

Interdisciplinary Graduate Program in

DYNAMICAL NEUROSCIENCE

UC Santa Barbara

Dynamical Neuroscience

is an interdisciplinary field focused on the study of how the nervous system generates perception, behavior, and cognition. It is a computational approach that goes beyond traditional structure-function mapping.

Its subdisciplines include molecular and cellular biology, genetics, computer science, neuroscience, artificial intelligence, nonlinear systems, statistical processes, physics, and aspects of experimental psychology. If you are majoring in any of the participating departments, or are interested in doing research in the following subfields, this exciting program may be right for you.



Diffusion Spectrum Image provided by Professor Scott Grafton, Director UCSB Brain Imaging Center, DVNS faculty member

PARTICIPATING DEPARTMENTS

Psychological & Brain Sciences
Physics
Molecular, Cellular & Developmental Biology
Chemical Engineering
Computer Science
Electrical & Computer Engineering
Mechanical Engineering

RESEARCH SUBFIELDS

Computational Neuroscience
Computational Cognitive Neuroscience
Network and Complexity Analyses
Signal Processing & Machine Learning
Computational Vision
Brain-Computer Interface



FOR MORE INFORMATION, PLEASE CONTACT

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