions.**

EDUCATION

Doctor of Philosophy	**Civil Engineering**	**2016**
Transportation Data Analysis	**University of Central Florida, Orlando, Florida**	
Master of Science	**Statistical Computing**	**2016**
Data Mining Track	**University of Central Florida, Orlando, Florida**	
Master of Science	College of Engineering	2012
Transportation Engineering	California State University at Pomona, Pomona, California	
Bachelor of Business Administration	School of Management	2008
Transportation Communication Management	National Cheng Kung University, Taipei, Taiwan	

PROFESSIONAL QUALIFICATIONS

• **Statistics Analysis**	• **SAS/R/Python**	• **SQL/ SPSS/JMP**
• Hadoop/Spark	• Tableau/ggplot	• Transportation Data Analysis
• Access/PP/Word/Excel	• Slack/Trello/Quip	

PROFESSIONAL EXPERIENCE

Research Assistant	University of Central Florida, Orlando, FL	Aug 2012 – Current

Led a team to develop statistical models for roadway safety using R and SAS; proactively drafted a proposal from the initial idea and granted $250,000; was in charge of multiple projects from Federal Highway Administration (FHWA) and Florida Department of Transportation (FDOT)

Statistical Modeling
- Developed a comprehensive feature selection function in Federal Highway's project based on statistical and engineering concept, the function significantly improved efficiency and saved 5 hours of manual model feature selection for each trial

Software Development
- Developed an R package for conducting comprehensive before-after studies (3 methods) and cross-section study (1 method) to fulfill FDOT safety project with graphical user interface using shiny package by RStudio

Traffic Engineering
- Published 5 journal articles and 8 presentations in the field of transportation data analysis, 1 traffic safety analysis report for Florida Department of Transportation (FDOT); utilized knowledge of signal design and roadway geometry design in ArcGIS along with data analysis; frequently utilized cutting edge data mining techniques such as random forests, neural networks, and logistic regression in SAS & R

Electrical Engineering Intern	Business Network Solution, City of Industry, CA	Jan 2011 – Dec 2011

Problem Solving
- Performed server set up, backup, and maintenance; solved network problems and performed remote and on-site support for 6 companies; improved the average time for problem resolution

PROFESSIONAL ASSOCIATIONS & AWARDS & INTERESTS & LANGUAGES

President-American Society of Highway Engineers, SAS Data Mining Certificate, Research Assistant at UCF	**2015**
Personal Insurance Representative License in Taiwan	2011
Varsity Basketball team member in undergrad, World Choir Games participant in Xiamen, China (Soloist and Manager)	2005
Fluent in: Mandarin	