

Education

- 2022–present **PhD student 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 Yiannas 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.
- CIS519: 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.