The Temporal Dynamics of Learning Center

Building a Better Science of Learning: It's About Time!

WHY TIME MATTERS

When you learn new facts, interact with colleagues and teachers, experiment with new gadgets, or engage in countless other learning activities, timing plays a role in the functioning of your neurons, the communication between and within sensory systems, and the interactions between different regions of your brain. Timing is critical for learning at every level, from learning the precise temporal patterns of speech sounds, to learning appropriate sequences of movements, to optimal training and instructional schedules for learning, to interpreting the streams of social signals that reinforce learning in the classroom.

RESEARCH OPPORTUNITIES

We are always seeking talented students and post-doctoral scholars to conduct research in our labs, which are located at top universities in the U.S., Canada, London, and Australia. TDLC is committed to studying the role of time and timing in learning, across multiple scales, brain systems, and social systems. We provide our researchers and students with unique opportunities to collaborate between disciplines, producing innovative lines of inquiry with unprecedented results.

* Undergraduates: Please check out our *Research Experience for Undergraduates Program*: http://www.tdlc-reu.ucsd.edu/research/research-overview.html

NETWORK OF NETWORKS

TDLC is organized as a network of networks to focus on four major aspects of learning: Sensori-Motor Learning (SMN), Interactive Memory Systems (IMS), Perceptual Expertise (PEN), and Social Interaction Systems (SIN).

Research Disciplines

* Biology
* Brain Imaging
* Machine Learning
* Molecular Genetics
* Psychology
* Biophysics
* Cognitive Science
* Mathematics
* Neuroscience
* Robotics

Join us in our labs at the following institutions:

Brown University
Carnegie Mellon University
Children's Hospital of Philadelphia
University College London
New York University
Rutgers University
The Salk Institute
San Diego State University
University at Buffalo SUNY
UC Berkeley
UC San Diego
University of Colorado, Boulder
University of Pittsburgh
University of Queensland, Australia
University of Victoria
University of Washington
Vanderbilt University
Virginia Commonwealth University

TDLC Investigators, Disciplines, & Institutions

COGNITIVE SCIENCE AND COGNITIVE NEUROSCIENCE

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