

# 2019 "Verifiable, Control-oriented Learning on the Fly" MURI Kickoff Meeting

Dr. Fred Leve | February 19, 2019 | Arlington, VA 22203

Basic Research Innovation Collaboration Center (BRICC)  
4100 North Fairfax Drive, Suite 450 | Research B Room  
Arlington, VA 22203

## Agenda day - February 19, 2019

Time	Topic	Speaker
8:30	Registration	
9:00-9:15	PM's intro	Dr. Fred Leve
9:15-9:45	<a href="#">Verifiable, Control-oriented Learning on the Fly</a>	Ufuk Topcu
9:45-10:10	<a href="#">Learning Dynamical Systems with Side Information</a>	Amir Ali Ahmadi
10:10-10:20	<a href="#">Learning Lagrangian Dynamics</a>	Clarence Rowley
10:20-10:35	<a href="#">Learning Nonlinear Dynamics using Linear Regression</a>	Clarence Rowley
10:35-10:45	Q&A	
10:45-11:00	BREAK	
11:00-11:30	<a href="#">Learning Sparse Dynamics from Limited Measurements</a>	Rachel Ward
11:30-11:40	<a href="#">Learning Parsimonious Representations: A Systems and Controls Perspective</a>	Mario Sznaiar
11:40-11:45	Q&A	
11:45-1:00	LUNCH (catered)	
1:00-1:20	<a href="#">Interpolation and Approximation of Functions</a>	Charlie Fefferman
1:20-1:35	<a href="#">Verification with Data-driven Differential Inclusions</a>	Arie Israel
1:35-1:45	Q&A	
1:45-2:00	<a href="#">Myopic Control</a>	Ufuk Topcu
2:00-2:20	<a href="#">Verifiable Data-driven Control</a>	Mario Sznaiar

<b>2:20-2:40</b>	<a href="#">DSOS and SDSOS Optimization</a>	<b>Amir Ali Ahmadi</b>
<b>2:40-3:15</b>	Poster Session	
<b>3:15-3:35</b>	<a href="#">Hierarchical Strategies for Joint Learning and Control</a>	<b>Arie Israel</b>
<b>3:35-3:55</b>	<a href="#">Control on the Fly: First Toy Problems</a>	<b>Charlie Fefferman</b>
<b>3:55-4:00</b>	Q&A	
<b>4:00-4:45</b>	Discussion, Feedback, Wrap-up	
	<b>MEETING ADJOURN</b>	