JUN WANG

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Education

2022-present   **PhD candidate in Electrical Engineering**, *Washington University in St. Louis*, St Louis, MO.
Advisor: Prof. Yiannis Kantaros

2019–2021 :   **MSE in Robotics**, *University of Pennsylvania*, Philadelphia, PA.
Advisor: Prof. George J. Pappas and Hamed Hassani

2015–2019 :   **BS in Software Engineering**, *Sun Yat-Sen University*, Guangzhou, China.

2018 :   **Exchange Program, Computer Engineering**, *Sungkyunkwan University*, Seoul, Korea.

Publications

In Conference Proceedings

Jun Wang, Samarth Kalluraya, and Yiannis Kantaros. Deeplogic: Verification of compositional neural network controllers for temporal logic control objectives. In *2022 IEEE Conference on Decision and Control (CDC)*.

Research Experience

Washington University in St Louis

2021-present   **Verification of Compositional Control Skills for Temporal Logic Properties**.
- Designed verifiable compositions of NN controllers that yield system behaviors satisfying complex and long-term tasks captured by formal languages

GRASP Lab, University of Pennsylvania

2020-2021   **Model Based Robust Semantic Segmentation**.
- Investigated that most works have only focused on the robustness of image classification
- Tackled challenges on the robustness of 2D semantic segmentation under natural variations
- Implemented ResNet-based segmentation model with pyramid pooling as context information catcher
- Implemented model-based robust training algorithms with the help of domain adaptation methods
- Achieved higher prediction accuracy on Cityscapes dataset than PSPNet

Professional Experience

2021-2022   **Research Intern**, Schlumberger Doll Research Center, Schlumberger.
- Robotics & Sensor Physics Department
- Advisor: Dr. Tianxiang Su

Spring 2021   **Graduate Teaching Assistant**, University of Pennsylvania.
- CIS 519: Applied Machine Learning

2020-2021   **Graduate Course Grader**, University of Pennsylvania.
- ESE 547: Legged Locomotion
- ESE 512: Dynamical Systems
- ESE 500: Linear Systems

2018   **Software Engineer Intern**, Industrial and Commercial Bank of China.

2017   **Algorithm Engineer Intern**, GuangDong Poya Information & Technology Co., LTD..

Awards

2016-2017   **Scholarship for Academic Excellence**, *Sun Yat-sen University*, Guangzhou, China.