

2024 COTA Board of Directors Student Position Candidate



Shuyi Yin

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Qualification/ Background

Shuyi Yin is currently a PhD student in the Civil and Environmental Engineering Department at the University of Washington (UW). He holds a Bachelor of Engineering degree in Environmental Engineering from Tsinghua University (2016), and two Master of Science degrees from Stanford University, in Civil and Environmental Engineering (2019) and in Statistics (2019), respectively. Shuyi now works as a research assistant in the Smart Transportation Applications and Research Lab (STAR Lab) at the UW, where he has worked on various projects, including an NCHRP project that updates capacity estimation methodologies in Highway Capacity Manual, and an FTA project that quantifies the benefits of collision avoidance technologies in transit use cases. Shuyi is the first author of multiple conference proceedings and journal papers. He has also won several awards since his PhD studies, e.g., best paper award from 2021 IEEE International Smart Cities Conference, Mobility Track Winner (representing the STAR Lab team) in the MetroLab Network Student Cup, Graduate Student Scholarship from ITE WA, etc.

Shuyi also assumes multiple leadership roles in social and academic services. At the UW, his roles included TA and predoctoral instructors for two Transportation Engineering courses, UW CEE Graduate Student Advisory Board (GSAB) member on the Undergraduate Education Committee, the president of UW ITE Student Chapter, the lab manager of the STAR Lab, reviewers of several academic journals, and student members for IEEE and ASCE. In addition, in his spare time, Shuyi also volunteers in a free online course organized by Stanford University, where he taught students coding in Python during the COVID-19 lockdown.

Envisioned Commitment

Since my membership four years ago, COTA has significantly enriched my academic life and helped my career planning: its research lightning talks introduced state-of-the-art research topics from my peers; its webinars discuss professional services and career paths; its E-news publishes new opportunities at journals and institutions. Benefiting from its services, I am highly motivated to contribute to COTA's growth and to serve the community in return. During my first office as the student chair in COTA BOD, I helped organize conferences and events, conducted a survey to understand young member's career development needs, and organized a webinar featuring three young professionals (Dr. Ziran Wang, Dr. Chen Feng, and Dr. Osama Osman). My goal for the second office is to build students' participation even stronger and connections even tighter. More specifically, if elected as the chair of student affairs, I am committed to

- Encouraging peer exchange in COTA student members, by promoting COTA-sponsored student programs and activities;
- Strengthening connections between COTA student members and professionals/faculties;
- Growing the body of student members, especially in transportation programs where Chinese faculties are rare;
- Collecting and sharing opportunities at COTA newsletters and E-news; and
- Helping organize COTA events, including conferences and webinars.

If elected, I will work closely with fellow members for COTA's future success. Please don't hesitate to contact me if there is any question for my application. Your support is highly appreciated.

Endorsement

Dr. Yinhai Wang
Dr. Heng Wei
Dr. Cong Chen