



## MURI ML-SCOPE Kickoff

Date: Thursday, Jan 23<sup>th</sup>, 2020

Time: 9:00 AM – 5:00 PM

Location : Room 5-314 – [Highlighted zoom on MIT building 5](#)

Contact : Pierre Lermusiaux – [pierrel@mit.edu](mailto:pierrel@mit.edu)

Time:	Title:	Speaker
9:00 AM – 9:10 AM	Introductions	All attendees
9:10 AM – 9:30 AM	ML-SCOPE Overview	Prof. Pierre Lermusiaux and ONR
<b>Introductory Lectures and Tutorials</b> (~35 min + 10 min discussion)		
9:30 AM – 10:15 AM	Ocean Observations and Observational Data Sets from the CARTHE Program	Prof. Tamay Ozgokmen
10:15 AM – 11:00 AM	Gaussian Processes and Coresets	Prof. Tamara Broderick
<b>Break</b>		
11:15 AM – 12:00 PM	Ocean Modeling	Prof. Eric Chassignet
12:00 PM – 12:45 PM	Gaussian Processes, Bayesian Optimization and Sub-modularity	Prof. Stefanie Jegelka
<b>Lunch and Discussions</b>		
1:45 PM – 2:30 PM	Submesoscale Ocean Processes and Dynamics	Prof. Jim McWilliams
2:30 PM – 3:15 PM	Generative Statistical models and Adversarial Networks (GANs)	Prof. Larry Carin
3:15 PM – 3:45 PM	Reduced Order Models	Dr. Mickael Chekroun
<b>Break</b>		
3:50 PM – 4:30 PM	Bayesian Learning of High-Dimensional Dynamical Ocean Models	Prof. Pierre Lermusiaux
<b>Research Presentations and Plans</b> (~25 min + 5 min discussion)		
4:30 PM – 5:00 PM	Duke Research and Plans	Prof. Larry Carin
5:00 PM – 5:30 PM	For those interested, brief tour of MIT (Optional)	

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### ML-SCOPE Group Dinner

6:30 PM – 8:30 PM MIT Emma Rogers Room (Building 10, Room 340)



## MURI ML-SCOPE Kickoff

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Contact : Pierre Lermusiaux – [pierrel@mit.edu](mailto:pierrel@mit.edu)

Time:	Title:	Speaker
9:00 AM – 9:15 AM	Day 1 Recap	Prof. Pierre Lermusiaux, ML-SCOPE team, and ONR
<b>Research Presentations and Plans, Cont'd</b> (~25 min + 5 min discussion)		
9:15 AM – 9:45 AM	MIT-Jegelka Group Research and Plans	Prof. Stefanie Jegelka and Group
9:45 AM – 10:15 AM	MIT-Broderick Group Research and Plans	Prof. Tamara Broderick and Group
10:15 AM – 10:45 AM	FSU Research and Plans	Prof. Eric Chassignet and Dr. Olmo Zavala
<b>Break</b>		
11:00 AM – 11:30 AM	MIT-MSEAS Research and Plans	Prof. Pierre Lermusiaux and Mr. Chinmay Kulkarni
11:30 AM – 12:00 PM	UCLA Research and Plans	Prof. Jim McWilliams & Dr. Mickael Chekroun
12:00 PM – 12:30 PM	U. Miami Research and Plans & Prediction of drifter trajectories using artificial neural networks	Mr. Matt Grossi and Prof. Tamay Ozgokmen
12:30 PM – 1:00 PM	ML-SCOPE Year 1 Plans and Discussions	Prof. Pierre Lermusiaux, ML-SCOPE team, and ONR
<b>Lunch and Discussions, Adjourn</b>		

### Attendees

- MIT-MSEAS: Pat, Chris, Chinmay, Abhinav, Akis, Wael, Pierre (Lisa M.)
- RSMAS: Prof. Tamay Ozgokmen, Dr. Angelique Haza, and Matt Grossi
- UCLA: Dr. Mickael Chekroun, Dr. Kaushik Srinivasan (Prof. Jim McWilliams remotely)
- FSU: Prof. Eric Chassignet and Dr. Olmo Zaval
- Duke: Prof. Larry Carin
- MIT: Prof. Stefanie Jegelka, Hongzhou Lin, and Matthew Staib
- MIT: Prof. Tamara Broderick + 3 group members
- ONR: Dr. Behzad Kamgarparsi (Dr. Scott Harper remotely)