

Logical Specifications

Programmatic Models

Applications

Research Problems

Learning for Control

- F1Tenth Car Racing
- F-16 CSAF

Regulated Domains

- Adaptive Therapies
- Financial Modelling

Scientific Discovery

- RNA Splicing
- Behavioral Neuroscience

Goal

Trustworthy Artificial
Intelligence

Synthesis of
Differentiable
Programs

Programmatic
Policy Learning

Programmatic
Regularization

Formally
Verified
Exploration

Programmatic Generative
Models

RL with
Temporal
Specifications

Quantitative Verification of
Policies



Ph.D. Research



Future Directions