

PROFESSOR THANOS SIAPAS

arrived on campus this past January. His research focuses on the study of the principles underlying learning and memory formation across distributed networks of neurons. Using techniques that allow monitoring of simultaneous activity of dozens of single neurons in freely behaving animals, he studies the structure of interactions between the hippocampus and neocortical brain areas and the role of these interactions in learning and memory. He also investigates the cellular and molecular basis of network interactions by ana-



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Assistant Professor of Computation and Neural Systems

lyzing the effects of pharmacological and genetic manipulations on the organization of ensemble neuronal activity. His experimental work is complemented by theoretical studies of network models and the development of tools for the analysis of multi-neuronal data.

Professor Siapas received a BS in Mathematics, a BS in Electrical Science and Engineering, an MS in Electrical Engineering and Computer Science, and a PhD in Electrical Engineering and Computer Science, from the Massachusetts Institute of Technology. Before joining Caltech, he conducted postdoctoral research in behavioral electrophysiology in Matt Wilson's laboratory at MIT.

Professor Siapas has a joint appointment in Caltech's Division of Engineering and Applied Science and Division of Biology. **E N G**

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