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Ph.D. Research Assistant Positions

Dr. Pengfei (Taylor) Li's research group, referred to as ACTIONLAB, at the University of Texas at Arlington have openings for 1-2 fully funded Ph.D. students in Spring, 2023, including competitive stipends, tuition fee waiver, fringe, and medical insurance. The research areas include traffic signal systems simulation and design, ITS sensor prototyping, emerging connected vehicle data analytics and AI for transportation planning. Qualified candidates are expected to have one or more research skills as follows:

1. Sufficient sense of optimizations and mathematical programming (Gurobi or GAMS)
2. Sufficient programming skills in Python, C++ or full-stack.
3. Sufficient knowledge of big data analytics and machine learning
4. Decent knowledge of traffic operations and traffic signal systems and traffic simulation (VISSIM, SUMO, etc.)
5. A master's degree is required unless the applicant can immediately contribute to research

In particular, the qualified applicant must be detail-driven, self-motivated, and responsive. Please contact Dr. Li if you think you are interested and capable.

Some facts

- The research activities at ACTIONLAB are funded by USDOT university transportation center (UTC) program, local agencies, TxDOT and other state DOTs. Most research deliverables are for implementations, but the student members also work on fundamental research toward their theses and dissertations.
- A Ph.D. student publishes 2-3 journal papers every year beginning from the 2nd or 3rd year of their study. The Ph.D. study typically lasts 3.5~5 years.
- Students are funded to attend state and national conferences to present their research efforts
- The University of Texas at Arlington is an urban university and located in the Dallas-Fort-Worth metroplex in Texas, the 4th largest metropolitan area in US, with over 8 million diverse residents. It is only 20 minutes away from the DFW international airport which has non-stop flights to most cities in the US.
- The University of Texas at Arlington is a tier-1 (highest research activities) research university in the US according to the Carnegie Classification and holds the tier-1 status in Texas as the emerging research university in Texas

