SHORT COURSE

THE APPLICATION OF MACHINE LEARNING FOR AUTOMATED QUANTIFICATION OF BEHAVIOR

OCTOBER 9-12, 2023 | BAR HARBOR, MAINE & VIRTUAL

COURSE ORGANIZERS

Vivek Kumar, Ph.D., The Jackson Laboratory
Ann Kennedy, Ph.D., Northwestern University
Gordon Berman, Ph.D., Emory University
Ishmail Abdus-Saboor, Ph.D., Columbia University

HANDS-ON WORKSHOPS

BOOTCAMP
Computational Bootcamp for Biologists

ANIMAL TRACKING ALGORITHMS
DeepLabCut
SLEAP

UNSUPERVISED METHODS
MoSeq
MotionMapper

SUPERVISED METHODS
Advanced Statistical Modeling

Learn how to apply machine learning methods to animal behavior quantification and modeling.

Through a combination of scientific lectures and hands-on training, this short course will cover the fundamentals of quantitative behavior analysis, machine learning and data science.

Participants will gain an understanding of the theoretical basis of machine learning and its applications to quantitative animal behavior analyses, and receive training in experimental workflow, analysis tools, and algorithms for key biological applications. The course schedule also includes opportunities for collaborative networking between researchers and technology developers to drive innovation in animal behavior modeling.

Highlighted speakers include:

- Kristen Branson, Ph.D., Howard Hughes Medical Institute
- Megan Carey, Ph.D., Champalimaud Centre for the Unknown
- Josh Shaevitz, Ph.D., Princeton University
- John Tuthill, Ph.D., University of Washington

This course is appropriate for early career researchers from the fields of neuroscience, genetics and biomedical research.

For more information, visit jax.org/AutoBehavior.

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