Shile Zhang
shirleyzhang@knights.ucf.edu
linkedin.com/in/shile-zhang-e-i-b7609917b

CAREER SUMMARY

Two years of working experience from multiple funded projects, involving traffic safety under Connected Automated Vehicle (CAV) environment, data analytics, statistical analysis, and IoT device development.
Fluent in programming languages such as Python, and traffic software such as ArcGIS.
Dedicated and self-motivated professional, work cooperatively with others.
Strong verbal and written communication skills.

EDUCATIONS

University of Central Florida ***Orlando, FL, U.S.***

Ph.D. in Civil Engineering (Transportation) *Aug 2018-May 2021(expected)*

Graduates Certificate, SAS Data Mining *Aug 2018-Sep 2020*

Master of Science in Civil Engineering (Smart Cities) *Aug 2018-Apr 2020*

Southeast University ***Nanjing, China***

Bachelor of Science in Traffic Engineering *Aug 2012-Jun 2016*

SKILL AND SOFTWARE

Programming	Python, MATLAB, C++, SQL
Traffic software	AutoCAD, TransCAD, NADS MiniSim, ArcGIS
Statistical software	R, SAS
Other software	Microsoft Office, Latex

ORGANIZATIONS

UCF Smart and Safe Transportation Lab *Member*

Institute of Transportation Engineers (ITE) at UCF *Executive Board*

Woman in Transportation (Central Florida Chapter) *Member*

JOURNAL ARTICALS

Zhang, S., Abdel-Aty, M., Yuan, J., & Li, P. (2020). Prediction of Pedestrian Crossing Intentions at Intersections Based on Long Short-Term Memory Recurrent Neural Network. Transportation Research Record. https://doi.org/10.1177/0361198120912422.

Wu, Y., Abdel-Aty, M., Zheng, O., Cai, Q., **Zhang, S.**, (2020). Automated Safety Diagnosis Based on Unmanned Aerial Vehicle Video and Deep Learning Algorithm. Transportation Research Record. https://doi.org/10.1177/0361198120925808.

Zhang, S., Abdel-Aty, M., Cai, Q., Li, P., Ugan, J., 2020. Prediction of pedestrian-vehicle conflicts at signalized intersections based on long short-term memory neural network. Accident Analysis & Prevention. https://doi.org/10.1016/j.aap.2020.105799.

Zhang, S., Abdel-Aty, M., Wu, Y., Zheng, O., 2020. Modeling pedestrians' near-accident events at signalized intersections using gated recurrent unit (GRU). Accident Analysis & Prevention 148, 105844.

RESEARCH EXPERIENCES

Using Smartphone as On Board Unit (OBU) Emulator Implementation Study

Florida Department of Transportation *Oct 2018 – Sep 2019*

Task: Using a smartphone application and machine learning to send warning to drivers.

Connecting the East Orlando Communities Project (Phase I, Smart Garage)

Federal Highway Administration (FHWA) ATCMTD *Aug 2019 – Aug 2020*

Task: Using Raspberry Pi to identify empty parking spots and backing vehicles in the garage.

Improving Vulnerable Road Users' Safety Based on Computer-Vision Technologies (Phase I)

Florida Department of Transportation *Aug 2020 – Aug 2021*

Task: Predicting pedestrians' red-light crossing behaviors and safety conditions using CCTV videos.

HONORS AND AWARDS

ORC Doctoral Fellowship (stipend: $25,000) *Aug 2018*

University of Central Florida

Solving for Safety Visualization Challenge (team award) *Nov 2019*

U.S. Department of Transportation

UCF Graduate Presentation Fellowship *Jan 2020*

University of Central Florida

CERTIFICATIONS AND LICENSES

Coursera

Getting Started with AWS Machine Learning *Jun 2020*

https://www.coursera.org/account/accomplishments/certificate/V9SA78DBNJ29

Florida Board of Professional Engineers

Engineer [Intern] *Oct 2020*

https://account.ncees.org/rn/2057425-1334109-c629ac6

Coursera

Computer Vision Basics *Oct 2020*

https://www.coursera.org/account/accomplishments/certificate/9QUHWSP55J23