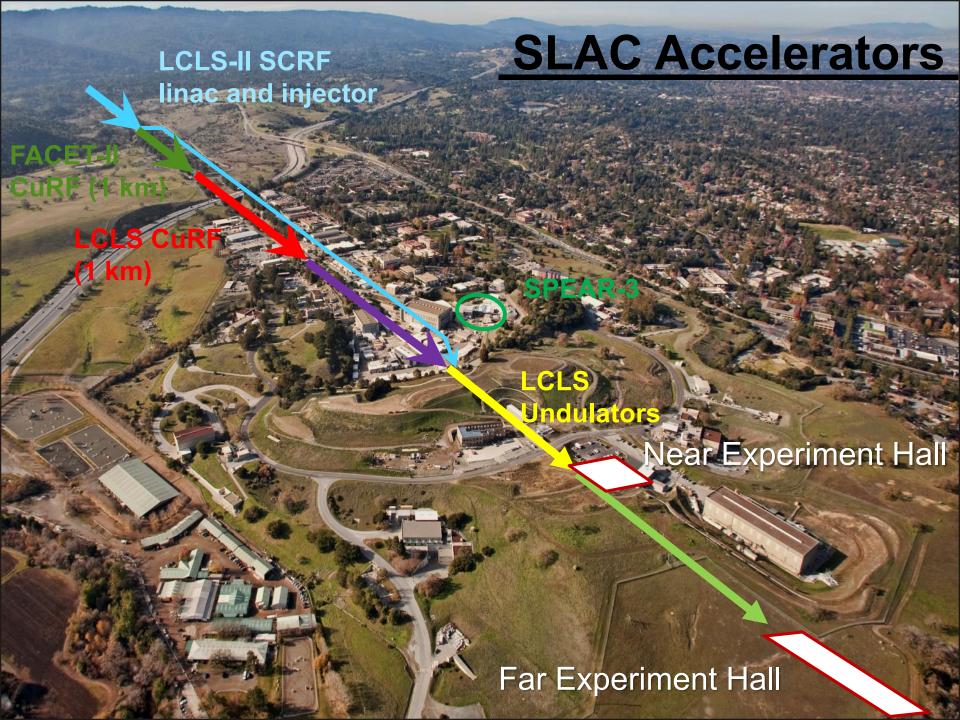
# Machine Learning Applications for Particle Accelerators

Tuesday, February 27 through Friday, March 2, 2018







## **Workshop Goals**



- Collect and unify the community's understanding of the relevant state-of-the-art ML techniques.
- Provide a simple tutorial of machine learning for accelerator physicists and engineers.
- Seed collaborations between laboratories, academia, and industry.
- Author a whitepaper explaining the current opportunities for ML techniques in particle accelerators, with a few illustrative examples. This whitepaper should explain why now is the time for the community to fully embrace ML alongside optimization as the modern way to aid particle accelerator design and operation.

## Web presence and communication



#### Workshop website

https://conf.slac.stanford.edu/icfa-ml-2018/

#### **Timetable**

https://indico.fnal.gov/event/16327/timetable

### **Slack Workspace Messaging**

http://accelerator-ml.slack.com

#### **Zoom Videoconferencing**

https://stanford.zoom.us/j/750616509

#### **Schedule**



**Tuesday**: Tutorial

Wednesday Morning: Facility Needs

Afternoon: Tuning

**Evening: Dutch Goose Reception** 

**Thursday** Morning: Simulations and Modeling

Afternoon: Prognostics, Tour

**Evening: Meyer-Buck House Reception** 

Friday Morning: Data Analysis and Summary

Afternoon: Whitepaper planning

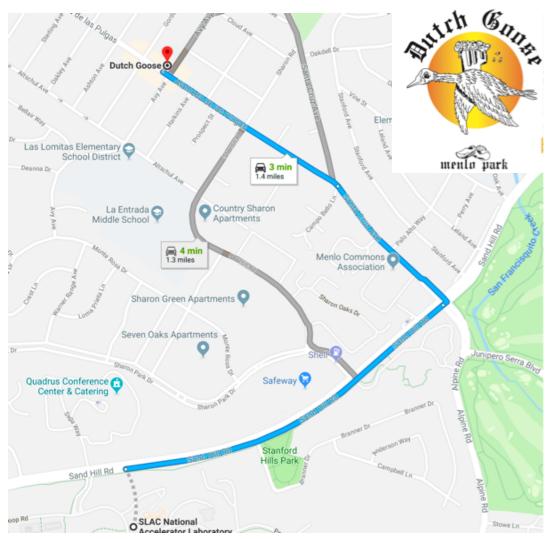
Every day Breakfast: 7:30-9pm

Lunch: noon-1:30pm

## Wednesday Reception: Dutch Goose



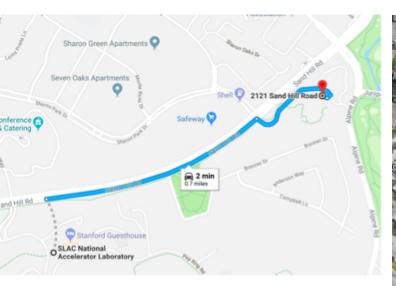
- 6-9pm
- Transportation on your own
- Food and Drinks provided
- 3567 Alameda de las Pulgas, Menlo Park, CA 94025
- http://www.dutchgoose.net
- Sports Bar
- Parking lot, street parking

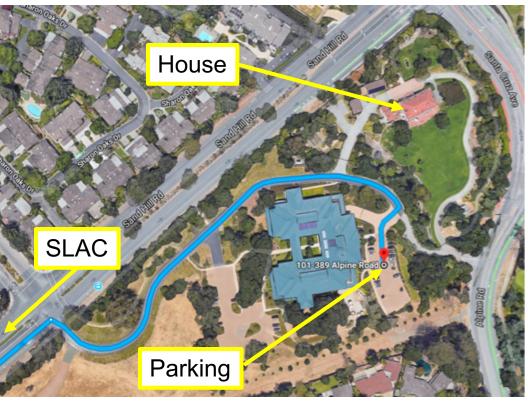


## **Thursday Reception: Meyer-Buck House**

SLAC

- 6-8pm
- Transportation on your own
- Drinks and hors d'oeuvres provided
- (optional) Parking at Hewlett Foundation: 2121 Sand Hill Rd, Menlo Park, CA 94025





## **Organizers**



### Local organizing Committee

Xiaobiao Huang xiahuang@slac.stanford.edu

Christopher Mayes cmayes@stanford.edu

Daniel Ratner dratner@slac.stanford.edu

Tor Raubenheimer tor@slac.Stanford.edu

#### Program Committee

Yunhai Cai, Erik Bründermann, Gianluca Valentino, Alexander Sheinker, Minjie Yan, Anke-Susanne Müller, Daniel Bowring, Ilya Agapov, Auralee Edelen, Kevin Li, Rasmus Ischebeck, Sandra Biedon, Xiaobiao Huang, Christopher Mayes, Daniel Ratner, Tor Raubenheimer

