田纳西大学孙鹏远课题组博士招聘（数据科学与工程—智能交通与安全方向）

美国田纳西大学诺克斯维尔分校橡树岭创新研究院（The University of Tennessee Oak Ridge Innovation Institute UT-ORII）孙鹏远教授研究团队计划招募 2-3 名博士生，提供全额奖学金资助(含学费，医疗保险及足够的生活费)。计划 2025 年春季或秋季入学。该研究团队与橡树岭国家实验室以及位于 Chattanooga 的 MLK Smart Corridor Testbed 紧密合作，研究方向为智能交通领域，主要涵盖车联网技术下的自动驾驶系统、未来道路交通控制理论和方法、基于人工智能的交通数据采集和应用，交通安全相关的理论分析，以及交通对环境的影响。欢迎具有以下相关学科背景的本科或硕士生同学申请：交通运输工程，计算机科学与技术，控制科学与工程（均涵盖所在二级学科）。希望同学具有良好的编程和沟通能力，能适应较为自由、充满乐趣同时需要自我激励和勇于探索的学术环境，更希望可以一起合作，从出行效率和环境影响上，为未来交通带来突破乃至颠覆性的创新。

Where you'll study?
The University of Tennessee at Knoxville is the state's flagship institution offering comprehensive programs. UT Knoxville ranks in the top tier of public research universities, which is a major research institution that attracts more than $130 million in research awards annually.

UT manages Oak Ridge National Laboratory (ORNL) for the U.S. Department of Energy, teamed with Battelle, a global science and technology company. The state of Tennessee supports the UT-Oak Ridge partnership with major investments for facilities and world-class scientists. The university and ORNL share focus areas in neutron science, biological science, computational science, and materials science.

UT-ORII is leveraging UT and ORNL's best capabilities and resources to accelerate collaborative discovery, innovation and interdisciplinary graduate education; and to prepare the next generation of talents in areas of science, technology, engineering and mathematics (STEM). The institute's current convergent research areas include clean manufacturing and advanced materials, energy storage and transportation, circular bioeconomy systems, and radiopharmaceutical therapies.
(Ref :https://www.utk.edu/; https://www.ornl.gov/; https://www.utorii.com/)

About me
Dr. Pengyuan Sun will join UT-ORII as a research assistant professor in Fall 2024. He earns his Ph.D. at University of California, Irvine (2024) in Transportation System Engineering under supervision of Prof. R. Jayakrishnan, and got his bachelor's at Beijing Jiaotong University in 2018. More information about Dr. Sun's research can be found here: https://www.researchgate.net/profile/Pengyuan-Sun-2

Application instructions
For more information about the program and start your application, please visit:
https://bredesencenter.utk.edu/data-science/
You are welcomed to contact me (Dr. Pengyuan Sun) through Email (with title "PhD Application [your name]") at pengyuan_sun@hotmail.com. Please also attach following items in your email:

- Your CV
- Derive the trajectories of two vehicles approach and finally stop at an intersection from 10m/s, based on Newell's car-following model.
  (Give the code in Python; feel free to explore and introduce parameters that you think necessary)
- (optional) A brief research or personal statement (limit: 100 words)