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Neurophysiologist. BA Biology, UCSD 1971; PhD, Neurosciences, UCLA 1976.

Professor of Radiology, Neurosciences and Psychiatry

Co-Director with Anders Dale, Multi-Modal Imaging Laboratory

Vice Chair for Basic Research, Neurosciences

Co-Director, T23 Pre- and post-doctoral training grant in Cognitive Neurosciences

Teaching: NEU257 Neuroanatomy, SOM276C fMRI advanced topics

MEG, EEG, fMRI, MRI, DTI

Intracranial recordings in humans (micro- and macro-electrode arrays)

Basic mechanisms of Sleep, Memory, Language

People with Epilepsy, Deafness, Williams' Syndrome

Harvard, Cleveland Clinic, New York University, University of Marseille

Vikash Gilja, Shadi Dayeh, Gert Cauwenberghs, Patrick Mercier (Engineering),

Maxim Bazhenov (Medicine), Rachel Mayberry (Linguistics), Joe Snider (INC),

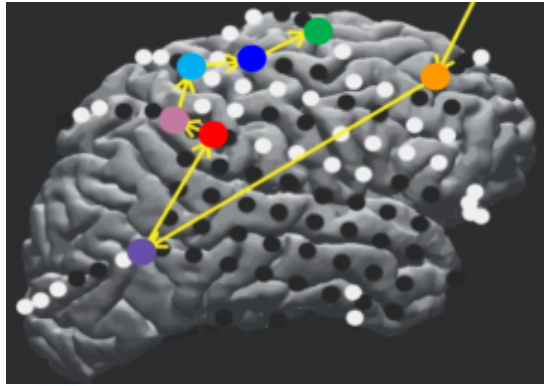
Don Hagler (Radiology), Terry Sejnowski (Neurobiology)

Rachel Mak-McCully, Tristan Davenport, Xiaojing Wu (postdocs)

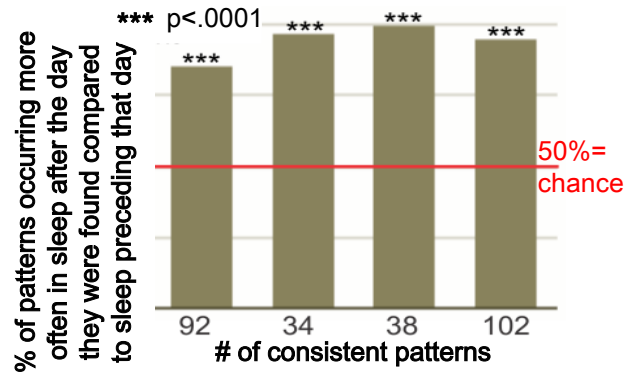
Xi Jiang, Erik Kaestner (graduate students)

NIH (NIMH, NIBIB, NICHD, NIDCD), ONR, UCSD

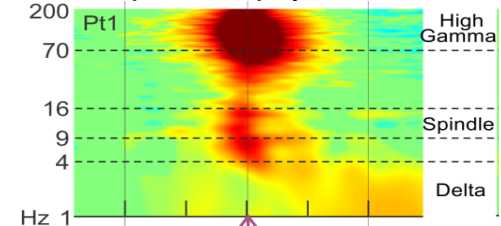
Reactivation of spontaneous cortical spatiotemporal activity patterns during sleep



Consistent spatiotemporal patterns of HGA peaks lasting ~1s were found during an entire day of waking, then sought in the 2 preceding and 2 following night time sleep periods.



Cortical spindle and delta during the putative replay events



Possible hippocampal sharp waves and ripples during the putative replay events

