

Resource Summary Report

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University of California at San Diego Computational Neuroscience

RRID:SCR_001930

Type: Tool

Proper Citation

University of California at San Diego Computational Neuroscience (RRID:SCR_001930)

Resource Information

URL: <https://neurograd.ucsd.edu/handbook/prog-requirement/comp-neuro/index.html>

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Description: The Computational Neuroscience specialization is a new facet of the broader Neuroscience graduate program at UCSD. The goal of the specialization is to train the next generation of neuroscientists with the broad range of computational and analytical skills that are essential to understand the organization and function of complex neural systems. The specialization is intended for students with backgrounds in neuroscience, physics, chemistry, biology, psychology, computer science, engineering, and mathematics. This specialization allows Neuroscience students to concentrate on a focused program of rigorous course work in both the theoretical and experimental aspects of computational neuroscience. Students are encouraged to pursue thesis research that includes both an experimental and a computational component, often arranged by the student as a collaboration between two research groups. The program is focused on these major themes relevant for computational neuroscience research: - Neurobiology of Neural Systems - the anatomy, physiology, and behavior of systems of neurons, with emphasis on basic phenomenology. - Advanced Measurement Tools in Neuroscience - Advanced imaging and recording techniques reflecting the impact of experimental physics on neuroscience. - Algorithms for the Analysis of Neural Data - New algorithms and techniques for analyzing data obtained from physiological recording - Theoretical Basis for Collective Neural Dynamics - A synthesis of approaches from mathematics and physical sciences as well as biology will be used to explore the collective properties and nonlinear dynamics of neuronal systems. Sponsors: This program is supported by the University of California at San Diego.

Synonyms: UCSD CN

Resource Type: data or information resource, department portal, organization portal, portal

Keywords: engineering, algorithm, analytical, anatomy, behavior, biology, chemistry, computational, computer science, imaging technique, mathematics, neural system, neurobiology, neuron, neuronal system, neuroscience, physical science, physics, physiology, psychology, recording technique

Resource Name: University of California at San Diego Computational Neuroscience

Resource ID: SCR_001930

Alternate IDs: nif-0000-10504

Old URLs: <http://compneuro.salk.edu/>

Record Creation Time: 20220129T080210+0000

Record Last Update: 20260821T193632+0000

Ratings and Alerts

No rating or validation information has been found for University of California at San Diego Computational Neuroscience.

No alerts have been found for University of California at San Diego Computational Neuroscience.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.