

1-Year Report for the 2022 Wendy Tao International Smart Cities Scholarship
Cheng-Kai Hsu

Since receiving the scholarship, I have been able to utilize the funds to further my research and initiatives in the realm of transportation concerning the road safety of on-demand food delivery (ODFD) workers/drivers. The financial support has allowed me to acquire the necessary resources, collaborate with experts, and implement innovative solutions to tackle the challenges faced by urban environments. With the scholarship's assistance, I have:

- Analyzed drone-assisted traffic videography and trajectory data to characterize the kinematic features of ODFD workers and compare them with those of non-ODFD drivers.
- Discovered that ODFD workers are subject to risk-taking, and these may be related to incentive structures employed by the ODFD platforms.
- Conducted a pilot study that employed GPS-tracking and environmental sensors to explore the relationship between driving behavior and heat exposure and incentive structure.



Overall, the Wendy Tao ISC Scholarship has been instrumental in accelerating my progress in the field of smart cities and sustainable transport. The recognition and support provided have not only boosted my confidence but have also opened doors to exciting collaborations and opportunities for impact. I am truly grateful for the committee's belief in my work and their commitment to advancing sustainable urban development.



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